

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

1/2012 veljača, 2012.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacрта hrvatskih norma, prijedloga za prihvatanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacрте hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

Tko u popisima normativnih dokumenata koji su objavljeni u ovom Oglasniku otkrije koju grešku, koja može voditi do krive primjene, moli se da o tome neodložno obavijesti Hrvatski zavod za norme, kako bi se mogli otkloniti uočeni propusti.

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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4.1	Cjenik hrvatskih norma	
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# Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 163/03) hrvatske norme priprema, izdaje i objavljuje Hrvatski zavod za norme, na prijedlog tehničkih odbora.

Hrvatske norme mogu nastati na ova četiri načina:

- prihvaćanjem stranih (međunarodnih/europskih/nacionalnih) norma uz prevođenje na hrvatski jezik (pp)
- prihvaćanjem stranih norma u izvorniku s hrvatskim ovitkom (po)
- prihvaćanjem stranih norma u izvorniku objavom obavijesti o prihvaćanju (pr)
- izradbom izvorne hrvatske norme (izv).

Oznaka načina prihvaćanja navedena je uz referencijsku oznaku hrvatske norme.

Hrvatske su norme zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

### HZN/TO 6, *Papir, karton i pulpe*

HRN EN ISO 534:2012 en pr  
Papir i karton — Određivanje debljine, gustoće i specifičnog obujma (ISO 534:2011; EN ISO 534:2011)  
Paper and board — Determination of thickness, density and specific volume (ISO 534:2011; EN ISO 534:2011)

HRN EN ISO 3035:2012 en pr  
Valoviti karton — Određivanje otpornosti na plošni pritisak (ISO 3035:2011; EN ISO 3035:2011)  
Corrugated fibreboard — Determination of flat crush resistance (ISO 3035:2011; EN ISO 3035:2011)

### HZN/TO 8, *Brodogradnja*

HRN EN 1495:2009/Ispr.1:2012 en pr  
Podizne platforme — Stupne radne platforme (EN 1495:1997+A2:2009/AC:2010)  
Lifting platforms — Mast climbing work platforms (EN 1495:1997+A2:2009/AC:2010)

### HZN/TO 22, *Cestovna vozila*

HRN ISO 2575:2012 en pr  
Cestovna vozila — Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010+Amd 1:2011)  
Road vehicles — Symbols for controls, indicators and tell-tales (ISO 2575:2010+Amd 1:2011)

HRS ISO/PAS 3930:2012 en pr  
Uređaji za mjerenje emisija ispuha vozila — Mjeriteljski i tehnički zahtjevi; mjeriteljsko provjeravanje i ispitivanje značajka (ISO/PAS 3930:2009)  
Instruments for measuring vehicle exhaust emissions — Metrological and technical requirements; Metrological control and performance tests (ISO/PAS 3930:2009)

HRN ISO 4000-1:2012 en pr  
Gume i naplatci za osobne automobile — 1. dio: Gume (milimetarski nizovi) (ISO 4000-1:2010)  
Passenger car tyres and rims — Part 1: Tyres (metric series) (ISO 4000-1:2010)

HRN ISO 4000-2:2012 en pr  
Gume i naplatci za osobne automobile — 2. dio: Naplatci (ISO 4000-2:2007)  
Passenger car tyres and rims — Part 2: Rims (ISO 4000-2:2007)

HRN ISO 4040:2012 en pr  
Cestovna vozila — Položaj ručnih upravljačkih naprava, indikatora i pokaznih svjetiljka u motornim vozilima (ISO 4040:2009)  
Road vehicles — Location of hand controls, indicators and tell-tales in motor vehicles (ISO 4040:2009)

HRN ISO 4141-4:2012 en pr  
Cestovna vozila — Višežilni spojni kabeli — 4. dio: Metode ispitivanja i zahtjevi za kabele u obliku zavojnice (ISO 4141-4:2009)  
Road vehicles — Multi-core connecting cables — Part 4: Test methods and requirements for coiled cable assemblies (ISO 4141-4:2009)

HRN ISO 4251-4:2012 en pr  
Gume (nizovi s oznakom PR ("ply rating")) i naplatci za poljoprivredne traktore i strojeve — 4. dio: Razredba i nomenklatura guma (ISO 4251-4:2010)  
Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 4: Tyre classification and nomenclature (ISO 4251-4:2010)

HRN ISO 4925:2012 en pr  
Cestovna vozila — Specifikacija tekućina za kočenje na nemineralnoj osnovi za hidraulične sustave (ISO 4925:2005)  
Road vehicles — Specification of non-petroleum-base brake fluids for hydraulic systems (ISO 4925:2005)

HRN ISO 4926:2012 en pr  
Cestovna vozila — Hidraulični sustavi kočenja — Referencijske tekućine na nemineralnoj osnovi (ISO 4926:2006)  
Road vehicles — Hydraulic braking systems — Non-petroleum-base reference fluids (ISO 4926:2006)

HRN ISO 4927:2012 en pr  
Cestovna vozila — Kapice od elastomera za cilindre na kotačima hidrauličnih kočnica s bubnjem kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 4927:2005)  
Road vehicles — Elastomeric boots for cylinders for drum type hydraulic brake wheel cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 120 °C max.) (ISO 4927:2005)

HRN ISO 4928:2012 en pr  
Cestovna vozila — Kapice i brtve od elastomera za cilindre hidrauličnih sustava kočenja kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 4928:2006)  
Road vehicles — Elastomeric cups and seals for cylinders for hydraulic braking systems using a non-petroleum base hydraulic brake fluid (Service temperature 120 °C max.) (ISO 4928:2006)

HRN ISO 4930:2012 en pr  
Cestovna vozila — Brtve od elastomera za cilindre hidrauličnih kočnica s diskom kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 150 °C) (ISO 4930:2006)  
Road vehicles — Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 150 °C max.) (ISO 4930:2006)

HRN ISO 6118:2012 en pr  
Cestovna vozila — Kapice i brtve od elastomera za cilindre hidrauličnih kočnica kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 70 °C) (ISO 6118:2006)  
Road vehicles — Elastomeric cups and seals for cylinders for hydraulic braking systems using a non-petroleum base hydraulic brake fluid (service temperature 70 °C max.) (ISO 6118:2006)

HRN ISO 6119:2012 en pr  
Cestovna vozila — Brtve od elastomera za cilindre hidrauličnih kočnica s diskom kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 6119:2006)  
Road vehicles — Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 120 °C max.) (ISO 6119:2006)

- HRN ISO 6310:2012 en pr  
Cestovna vozila – Kočničke tarne obloge – Metode ispitivanja tlačnim opterećenjem (ISO 6310:2009)  
Road vehicles – Brake linings – Compressive strain test methods (ISO 6310:2009)
- HRN ISO 6460-1:2012 en pr  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 1. dio: Opći ispitni zahtjevi (ISO 6460-1:2007)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements (ISO 6460-1:2007)
- HRN ISO 6460-2:2012 en pr  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 2. dio: Ciklusi ispitivanja i posebni uvjeti ispitivanja (ISO 6460-2:2007)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 2: Test cycles and specific test conditions (ISO 6460-2:2007)
- HRN ISO 6460-3:2012 en pr  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 3. dio: Mjerenje potrošnje goriva pri konstantnoj brzini (ISO 6460-3:2007)  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 3: Fuel consumption measurement at a constant speed (ISO 6460-3:2007)
- HRN ISO 6469-1:2012 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 1. dio: Sustav ponovljivog pohranjivanja energije u vozilu (RESS) (ISO 6469-1:2009)  
Electrically propelled road vehicles – Safety specifications – Part 1: On-board rechargeable energy storage system (RESS) (ISO 6469-1:2009)
- HRN ISO 6469-2:2012 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 2. dio: Sredstva za sigurnost rada vozila i zaštita od kvarova (ISO 6469-2:2009)  
Electrically propelled road vehicles – Safety specifications – Part 2: Vehicle operational safety means and protection against failures (ISO 6469-2:2009)
- HRN ISO 6519:2012 en pr  
Dizelski motori – Pumpe za ubrizgavanje goriva – Stošci za završetke vratila i glavine (ISO 6519:2004)  
Diesel engines – Fuel injection pumps – Tapers for shaft ends and hubs (ISO 6519:2004)
- HRN ISO 6546:2012 en pr  
Cestovna vozila – Prikupljanje podataka o nezgodi za vrednovanje značajka držanja osoba u vozilu (ISO 6546:2006)  
Road vehicles – Collection of accident data for evaluation of occupant restraint performance (ISO 6546:2006)
- HRN ISO 6550-3:2012 en pr  
Cestovna vozila – Obloženi tip žarnica sa stožastim sjedištem i njihovo kućište u glavi cilindra – 3. dio: M10 žarnica (ISO 6550-3:2009)  
Road vehicles – Sheath-type glow-plugs with conical seating and their cylinder head housing – Part 3: M10 glow-plugs (ISO 6550-3:2009)
- HRN ISO 6621-1:2012 en pr  
Motori s unutarnjim izgaranjem – Klipni prstenovi – 1. dio: Terminološki rječnik (ISO 6621-1:2007)  
Internal combustion engines – Piston rings – Part 1: Vocabulary (ISO 6621-1:2007)

### **HZN/TO 23, Traktori i strojevi za poljoprivredu i šumarstvo**

- HRN EN 836:2012 en pr  
Garden equipment – Powered lawnmowers – Safety (EN 836:1997+A4:2011)

- HRN EN ISO 4254-11:2012 en pr  
Agricultural machinery – Safety – Part 11: Pick-up balers (ISO 4254-11:2010; EN ISO 4254-11:2010)
- HRN EN 13739-1:2012 en pr  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 1: Requirements (EN 13739-1:2011)
- HRN EN 13739-2:2012 en pr  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 2: Test methods (EN 13739-2:2011)
- HRN EN ISO 22868:2012 en pr  
Šumarska mehanizacija – Kod za ispitivanje buke ručnih strojeva s motorima s unutrašnjim izgaranjem – Inženjerska metoda (2. stupanj preciznosti) (ISO 22868:2011; EN ISO 22868:2011)  
Forestry and gardening machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy) (ISO 22868:2011; EN ISO 22868:2011)

### **HZN/TO 25, Ljevarstvo**

- HRN EN 1371-1:2012 en pr  
Ljevarstvo – Ispitivanje tekućim penetrantima – 1. dio: Odljevci iz pješčanih kalupa, kokilni odljevci i niskotlačni odljevci (EN 1371-1:2011)  
Founding – Liquid penetrant testing – Part 1: Sand, gravity die and low pressure die castings (EN 1371-1:2011)
- HRN EN 1559-1:2012 en pr  
Ljevarstvo – Tehnički uvjeti isporuke – 1. dio: Općenito (EN 1559-1:2011)  
Founding – Technical conditions of delivery – Part 1: General (EN 1559-1:2011)
- HRN EN 1560:2012 en pr  
Ljevarstvo – Sustav označavanja želznog lijeva – Simboli materijala i odbrojčavanje materijala (EN 1560:2011)  
Founding – Designation system for cast iron – Material symbols and material numbers (EN 1560:2011)
- HRN EN 1564:2012 en pr  
Ljevarstvo – Izotermički poboljšani nodularni lijev (EN 1564:2011)  
Founding – Ausferritic spheroidal graphite cast irons (EN 1564:2011)
- HRN EN 12513:2012 en pr  
Ljevarstvo – Željezni lijevovi otporni na abraziju (EN 12513:2011)  
Founding – Abrasion resistant cast irons (EN 12513:2011)
- HRN EN 12680-3:2012 en pr  
Ljevarstvo – Ultrazvučno ispitivanje – 3. dio: Odljevci od nodularnog lijeva (EN 12680-3:2011)  
Founding – Ultrasonic testing – Part 3: Spheroidal graphite cast iron castings (EN 12680-3:2011)
- HRN EN 13835:2012 en pr  
Ljevarstvo – Austenitni željezni lijevovi (EN 13835:2012)  
Founding – Austenitic cast irons (EN 13835:2012)
- HRN EN 16079:2012 en pr  
Ljevarstvo – Vermikularni lijevovi (EN 16079:2011)  
Founding – Compacted (vermicular) graphite cast irons (EN 16079:2011)
- HRN EN 16124:2012 en pr  
Ljevarstvo – Niskolegirani feritni nodularni lijev za primjene na povišenim temperaturama (EN 16124:2011)  
Founding – Low-alloyed ferritic spheroidal graphite cast irons for elevated temperature applications (EN 16124:2011)

## **HZN/TO 28, Naftni proizvodi i maziva**

- HRN EN 16091:2012 en pr  
Tekući naftni proizvodi – Srednji destilati i metilni esteri masnih kiselina (FAME), goriva i mješavine – Određivanje oksidacijske stabilnosti brzom metodom ograničenog opsega (EN 16091:2011)  
Liquid petroleum products – Middle distillates and fatty acid methyl ester (FAME) fuels and blends – Determination of oxidation stability by rapid small scale oxidation method (EN 16091:2011)
- HRN EN 16135:2012 en pr  
Goriva za motorna vozila – Određivanje količine mangana u bezolovnim motornim benzinima – Metoda atomske apsorpcijske spektrometrije (FAAS) (EN 16135:2011)  
Automotive fuels – Determination of manganese content in unleaded petrol – Flame atomic absorption spectrometric method (FAAS) (EN 16135:2011)
- HRN EN 16136:2012 en pr  
Goriva za motorna vozila – Određivanje količine mangana u bezolovnim motornim benzinima – Metoda optičke emisijske spektralne analize s induktivno spregnutom plazmom (ICP OES) (EN 16136:2011)  
Automotive fuels – Determination of manganese content in unleaded petrol – Inductively coupled plasma optical emission spectrometry (ICP OES) method (EN 16136:2011)

## **HZN/TO 43, Akustika**

- HRN EN ISO 10140-1:2010/A1:2012 en pr  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 1. dio: Pravila primjene za određene proizvode – Amandman 1: Smjernice za određivanje indeksa zvučne izolacije spojeva s ispunama i/ili brtvama (ISO 10140-1:2010/Amd 1:2012; EN ISO 10140-1:2010/A1:2012)  
Acoustics – Laboratory measurements of sound insulation of building elements – Part 1: Application rules for specific products – Amendment 1: Guidelines for the determination of the sound reduction index of joints filled with fillers and/or seals (ISO 10140-1:2010/Amd 1:2012; EN ISO 10140-1:2010/A1:2012)

## **HZN/TO 44, Zavarivanje i srodni postupci**

- HRN EN 287-1:2012 en pr  
Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (EN 287-1:2011)  
Qualification test of welders – Fusion welding – Part 1: Steels (EN 287-1:2011)
- HRN EN ISO 3580:2012 en pr  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje čelika otpornih na puzanje – Razredba (ISO 3580:2010; EN ISO 3580:2011)  
Welding consumables – Covered electrodes for manual metal arc welding of creep-resisting steels – Classification (ISO 3580:2010; EN ISO 3580:2011)
- HRN EN ISO 3581:2012 en pr  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje nehrđajućih i vatrootpornih čelika – Razredba (ISO 3581:2003+Cor 1:2008+Amd 1:2011; EN ISO 3581:2012)  
Welding consumables – Covered electrodes for manual metal arc welding of stainless and heat-resisting steels – Classification (ISO 3581:2003+Cor 1:2008+Amd 1:2011; EN ISO 3581:2012)
- HRN EN ISO 4063:2012 en pr  
Zavarivanje i srodni postupci – Nomenklatura postupaka i referentni brojevi (ISO 4063:2009, Ispravljena verzija 2010-03-01; EN ISO 4063:2010)  
Welding and allied processes – Nomenclature of processes and reference numbers (ISO 4063:2009, Corrected version 2010-03-01; EN ISO 4063:2010)

- HRN EN ISO 4136:2012 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Poprečno vlačno ispitivanje (ISO 4136:2001; EN ISO 4136:2011)  
Destructive tests on welds in metallic materials – Transverse tensile test (ISO 4136:2001; EN ISO 4136:2011)
- HRN EN ISO 5173:2010/A1:2012 en pr  
Ispitivanja razaranjem zavara na metalnim materijalima – Ispitivanja savijanjem (ISO 5173:2009/Amd 1:2011; EN ISO 5173:2010/A1:2011)  
Destructive tests on welds in metallic materials – Bend tests (ISO 5173:2009/Amd 1:2011; EN ISO 5173:2010/A1:2011)
- HRN EN ISO 5178:2012 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Uzdužno vlačno ispitivanje metala zavara zavarenih spojeva nastalih taljenjem (ISO 5178:2001; EN ISO 5178:2011)  
Destructive tests on welds in metallic materials – Longitudinal tensile test on weld metal in fusion welded joints (ISO 5178:2001; EN ISO 5178:2011)
- HRN EN ISO 6947:2012 en pr  
Zavarivanje i srodni postupci – Položaji pri zavarivanju (ISO 6947:2011; EN ISO 6947:2011)  
Welding and allied processes – Welding positions (ISO 6947:2011; EN ISO 6947:2011)
- HRN EN ISO 9012:2012 en pr  
Oprema za plinsko zavarivanje – Ručni plamenici s usisavanjem zraka – Specifikacije i ispitivanja (ISO 9012:2008; EN ISO 9012:2011)  
Gas welding equipment – Air-aspirated hand blowpipes – Specifications and tests (ISO 9012:2008; EN ISO 9012:2011)
- HRN EN ISO 9015-1:2012 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Ispitivanje tvrdoće – 1. dio: Mjerenje tvrdoće elektrolučno zavarenih spojeva (ISO 9015-1:2001; EN ISO 9015-1:2011)  
Destructive tests on welds in metallic materials – Hardness testing – Part 1: Hardness test on arc welded joints (ISO 9015-1:2001; EN ISO 9015-1:2011)
- HRN EN ISO 9015-2:2012 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Ispitivanje tvrdoće – 2. dio: Ispitivanje mikrotvrdoće zavarenih spojeva (ISO 9015-2:2003; EN ISO 9015-2:2011)  
Destructive tests on welds in metallic materials – Hardness testing – Part 2: Microhardness testing of welded joints (ISO 9015-2:2003; EN ISO 9015-2:2011)
- HRN EN ISO 9016:2012 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Ispitivanje udarnog rada loma – Položaj ispitnog uzorka, položaj zarez a i ispitivanje (ISO 9016:2001; EN ISO 9016:2011)  
Destructive tests on welds in metallic materials – Impact tests – Test specimen location, notch orientation and examination (ISO 9016:2001; EN ISO 9016:2011)
- HRN EN ISO 10882-1:2012 en pr  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Uzorkovanje letećih čestica i plinova u području disanja rukovatelja – 1. dio: Uzorkovanje letećih čestica (ISO 10882-1:2011; EN ISO 10882-1:2011)  
Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles (ISO 10882-1:2011; EN ISO 10882-1:2011)
- HRN EN ISO 11666:2012 en pr  
Nerazorno ispitivanje zavarenih spojeva – Ultrazvučno ispitivanje – Razine prihvatljivosti (ISO 11666:2010; EN ISO 11666:2010)

- Non-destructive testing of welds — Ultrasonic testing — Acceptance levels (ISO 11666:2010; EN ISO 11666:2010)
- HRN EN ISO 13123:2012 en pr  
Metalne i druge anorganske prevlake — Metoda ispitivanja prevlaka za toplinsku izolaciju cikličkim zagrijavanjem uz istovremeni porast temperature (ISO 13123:2011; EN ISO 13123:2011)  
Metallic and other inorganic coatings — Test method of cyclic heating for thermal-barrier coatings under temperature gradient (ISO 13123:2011; EN ISO 13123:2011)
- HRN EN ISO 14174:2012 en pr  
Dodatni i potrošni materijali za zavarivanje — Praškovi za elektrolučno zavarivanje pod praškom i elektro-zavarivanje pod troskom — Razredba (ISO 14174:2012; EN ISO 14174:2012)  
Welding consumables — Fluxes for submerged arc welding and electroslag welding — Classification (ISO 14174:2012; EN ISO 14174:2012)
- HRN EN ISO 14341:2012 en pr  
Dodatni i potrošni materijali za zavarivanje — Žičane elektrode i depoziti za elektrolučno zavarivanje metalnom taljivom elektrodom u zaštiti plina za nelegirane i sitnozrnate čelike — Razredba (ISO 14341:2010; EN ISO 14341:2011)  
Welding consumables — Wire electrodes and weld deposits for gas shielded metal arc welding of non alloy and fine grain steels — Classification (ISO 14341:2010; EN ISO 14341:2011)
- HRN EN ISO 15011-5:2012 en pr  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima — Laboratorijska metoda za uzorkovanje dima i plinova — 5. dio: Identifikacija proizvoda toplinske degradacije pri zavarivanju ili rezanju proizvoda sastavljenih potpuno ili djelomično od organskih materijala upotrebom plina dobivenog pirolizom (ISO 15011-5:2011; EN ISO 15011-5:2011)  
Health and safety in welding and allied processes — Laboratory method for sampling fume and gases — Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry (ISO 15011-5:2011; EN ISO 15011-5:2011)
- HRN EN ISO 15792-3:2012 en pr  
Dodatni i potrošni materijali za zavarivanje — Metode ispitivanja — 3. dio: Razredbeno ispitivanje dodatnog i potrošnog materijala za zavarivanje s obzirom na prikladnost položaja zavarivanja i dubinu uvara kod kutnog zavara (ISO 15792-3:2011; EN ISO 15792-3:2011)  
Welding consumables — Test methods — Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld (ISO 15792-3:2011; EN ISO 15792-3:2011)
- HRN EN ISO 17637:2012 en pr  
Nerazorno ispitivanje zavarenih spojeva — Vizualno ispitivanje zavarenih spojeva nastalih taljenjem (ISO 17637:2003; EN ISO 17637:2011)  
Non-destructive testing of welds — Visual testing of fusion-welded joints (ISO 17637:2003; EN ISO 17637:2011)
- HRN EN ISO 17640:2012 en pr  
Nerazorno ispitivanje zavara — Ultrazvučno ispitivanje — Tehnike, razine ispitivanja i ocjenjivanje (ISO 17640:2010; EN ISO 17640:2010)  
Non-destructive testing of welds — Ultrasonic testing — Techniques, testing levels and assessment (ISO 17640:2010; EN ISO 17640:2010)
- HRN EN ISO 26304:2012 en pr  
Dodatni i potrošni materijali za zavarivanje — Elektrode od pune žice, elektrode od žice punjene praškom i kombinacije elektrode i praška za elektrolučno zavarivanje pod praškom čelika visoke čvrstoće — Razredba (ISO 26304:2011; EN ISO 26304:2011)  
Welding consumables — Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels — Classification (ISO 26304:2011; EN ISO 26304:2011)
- HZN/TO 71, Beton**
- HRN EN 12390-3:2009/Ispr.1:2012 en pr  
Ispitivanje očvrstnuloa betona — 3. dio: Tlačna čvrstoća ispitnih uzoraka (EN 12390-3:2009/AC:2011)  
Testing hardened concrete — Part 3: Compressive strength of test specimens (EN 12390-3:2009/AC:2011)
- HZN/TO 74, Cement i vapno**
- HRN EN 197-1:2012 en pr  
Cement — 1. dio: Sastav, specifikacije i kriteriji sukladnosti cementa opće namjene (EN 197-1:2011)  
Cement — Part 1: Composition, specifications and conformity criteria for common cements (EN 197-1:2011)
- HRN EN 459-3:2012 en pr  
Građevno vapno — 3. dio: Vrednovanje sukladnosti (EN 459-3:2011)  
Building lime — Part 3: Conformity evaluation (EN 459-3:2011)
- HZN/TO 86, Uređaji za hlađenje, klimatizaciju i dizalice topline**
- HRN EN 16147:2012 en pr  
Dizalice topline s kompresorima na električni pogon — Ispitivanja i zahtjevi za označavanje uređaja za pripremu potrošne tople vode (EN 16147:2011+AC:2011)  
Heat pumps with electrically driven compressors — Testing and requirements for marking for domestic hot water units (EN 16147:2011+AC:2011)
- HZN/TO 89, Furniri i drvene ploče**
- HRN EN 14272:2012 en pr  
Uslojeno drvo — Metode proračuna za pojedina mehanička svojstva (EN 14272:2011)  
Plywood — Calculation method for some mechanical properties (EN 14272:2011)
- HZN/TO 91, Površinski aktivne tvari**
- HRN EN 12829:2012 en pr  
Površinski aktivne tvari — Priprema vode poznate kalcijeve i magnezijeve tvrdoće (EN 12829:2011)  
Surface active agents — Preparation of water with known calcium and magnesium hardness (EN 12829:2011)
- HZN/TO 92, Zaštita od požara**
- HRN EN 15725:2010/Ispr.1:2012 en pr  
Proširena primjena izvještaja o ponašanju u požaru građevnih proizvoda i građevnih elemenata (EN 15725:2010/AC:2012)  
Extended application reports on the fire performance of construction products and building elements (EN 15725:2010/AC:2012)
- HZN/TO 116, Uređaji i oprema za izmjenu topline**
- HRN EN 1264-1:2012 en pr  
Ugradbeni sustavi površinskog grijanja i hlađenja vodom — 1. dio: Definicije i simboli (EN 1264-1:2011)  
Water based surface embedded heating and cooling systems — Part 1: Definitions and symbols (EN 1264-1:2011)

## HZN/TO 120, *Koža i obuća*

- HRN EN ISO 2419:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Priprema uzorka i kondicioniranje (ISO 2419:2012; EN ISO 2419:2012)  
Leather – Physical and mechanical tests – Sample preparation and conditioning (ISO 2419:2012; EN ISO 2419:2012)
- HRN EN ISO 3376:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje prekidne čvrstoće i postotka istezanja (ISO 3376:2011; EN ISO 3376:2011)  
Leather – Physical and mechanical tests – Determination of tensile strength and percentage extension (ISO 3376:2011; EN ISO 3376:2011)
- HRN EN ISO 3377-1:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje čvrstoće daljnega kidanja – 1. dio: Jednostrani zarez (ISO 3377-1:2011; EN ISO 3377-1:2011)  
Leather – Physical and mechanical tests – Determination of tear load – Part 1: Single edge tear (ISO 3377-1:2011; EN ISO 3377-1:2011)
- HRN EN ISO 5402-1:2012 en pr  
Koža – Određivanje otpornosti na svijanje – 1. dio: Metoda fleksometrom (ISO 5402-1:2011; EN ISO 5402-1:2011)  
Leather – Determination of flex resistance – Part 1: Flexometer method (ISO 5402-1:2011; EN ISO 5402-1:2011)
- HRN EN ISO 5403-1:2012 en pr  
Koža – Određivanje otpornosti savitljive (fleksibilne) kože na vodu – 1. dio: Uzastopno linearno sabijanje (penetrometrom) (ISO 5403-1:2011; EN ISO 5403-1:2011)  
Leather – Determination of water resistance of flexible leather – Part 1: Repeated linear compression (penetrometer) (ISO 5403-1:2011; EN ISO 5403-1:2011)
- HRN EN ISO 5403-2:2012 en pr  
Koža – Određivanje otpornosti savitljive (fleksibilne) kože na vodu – 2. dio: Uzastopno sabijanje pod kutom (Maeser) (ISO 5403-2:2011; EN ISO 5403-2:2011)  
Leather – Determination of water resistance of flexible leather – Part 2: Repeated angular compression (Maeser) (ISO 5403-2:2011; EN ISO 5403-2:2011)
- HRN EN ISO 5404:2012 en pr  
Koža – Fizikalne metode ispitivanja – Određivanje otpornosti teških koža na vodu (ISO 5404:2011; EN ISO 5404:2011)  
Leather – Physical test methods – Determination of water resistance of heavy leathers (ISO 5404:2011; EN ISO 5404:2011)
- HRN EN ISO 14087:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje sile savijanja (ISO 14087:2011; EN ISO 14087:2011)  
Leather – Physical and mechanical tests – Determination of bending force (ISO 14087:2011; EN ISO 14087:2011)
- HRN EN ISO 17186:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje debljine površine nasloja / površinskih prevlaka (ISO 17186:2011; EN ISO 17186:2011)  
Leather – Physical and mechanical tests – Determination of surface coating thickness (ISO 17186:2011; EN ISO 17186:2011)
- HRN EN ISO 17235:2012 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje mekoće (ISO 17235:2011; EN ISO 17235:2011)  
Leather – Physical and mechanical tests – Determination of softness (ISO 17235:2011; EN ISO 17235:2011)

## HZN/TO 121, *Anestetička i respiracijska oprema*

- HRN EN ISO 5359:2008/A1:2012 en pr  
Niskotlačni cjevovodni sklop za primjenu s medicinskim plinovima – Amandman 1 (ISO 5359:2008/Amd 1:2011; EN ISO 5359:2008/A1:2011)  
Low-pressure hose assemblies for use with medical gases – Amendment 1 (ISO 5359:2008/Amd 1:2011; EN ISO 5359:2008/A1:2011)
- HRN EN ISO 5360:2012 en pr  
Anestetički isparivači – Sustavi punjenja specifični za plin (ISO 5360:2012; EN ISO 5360:2012)  
Anaesthetic vaporizers – Agent-specific filling systems (ISO 5360:2012; EN ISO 5360:2012)

## HZN/TO 134, *Gnojiva i poboljšivači tla*

- HRN EN 13041:2012 en pr  
Poboljšivači tla i supstrati – Određivanje fizikalnih svojstava – Volume gustoće, kapaciteta za zrak, kapaciteta za vodu, vrijednosti skupljanja i ukupnog volumena pora (EN 13041:2011)  
Soil improvers and growing media – Determination of physical properties – Dry bulk density, air volume, water volume, shrinkage value and total pore space (EN 13041:2011)
- HRN EN 15958:2012 en pr  
Gnojiva – Ekstrakcija vodotopivog fosfora (EN 15958:2011)  
Fertilizers – Extraction of water soluble phosphorus (EN 15958:2011)
- HRN EN 15959:2012 en pr  
Gnojiva – Određivanje ekstrahiranog fosfora (EN 15959:2011)  
Fertilizers – Determination of extracted phosphorus (EN 15959:2011)
- HRN EN 15960:2012 en pr  
Gnojiva – Ekstrakcija ukupnog kalcija, ukupnog magnezija, ukupnog natrija i ukupnog sumpora u obliku sulfata (EN 15960:2011)  
Fertilizers – Extraction of total calcium, total magnesium, total sodium and total sulfur in the forms of sulfates (EN 15960:2011)
- HRN EN 15961:2012 en pr  
Gnojiva – Ekstrakcija vodotopivog kalcija, magnezija, natrija i sumpora u obliku sulfata (EN 15961:2011)  
Fertilizers – Extraction of water-soluble calcium, magnesium, sodium and sulfur in the form of sulfates (EN 15961:2011)
- HRN EN 16032:2012 en pr  
Gnojiva – Ekstrakcija i određivanje elementarnog sumpora (EN 16032:2011)  
Fertilizers – Extraction and determination of elemental sulfur (EN 16032:2011)
- HRN EN 16075:2012 en pr  
Gnojiva – Određivanje N-(2-nitrophenyl)phosphoric triamida (2-NPT) u urei i gnojivima koja sadrže ureu – Metoda tekućinske kromatografije visokog učinka (HPLC) (EN 16075:2011)  
Fertilizers – Determination of N-(2-nitrophenyl) phosphoric triamide (2-NPT) in urea and fertilizers containing urea – Method using high-performance liquid chromatography (HPLC) (EN 16075:2011)
- HRN EN 16086-1:2012 en pr  
Poboljšivači tla i supstrati – Određivanje reakcije biljaka – 1. dio: Test rasta u posudama s kineskim kupusom (EN 16086-1:2011)  
Soil improvers and growing media – Determination of plant response – Part 1: Pot growth test with Chinese cabbage (EN 16086-1:2011)
- HRN EN 16086-2:2012 en pr  
Poboljšivači tla i supstrati – Određivanje reakcije biljaka – 2. dio: Test u Petrijevoj posudi upotrebom kres salate (EN 16086-2:2011)

Soil improvers and growing media – Determination of plant response – Part 2: Petri dish test using cress (EN 16086-2:2011)

HRN EN 16087-1:2012 en pr  
Poboljšivači tla i supstrati – Određivanje aerobne biološke aktivnosti – 1. dio: Brzina unosa kisika (OUR) (EN 16087-1:2011)  
Soil improvers and growing media – Determination of the aerobic biological activity – Part 1: Oxygen uptake rate (OUR) (EN 16087-1:2011)

HRN EN 16087-2:2012 en pr  
Poboljšivači tla i supstrati – Određivanje aerobne biološke aktivnosti – 2. dio: Test samozagrijavanja komposta (EN 16087-2:2011)  
Soil improvers and growing media – Determination of the aerobic biological activity – Part 2: Self heating test for compost (EN 16087-2:2011)

HRN EN 16109:2012 en pr  
Gnojiva – Određivanje iona kompleksnih mikrohranjiva u gnojivima – Utvrđivanje lignosulfonata (EN 16109:2011)  
Fertilizers – Determination of complexed micro-nutrient ions in fertilizers – Identification of lignosulfonates (EN 16109:2011)

### **HZN/TO 135, Nerazorna ispitivanja**

HRN EN ISO 11699-1:2012 en pr  
Nerazorno ispitivanje – Film za industrijsku radiografiju – 1. dio: Razredba film-sustava za industrijsku radiografiju (ISO 11699-1:2008; EN ISO 11699-1:2011)  
Non-destructive testing – Industrial radiographic film – Part 1: Classification of film systems for industrial radiography (ISO 11699-1:2008; EN ISO 11699-1:2011)

HRN EN ISO 11699-2:2012 en pr  
Nerazorno ispitivanje – Film za industrijsku radiografiju – 2. dio: Provjera kemijske obrade filma pomoću referentnih vrijednosti (ISO 11699-2:1998; EN ISO 11699-2:2011)  
Non-destructive testing – Industrial radiographic films – Part 2: Control of film processing by means of reference values (ISO 11699-2:1998; EN ISO 11699-2:2011)

HRN EN 13554:2012 en pr  
Nerazorno ispitivanje – Ispitivanje akustičkom emisijom – Opća načela (EN 13554:2011)  
Non-destructive testing – Acoustic emission testing – General principles (EN 13554:2011)

HRN EN 14127:2012 en pr  
Nerazorno ispitivanje – Mjerenje debljine ultrazvukom (EN 14127:2011)  
Non-destructive testing – Ultrasonic thickness measurement (EN 14127:2011)

### **HZN/TO 136, Namještaj**

HRN EN 1729-2:2012 en pr  
Namještaj – Stolice i stolovi za obrazovne ustanove – 2. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1729-2:2012)  
Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods (EN 1729-2:2012)

### **HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

HRN EN 12201-4:2012 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 4. dio: Ventili (EN 12201-4:2012)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 4: Valves (EN 12201-4:2012)

HRS CEN ISO/TS 22391-7:2012 en pr  
Plastični cijevni sustavi za instalacije s toplom i hladnom vodom – Polietileni postojani pri povišenoj temperaturi (PE-RT) – 7. dio: Upute za ocjenjivanje sukladnosti (ISO/TS 22391-7:2011; CEN ISO/TS 22391-7:2011)  
Plastics piping systems for hot and cold water installations – Polyethylene of raised temperature resistance (PE-RT) – Part 7: Guidance for the assessment of conformity (ISO/TS 22391-7:2011; CEN ISO/TS 22391-7:2011)

### **HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

HRN EN ISO 7887:2012 en pr  
Kvaliteta vode – Ispitivanje i određivanje boje (ISO 7887:2011; EN ISO 7887:2011)  
Water quality – Examination and determination of colour (ISO 7887:2011; EN ISO 7887:2011)

HRN EN ISO 10523:2012 en pr  
Kvaliteta vode – Određivanje pH vrijednosti (ISO 10523:2008; EN ISO 10523:2012)  
Water quality – Determination of pH (ISO 10523:2008; EN ISO 10523:2012)

HRN EN ISO 16265:2012 en pr  
Kvaliteta vode – Određivanje indeksa tvari aktivnih prema metilenskom modrilu (MBAS) – Metoda kontinuirane protočne analize (ISO 16265:2009; EN ISO 16265:2012)  
Water quality – Determination of the methylene blue active substances (MBAS) index – Method using continuous flow analysis (CFA) (ISO 16265:2009; EN ISO 16265:2012)

HRN EN ISO 18857-2:2012 en pr  
Kvaliteta vode – Određivanje odabranih alkilfenola – 2. dio: Gas kromatografsko-masena spektrometrijska određivanja alkilfenola, njihovih etoksilata i bisfenola A u nefiltriranim uzorcima nakon ekstrakcije i derivatizacije (ISO 18857-2:2009; EN ISO 18857-2:2011)

### **HZN/TO 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja**

HRN EN ISO 8692:2012 en pr  
Kvaliteta vode – Ispitivanje inhibicije rasta slatkovodnih algi s jednostaničnim zelenim algama (ISO 8692:2012; EN ISO 8692:2012)  
Water quality – Fresh-water algal growth inhibition test with unicellular green algae (ISO 8692:2012; EN ISO 8692:2012)

HRN EN 16039:2012 en pr  
Kvaliteta vode – Savjetodavna norma za procjenu hidromorfoloških značajka jezera (EN 16039:2011)  
Water quality – Guidance standard on assessing the hydromorphological features of lakes (EN 16039:2011)

### **HZN/TO 163, Toplinska izolacija**

HRN EN 13172:2012 en pr  
Toplinsko-izolacijski proizvodi – Vrednovanje sukladnosti (EN 13172:2012)  
Thermal insulation products – Evaluation of conformity (EN 13172:2012)

HRN EN ISO 15927-5:2008/A1:2012 en pr  
Značajke zgrada s obzirom na toplinu i vlagu – Proračun i prikaz klimatskih podataka – 5. dio: Podaci za proračun toplinskog opterećenja za grijanje prostora – (ISO 15927-5:2004/Amd 1:2011; EN ISO 15927-5:2004/A1:2011)  
Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 5: Data for design heat load for space heating – Amendment 1 (ISO 15927-5:2004/Amd 1:2011; EN ISO 15927-5:2004/A1:2011)



HRN EN 16012:2012 en pr  
Toplinska izolacija za zgrade – Reflektirajući izolacijski proizvodi – Određivanje deklarirang toplinskog svojstva (EN 16012:2012)  
Thermal insulation for buildings – Reflective insulation products – Determination of the declared thermal performance (EN 16012:2012)

### **HZN/TO 167, Metalne konstrukcije**

HRN EN 1090-1:2012 en pr  
Izvedba čeličnih i aluminijskih konstrukcija – 1. dio: Zahtjevi za ocjenjivanje sukladnosti konstrukcijskih komponenata (EN 1090-1:2009+A1:2011)  
Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components (EN 1090-1:2009+A1:2011)

### **HZN/TO 182, Geotehničke konstrukcije**

HRN EN ISO 22476-2:2008/A1:2012 en pr  
Geotehničko istraživanje i ispitivanje – Terensko ispitivanje – 2. dio: Dinamička penetracija (ISO 22476-2:2005/Amd 1:2011; EN ISO 22476-2:2005/A1:2011)  
Geotechnical investigation and testing – Field testing – Part 2: Dynamic probing – Amendment 1 (ISO 22476-2:2005/Amd 1:2011; EN ISO 22476-2:2005/A1:2011)

HRN EN ISO 22476-3:2008/A1:2012 en pr  
Geotehničko istraživanje i ispitivanje – Terensko ispitivanje – 3. dio: Standardno penetracijsko ispitivanje (ISO 22476-3:2005/Amd 1:2011; EN ISO 22476-3:2005/A1:2011)  
Geotechnical investigation and testing – Field testing – Part 3: Standard penetration test – Amendment 1 (ISO 22476-3:2005/Amd 1:2011; EN ISO 22476-3:2005/A1:2011)

### **HZN/TO 190, Kvaliteta tla**

HRN EN ISO 11260:2012 en pr  
Kvaliteta tla – Određivanje stvarnog kapaciteta zamjene kationa i stupnja zasićenosti bazama s otopinom barijeva klorida (ISO 11260:1994+Cor 1:1996; EN ISO 11260:2011)  
Soil quality – Determination of effective cation exchange capacity and base saturation level using barium chloride solution (ISO 11260:1994+Cor 1:1996; EN ISO 11260:2011)

HRN EN ISO 14240-1:2012 en pr  
Kvaliteta tla – Određivanje mikrobne biomase tla – 1. dio: Supstratom inducirana respiracijska metoda (ISO 14240-1:1997; EN ISO 14240-1:2011)  
Soil quality – Determination of soil microbial biomass – Part 1: Substrate-induced respiration method (ISO 14240-1:1997; EN ISO 14240-1:2011)

HRN EN ISO 14240-2:2012 en pr  
Kvaliteta tla – Određivanje mikrobne biomase tla – 2. dio: Fumigacijsko-ekstrakcijska metoda (ISO 14240-2:1997; EN ISO 14240-2:2011)  
Soil quality – Determination of soil microbial biomass – Part 2: Fumigation-extraction method (ISO 14240-2:1997; EN ISO 14240-2:2011)

HRN EN ISO 14254:2012 en pr  
Kvaliteta tla – Određivanje zamjenjive kiselosti u ekstraktu barijevog klorida (ISO 14254:2001; EN ISO 14254:2011)  
Soil quality – Determination of exchangeable acidity in barium chloride extracts (ISO 14254:2001; EN ISO 14254:2011)

HRN EN ISO 16072:2012 en pr  
Kvaliteta tla – Laboratorijske metode za određivanje mikrobnog disanja tla (ISO 16072:2002; EN ISO 16072:2011)

Soil quality – Laboratory methods for determination of microbial soil respiration (ISO 16072:2002; EN ISO 16072:2011)

HRN EN ISO 16133:2012 en pr  
Kvaliteta tla – Upute o uspostavljanju i provođenju programa nadzora (ISO 16133:2004; EN ISO 16133:2011)  
Soil quality – Guidance on the establishment and maintenance of monitoring programmes (ISO 16133:2004; EN ISO 16133:2011)

HRN EN ISO 16703:2012 en pr  
Kvaliteta tla – Određivanje sadržaja ugljikovodika u rasponu od C10 do C40 plinskom kromatografijom (ISO 16703:2004; EN ISO 16703:2011)  
Soil quality – Determination of content of hydrocarbon in the range C10 to C40 by gas chromatography (ISO 16703:2004; EN ISO 16703:2011)

HRN EN ISO 22030:2012 en pr  
Kvaliteta tla – Biološke metode – Kronična toksičnost viših biljaka (ISO 22030:2005; EN ISO 22030:2011)  
Soil quality – Biological methods – Chronic toxicity in higher plants (ISO 22030:2005; EN ISO 22030:2011)

HRN EN ISO 23470:2012 en pr  
Kvaliteta tla – Određivanje efektivnoga kationskog izmjenjivačkog kapaciteta (KIK) i izmjenjivih kationa primjenom heksaminkobalt triklorid otopine (ISO 23470:2007; EN ISO 23470:2011)  
Soil quality – Determination of effective cation exchange capacity (CEC) and exchangeable cations using a hexamminecobalt trichloride solution (ISO 23470:2007; EN ISO 23470:2011)

HRN EN ISO 25177:2012 en pr  
Kvaliteta tla – Terenski opis tla (ISO 25177:2008; EN ISO 25177:2011)  
Soil quality – Field soil description (ISO 25177:2008; EN ISO 25177:2011)

### **HZN/TO 196, Prirodni kamen**

HRN EN 12059:2012 en pr  
Proizvodi od prirodnog kamena – Dimenzionirani obrađeni kamen – Zahtjevi (EN 12059:2008+A1:2011)  
Natural stone products – Dimensional stone work – Requirements (EN 12059:2008+A1:2011)

### **HZN/TO 207, Upravljanje okolišem**

HRN EN ISO 14064-1:2012 en pr  
Staklenički plinovi – 1. dio: Specifikacija sa smjericama na razini organizacije za kvantificiranje i izvješćivanje o emisijama i uklanjanju stakleničkih plinova (ISO 14064-1:2006; EN ISO 14064-1:2012)  
Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006; EN ISO 14064-1:2012)

HRN EN ISO 14064-2:2012 en pr  
Staklenički plinovi – 2. dio: Specifikacija sa smjericama na razini projekta za kvantificiranje, praćenje i izvješćivanje o smanjivanju emisija ili povećanju uklanjanja stakleničkih plinova (ISO 14064-2:2006; EN ISO 14064-2:2012)  
Greenhouse gases – Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements (ISO 14064-2:2006; EN ISO 14064-2:2012)

HRN EN ISO 14064-3:2012 en pr  
Staklenički plinovi – 3. dio: Specifikacija sa smjericama za validaciju i verifikaciju tvrdnji o stakleničkim plinovima (ISO 14064-3:2006; EN ISO 14064-3:2012)

Greenhouse gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (ISO 14064-3:2006; EN ISO 14064-3:2012)

HRN EN ISO 14065:2012 en pr  
Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition (ISO 14065:2007; EN ISO 14065:2012)

### **HZN/TO 218, Drvo**

HRN EN 152:2012 en pr  
Sredstva za zaštitu drva – Određivanje učinkovitosti postupaka zaštite drva protiv gljiva, uzročnika promjene boje drva u uporabi – Laboratorijska metoda (EN 152:2011)  
Wood preservatives – Determination of the protective effectiveness of a preservative treatment against blue stain in wood in service – Laboratory method (EN 152:2011)

### **HZN/TO 221, Geosintetici**

HRN EN 12226:2012 en pr  
Geosintetici – Opći postupci za vrednovanje nakon ispitivanja postojanosti (EN 12226:2012)  
Geosynthetics – General tests for evaluation following durability testing (EN 12226:2012)

### **HZN/TO 502, Plinski uređaji**

HRN EN 1196:2012 en pr  
Kućanski i nekućanski plinski generatori toplog zraka – Dodatni zahtjevi za kondenzacijske generatore toplog zraka (EN 1196:2011)  
Domestic and non-domestic gas-fired air heaters – Supplementary requirements for condensing air heaters (EN 1196:2011)

HRN EN 1458-1:2012 en pr  
Kućanske plinske, direktno grijane, bubnjaste sušilice rublja koje nisu priključene na stalni sustav odvođenja dimnih plinova, s nazivnim toplinskim opterećenjem ne većim od 6 kW – 1. dio: Sigurnost (EN 1458-1:2011)  
Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW – Part 1: Safety (EN 1458-1:2011)

HRN EN 1458-2:2012 en pr  
Kućanske plinske, direktno grijane, bubnjaste sušilice rublja koje nisu priključene na stalni sustav odvođenja dimnih plinova, s nazivnim toplinskim opterećenjem ne većim od 6 kW – 2. dio: Racionalno korištenje energije (EN 1458-2:2011)  
Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW – Part 2: Rational use of energy (EN 1458-2:2011)

HRN EN 13611:2012 en pr  
Sigurnosni i regulirajući uređaji za plinske plamenike i plinske uređaje – Opći zahtjevi (EN 13611:2007+A2:2011)  
Safety and control devices for gas burners and gas burning appliances – General requirements (EN 13611:2007+A2:2011)

HRN EN 15420:2012 en pr  
Gas-fired central heating boilers – Type C boilers of nominal heat input exceeding 70 kW, but not exceeding 1000 kW (EN 15420:2010)

### **HZN/TO 503, Metalni materijali**

HRN EN ISO 148-1:2012 en pr  
Metalni materijali – Ispitivanje udarnog rada loma Charpyjevim batom – 1. dio: Metoda ispitivanja (ISO 148-1:2009; EN ISO 148-1:2010)  
Metallic materials – Charpy pendulum impact test – Part 1: Test method (ISO 148-1:2009; EN ISO 148-1:2010)

HRN EN 1172:2012 en pr  
Bakar i legure bakra – Limovi i trake za primjenu u građevinarstvu (EN 1172:2011)  
Copper and copper alloys – Sheet and strip for building purposes (EN 1172:2011)

HRN EN ISO 2106:2012 en pr  
Anodizacija aluminija i njegovih legura – Određivanje mase po jedinici površine (površinska gustoća) prevlaka dobivenih anodnom oksidacijom – Gravimetrijska metoda (ISO 2106:2011; EN ISO 2106:2011)  
Anodizing of aluminium and its alloys – Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method (ISO 2106:2011; EN ISO 2106:2011)

HRN EN ISO 8251:2012 en pr  
Anodizacija aluminija i njegovih legura – Mjerenje otpornosti na abraziju prevlaka dobivenih anodnom oksidacijom (ISO 8251:2011; EN ISO 8251:2011)  
Anodizing of aluminium and its alloys – Measurement of abrasion resistance of anodic oxidation coatings (ISO 8251:2011; EN ISO 8251:2011)

HRN EN 10218-1:2012 en pr  
Čelična žica i žičani proizvodi – Općenito – 1. dio: Metode ispitivanja (EN 10218-1:2012)  
Steel wire and wire products – General – Part 1: Test methods (EN 10218-1:2012)

HRN EN 10218-2:2012 en pr  
Čelična žica i žičani proizvodi – Općenito – 2. dio: Mjere i dopuštena odstupanja za žicu (EN 10218-2:2012)  
Steel wire and wire products – General – Part 2: Wire dimensions and tolerances (EN 10218-2:2012)

HRN EN 10264-1:2012 en pr  
Čelična žica i žičani proizvodi – Čelična žica za užad – 1. dio: Opći zahtjevi (EN 10264-1:2012)  
Steel wire and wire products – Steel wire for ropes – Part 1: General requirements (EN 10264-1:2012)

HRN EN 10264-2:2012 en pr  
Čelična žica i žičani proizvodi – Čelična žica za užad – 2. dio: Hladno vučena nelegirana čelična žica za užad opće namjene (EN 10264-2:2012)  
Steel wire and wire products – Steel wire for ropes – Part 2: Cold drawn non alloy steel wire for ropes for general applications (EN 10264-2:2012)

HRN EN 10264-3:2012 en pr  
Čelična žica i žičani proizvodi – Čelična žica za užad – 3. dio: Hladno vučena i hladno oblikovana žica od nelegiranog čelika za visoka opterećenja (EN 10264-3:2012)  
Steel wire and wire products – Steel wire for ropes – Part 3: Round and shaped non alloyed steel wire for high duty applications (EN 10264-3:2012)

HRN EN 10264-4:2012 en pr  
Čelična žica i žičani proizvodi – Čelična žica za užad – 4. dio: Žica od nehrđajućeg čelika (EN 10264-4:2012)  
Steel wire and wire products – Steel wire for ropes – Part 4: Stainless steel wire (EN 10264-4:2012)

HRN EN 10294-2:2012 en pr  
Cijevi za daljnju obradu – Tehnički uvjeti isporuke – 2. dio: Nehrđajući čelici sa specificiranim svojstvima obrade (EN 10294-2:2012)

Hollow bars for machining – Technical delivery conditions – Part 2: Stainless steels with specified machinability properties (EN 10294-2:2012)

HRN EN 10351:2012 en pr  
Kemijska analiza materijala na bazi željeza – Optička emisijska spektrometrijska analiza s induktivnom spregnutom plazmom, nelegiranih i nisko legiranih čelika – Određivanje Mn, P, Cu, Ni, Cr, Mo, V, Co, Al (ukupno) i Sn (rutinska metoda) (EN 10351:2011)  
Chemical analysis of ferrous materials – Inductively coupled plasma optical emission spectrometric analysis of unalloyed and low alloyed steels – Determination of Mn, P, Cu, Ni, Cr, Mo, V, Co, Al (total) and Sn (Routine method) (EN 10351:2011)

- HRN EN ISO 10893-1:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 1. dio: Automatizirano elektromagnetsko ispitivanje bešavnih i zavarenih (osim elektrolučno zavarenih pod praškom) čeličnih cijevi radi provjere hidrauličke nepropusnosti (ISO 10893-1:2011; EN ISO 10893-1:2011)  
Non-destructive testing of steel tubes – Part 1: Automated electromagnetic testing of seamless and welded (except submerged arc-welded) steel tubes for the verification of hydraulic leaktightness (ISO 10893-1:2011; EN ISO 10893-1:2011)
- HRN EN ISO 10893-2:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 2. dio: Automatizirano ispitivanje bešavnih i zavarenih (osim elektrolučno zavarenih pod praškom) čeličnih cijevi vrtložnim strujama radi otkrivanja nepravilnosti (ISO 10893-2:2011; EN ISO 10893-2:2011)  
Non-destructive testing of steel tubes – Part 2: Automated eddy current testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of imperfections (ISO 10893-2:2011; EN ISO 10893-2:2011)
- HRN EN ISO 10893-3:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 3. dio: Automatizirano ispitivanje mjerenjem propuštanja magnetskog toka bešavnih i zavarenih (osim elektrolučno zavarenih pod praškom) feromagnetskih čeličnih cijevi po cijelome opsegu radi otkrivanja uzdužnih i/ili poprečnih nepravilnosti (ISO 10893-3:2011; EN ISO 10893-3:2011)  
Non-destructive testing of steel tubes – Part 3: Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-3:2011; EN ISO 10893-3:2011)
- HRN EN ISO 10893-4:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 4. dio: Pregled tekućim penetrantom bešavnih i zavarenih čeličnih cijevi radi otkrivanja površinskih nepravilnosti (ISO 10893-4:2011; EN ISO 10893-4:2011)  
Non-destructive testing of steel tubes – Part 4: Liquid penetrant inspection of seamless and welded steel tubes for the detection of surface imperfections (ISO 10893-4:2011; EN ISO 10893-4:2011)
- HRN EN ISO 10893-5:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 5. dio: Pregled bešavnih i zavarenih feromagnetskih čeličnih cijevi magnetskim česticama radi otkrivanja površinskih nepravilnosti (ISO 10893-5:2011; EN ISO 10893-5:2011)  
Non-destructive testing of steel tubes – Part 5: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections (ISO 10893-5:2011; EN ISO 10893-5:2011)
- HRN EN ISO 10893-6:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 6. dio: Radiografsko ispitivanje šavnog zavora elektrolučno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO 10893-6:2011; EN ISO 10893-6:2011)  
Non-destructive testing of steel tubes – Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-6:2011; EN ISO 10893-6:2011)
- HRN EN ISO 10893-7:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 7. dio: Digitalno radiografsko ispitivanje šavnog zavora elektrolučno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO 10893-7:2011; EN ISO 10893-7:2011)  
Non-destructive testing of steel tubes – Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-7:2011; EN ISO 10893-7:2011)
- HRN EN ISO 10893-8:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 8. dio: Automatizirano ultrazvučno ispitivanje bešavnih i zavarenih čeličnih cijevi radi otkrivanja laminarnih nepravilnosti (ISO 10893-8:2011; EN ISO 10893-8:2011)  
Non-destructive testing of steel tubes – Part 8: Automated ultrasonic testing of seamless and welded steel tubes for the detection of laminar imperfections (ISO 10893-8:2011; EN ISO 10893-8:2011)
- HRN EN ISO 10893-9:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 9. dio: Automatizirano ultrazvučno ispitivanje radi otkrivanja laminarnih nepravilnosti kod traka/limova koji se upotrebljavaju za proizvodnju zavarenih čeličnih cijevi (ISO 10893-9:2011; EN ISO 10893-9:2011)  
Non-destructive testing of steel tubes – Part 9: Automated ultrasonic testing for the detection of laminar imperfections in strip/plate used for the manufacture of welded steel tubes (ISO 10893-9:2011; EN ISO 10893-9:2011)
- HRN EN ISO 10893-10:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 10. dio: Automatizirano ultrazvučno ispitivanje bešavnih i zavarenih čeličnih cijevi po cijelom opsegu (osim elektrolučno zavarenih pod praškom) radi otkrivanja uzdužnih i/ili poprečnih nepravilnosti (ISO 10893-10:2011; EN ISO 10893-10:2011)  
Non-destructive testing of steel tubes – Part 10: Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-10:2011; EN ISO 10893-10:2011)
- HRN EN ISO 10893-11:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 11. dio: Automatizirano ultrazvučno ispitivanje šavnih zavora elektro-zavarenih čeličnih cijevi radi otkrivanja uzdužnih i/ili poprečnih nepravilnosti (ISO 10893-11:2011; EN ISO 10893-11:2011)  
Non-destructive testing of steel tubes – Part 11: Automated ultrasonic testing of the weld seam of welded steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-11:2011; EN ISO 10893-11:2011)
- HRN EN ISO 10893-12:2012 en pr  
Nerazorno ispitivanje čeličnih cijevi – 12. dio: Automatizirano ultrazvučno ispitivanje debljine bešavnih i zavarenih (osim elektrolučno zavarenih pod praškom) čeličnih cijevi po cijelome opsegu (ISO 10893-12:2011; EN ISO 10893-12:2011)  
Non-destructive testing of steel tubes – Part 12: Automated full peripheral ultrasonic thickness testing of seamless and welded (except submerged arc-welded) steel tubes (ISO 10893-12:2011; EN ISO 10893-12:2011)
- HRN EN 12163:2012 en pr  
Bakar i legure bakra – Šipke za opće namjene (EN 12163:2011)  
Copper and copper alloys – Rod for general purposes (EN 12163:2011)
- HRN EN 12164:2012 en pr  
Bakar i legure bakra – Šipke namijenjene obradi odvajanjem čestica (EN 12164:2011)  
Copper and copper alloys – Rod for free machining purposes (EN 12164:2011)
- HRN EN 12165:2012 en pr  
Bakar i legure bakra – Gnječeni i negnječeni materijal namijenjen kovanju (EN 12165:2011)  
Copper and copper alloys – Wrought and unwrought forging stock (EN 12165:2011)

- HRN EN 12166:2012 en pr  
Bakar i legure bakra – Žica za opće namjene  
(EN 12166:2011)  
Copper and copper alloys – Wire for general purposes  
(EN 12166:2011)
- HRN EN 12167:2012 en pr  
Bakar i legure bakra – Profili i šipke za opće namjene  
(EN 12167:2011)  
Copper and copper alloys – Profiles and bars for  
general purposes (EN 12167:2011)
- HRN EN 12168:2012 en pr  
Bakar i legure bakra – Šuplje šipke namijenjene obradi  
odvajanjem čestica (EN 12168:2011)  
Copper and copper alloys – Hollow rod for free  
machining purposes (EN 12168:2011)
- HRN EN 15022-4:2012 en pr  
Bakar i legure bakra – Određivanje udjela kositra –  
4. dio: Srednji udio kositra – Metoda plamene atomske  
apsorpcijske spektrometrije (FAAS) (EN 15022-4:2011)  
Copper and copper alloys – Determination of tin  
content – Part 4: Medium tin content – Flame atomic  
absorption spectrometric method (FAAS)  
(EN 15022-4:2011)
- HRS CEN/TS 15916-1:2012 en pr  
Bakar i legure bakra – Određivanje sadržaja telura –  
1. dio: Nizak sadržaj telura – Metoda plamene  
atomske apsorpcijske spektrometrije (FAAS)  
(CEN/TS 15916-1:2011)  
Copper and copper alloys – Determination of tellurium  
content – Part 1: Low tellurium content – Flame  
atomic absorption spectrometric method (FAAS)  
(CEN/TS 15916-1:2011)
- HRN EN ISO 21809-1:2012 en pr  
Industrija nafte i zemnog plina – Vanjske prevlake  
za podzemne ili podvodne cjevovode za upotrebu  
u transportnim sustavima cjevovoda – 1. dio:  
Poliolefinske prevlake (3-slojne PE i 3-slojne PP)  
(ISO 21809-1:2011; EN ISO 21809-1:2011)  
Petroleum and natural gas industries – External  
coatings for buried or submerged pipelines used in  
pipeline transportation systems – Part 1: Polyolefin  
coatings (3-layer PE and 3-layer PP)  
(ISO 21809-1:2011; EN ISO 21809-1:2011)

#### **HZN/TO 504, Korozija i zaštita metala i legura**

- HRN EN ISO 6158:2012 en pr  
Metalne prevlake – Elektrokemijske kromatne  
prevlake za inženjerske namjene (ISO 6158:2011;  
EN ISO 6158:2011)  
Metallic and other inorganic coatings –  
Electrodeposited coatings of chromium for engineering  
purposes (ISO 6158:2011; EN ISO 6158:2011)
- HRN EN ISO 9223:2012 en pr  
Korozija metala i legura – Korozivnost atmosfera –  
Razredba, određivanje i procjena (ISO 9223:2012;  
EN ISO 9223:2012)  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Classification, determination and  
estimation (ISO 9223:2012; EN ISO 9223:2012)
- HRN EN ISO 9224:2012 en pr  
Korozija metala i legura – Korozivnost atmosfera –  
Referentne vrijednosti za kategorije korozivnosti  
(ISO 9224:2012; EN ISO 9224:2012)  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Guiding values for the corrosivity  
categories (ISO 9224:2012; EN ISO 9224:2012)
- HRN EN ISO 9225:2012 en pr  
Korozija metala i legura – Korozivnost atmosfera –  
Mjerenje parametara okoliša koji utječu na korozivnost  
atmosfera (ISO 9225:2012; EN ISO 9225:2012)  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Measurement of environmental parameters  
affecting corrosivity of atmospheres (ISO 9225:2012;  
EN ISO 9225:2012)

- HRN EN ISO 9226:2012 en pr  
Korozija metala i legura – Korozivnost atmosfera –  
Određivanje brzine korozije normiranih uzoraka za  
vrednovanje korozivnosti (ISO 9226:2012;  
EN ISO 9226:2012)  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Determination of corrosion rate of  
standard specimens for the evaluation of corrosivity  
(ISO 9226:2012; EN ISO 9226:2012)
- HRN EN ISO 28706-1:2012 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti  
na kemijsku koroziju – 1. dio: Određivanje otpornosti  
na kemijsku koroziju pomoću kiselina pri sobnoj  
temperaturi (ISO 28706-1:2008; EN ISO 28706-1:2011)  
Vitreous and porcelain enamels – Determination  
of resistance to chemical corrosion – Part 1:  
Determination of resistance to chemical corrosion by  
acids at room temperature (ISO 28706-1:2008;  
EN ISO 28706-1:2011)
- HRN EN ISO 28706-2:2012 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti  
na kemijsku koroziju – 2. dio: Određivanje otpornosti  
na kemijsku koroziju pomoću vrućih kiselina, vrućih  
neutralnih tekućina i/ili njihovim parama  
(ISO 28706-2:2008; EN ISO 28706-2:2011)  
Vitreous and porcelain enamels – Determination  
of resistance to chemical corrosion – Part 2: Determi-  
nation of resistance to chemical corrosion by boiling  
acids, boiling neutral liquids and/or their vapours  
(ISO 28706-2:2008; EN ISO 28706-2:2011)
- HRN EN ISO 28706-3:2012 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti  
na kemijsku koroziju – 3. dio: Određivanje otpornosti  
na kemijsku koroziju pomoću lužnatih tekućina  
upotrebom šesterokutne posude (ISO 28706-3:2008;  
EN ISO 28706-3:2011)  
Vitreous and porcelain enamels – Determination  
of resistance to chemical corrosion – Part 3:  
Determination of resistance to chemical corrosion by  
alkaline liquids using a hexagonal vessel  
(ISO 28706-3:2008; EN ISO 28706-3:2011)
- HRN EN ISO 28706-4:2012 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti  
na kemijsku koroziju – 4. dio: Određivanje otpornosti  
na kemijsku koroziju pomoću lužnatih tekućina  
upotrebom cilindrične posude (ISO 28706-4:2008;  
EN ISO 28706-4:2011)  
Vitreous and porcelain enamels – Determination  
of resistance to chemical corrosion – Part 4:  
Determination of resistance to chemical corrosion by  
alkaline liquids using a cylindrical vessel  
(ISO 28706-4:2008; EN ISO 28706-4:2011)
- HRN EN ISO 28706-5:2012 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti  
na kemijsku koroziju – 5. dio: Određivanje otpornosti  
na kemijsku koroziju u zatvorenim sustavima  
(ISO 28706-5:2010; EN ISO 28706-5:2011)  
Vitreous and porcelain enamels – Determination  
of resistance to chemical corrosion – Part 5: Determi-  
nation of resistance to chemical corrosion in closed  
systems (ISO 28706-5:2010; EN ISO 28706-5:2011)
- HRN EN ISO 28721-1:2012 en pr  
Staklasti i porculanski emajli – Staklasto prevučeni  
uređaji za procesna postrojenja – 1. dio: Zahtjevi za  
kvalitetu za uređaje, dijelove, aparate i pribor  
(ISO 28721-1:2008; EN ISO 28721-1:2011)  
Vitreous and porcelain enamels – Glass-lined  
apparatus for process plants – Part 1: Quality  
requirements for apparatus, components, appliances  
and accessories (ISO 28721-1:2008;  
EN ISO 28721-1:2011)

- HRN EN ISO 28721-2:2012 en pr  
Staklasti i porculanski emajli – Staklasto prevučeni uređaji za procesna postrojenja – 2. dio: Označivanje i specifikacija otpornosti na kemijsko djelovanje i toplinski šok (ISO 28721-2:2008; EN ISO 28721-2:2011)  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 2: Designation and specification of resistance to chemical attack and thermal shock (ISO 28721-2:2008; EN ISO 28721-2:2011)
- HRN EN ISO 28721-3:2012 en pr  
Staklasti i porculanski emajli – Staklasto prevučeni uređaji za procesna postrojenja – 3. dio: Otpornost na toplinski šok (ISO 28721-3:2008; EN ISO 28721-3:2011)  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 3: Thermal shock resistance (ISO 28721-3:2008; EN ISO 28721-3:2011)
- HRN EN ISO 28722:2012 en pr  
Staklasti i porculanski emajli – Značajke prevlaka emajla nanesenih na čelične ploče za primjenu u arhitekturi (ISO 28722:2008; EN ISO 28722:2011)  
Vitreous and porcelain enamels – Characteristics of enamel coatings applied to steel panels intended for architecture (ISO 28722:2008; EN ISO 28722:2011)
- HRN EN ISO 28723:2012 en pr  
Staklasti i porculanski emajli – Određivanje pokrivenosti ruba emajliranog čeličnog lima koji se upotrebljava u izmjenjivačima topline (ISO 28723:2008; EN ISO 28723:2011)  
Vitreous and porcelain enamels – Determination of the edge covering on enamelled steel plate to be used in heat exchangers (ISO 28723:2008; EN ISO 28723:2011)
- HRN EN ISO 28763:2012 en pr  
Staklasti i porculanski emajli – Obnovljive, emajlirane i pakirane obloge za zračno-plinske i plinsko-plinske izmjenjivače topline – Specifikacije (ISO 28763:2008; EN ISO 28763:2011)  
Vitreous and porcelain enamels – Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers – Specifications (ISO 28763:2008; EN ISO 28763:2011)
- HRN EN ISO 28764:2012 en pr  
Staklasti i porculanski emajli – Proizvodnja uzoraka za ispitivanje emajla na limovima od čelika, limovima od aluminija i željeznog ljeva (ISO 28764:2008; EN ISO 28764:2011)  
Vitreous and porcelain enamels – Production of specimens for testing enamels on sheet steel, sheet aluminium and cast iron (ISO 28764:2008; EN ISO 28764:2011)
- HRN EN ISO 28765:2012 en pr  
Staklasti i porculanski emajli – Projektiranje vijcima spojenih čeličnih spremnika za skladištenje ili obradu voda ili komunalnih ili industrijskih ispusta i muljeva (ISO 28765:2008; EN ISO 28765:2011)  
Vitreous and porcelain enamels – Design of bolted steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges (ISO 28765:2008; EN ISO 28765:2011)

## **HZN/TO 505, Prijenos i distribucija plina**

- HRN EN ISO 28460:2012 en pr  
Industrija za naftu i plin – Instalacije i oprema za ukapljeni prirodni plin – Povezivanje broda s obalnim instalacijama (ISO 28460:2010; EN ISO 28460:2010)  
Petroleum and natural gas industries – Installation and equipment for liquefied natural gas – Ship-to-shore interface and port operations (ISO 28460:2010; EN ISO 28460:2010)

## **HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu**

- HRI CEN ISO/TR 10400:2012 en pr  
Petroleum and natural gas industries – Equations and calculations for the properties of casing, tubing, drill pipe and line pipe used as casing or tubing (ISO/TR 10400:2007; CEN ISO/TR 10400:2011)
- HRN EN ISO 10414-2:2012 en pr  
Industrija nafte i prirodnog plina – Ispitivanje tekućina za izradu bušotina u terenskim uvjetima – 2. dio: Tekućine na bazi ulja (ISO 10414-2:2011; EN ISO 10414-2:2011)  
Petroleum and natural gas industries – Field testing of drilling fluids – Part 2: Oil-based fluids (ISO 10414-2:2011; EN ISO 10414-2:2011)
- HRN EN ISO 10418:2006/Ispr.1:2012 en pr  
Petroleum and natural gas industries – Offshore production installations – Analysis, design, installation and testing of basic surface process safety systems (ISO 10418:2003/Cor 1:2008; EN ISO 10418:2003/AC:2009)
- HRN EN ISO 10426-1:2010/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Cementi i materijali za cementaciju bušotina – 1. dio: Specifikacija – Tehnički ispravak 1 (ISO 10426-1:2009/Cor 1:2010; EN ISO 10426-1:2009/AC:2010)  
Petroleum and natural gas industries – Cements and materials for well cementing – Part 1: Specification – Technical Corrigendum 1 (ISO 10426-1:2009/Cor 1:2010; EN ISO 10426-1:2009/AC:2010)
- HRN EN ISO 13500:2008/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Materijali za isplahivanje pri bušenju – Specifikacije i ispitivanja (ISO 13500:2008/Cor 1:2009; EN ISO 13500:2008/AC:2009)  
Petroleum and natural gas industries – Drilling fluid materials – Specifications and tests (ISO 13500:2008/Cor 1:2009; EN ISO 13500:2008/AC:2009)
- HRN EN ISO 13501:2012 en pr  
Industrija nafte i prirodnog plina – Bušaći fluidi – Vrednovanje opreme (ISO 13501:2011; EN ISO 13501:2011)  
Petroleum and natural gas industries – Drilling fluids – Processing equipment evaluation (ISO 13501:2011; EN ISO 13501:2011)
- HRN EN ISO 13503-1:2012 en pr  
Industrija nafte i prirodnog plina – Fluidi i materijali za završno opremanje bušotina – 1. dio: Mjerenje svojstva viskoznosti fluida za završno opremanje bušotina (ISO 13503-1:2011; EN ISO 13503-1:2011)  
Petroleum and natural gas industries – Completion fluids and materials – Part 1: Measurement of viscous properties of completion fluids (ISO 13503-1:2011; EN ISO 13503-1:2011)
- HRN EN ISO 13628-2:2008/Ispr.1:2012 en pr  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 2: Unbonded flexible pipe systems for subsea and marine applications (ISO 13628-2:2006/Cor 1:2009; EN ISO 13628-2:2006/AC:2009)
- HRN EN ISO 13628-11:2008/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Projektiranje i rad podmorskih proizvodnih sustava – 11. dio: Sustavi savitljivih cijevi za primjenu na moru i u podmorju (ISO 13628-11:2007/Cor 1:2008; EN ISO 13628-11:2008/AC:2009)  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 11: Flexible pipe systems for subsea and marine applications (ISO 13628-11:2007/Cor 1:2008; EN ISO 13628-11:2008/AC:2009)

- HRN EN ISO 13678:2012 en pr  
Industrija nafte i prirodnog plina – Utvrđivanje vrijednosti i ispitivanja masti za podmazivanje navoja na zaštitnim cijevima, uzlaznim cijevima i cjevovodima (ISO 13678:2010; EN ISO 13678:2012)  
Petroleum and natural gas industries – Evaluation and testing of thread compounds for use with casing, tubing, line pipe and drill stem elements (ISO 13678:2010; EN ISO 13678:2012)
- HRN EN ISO 13706:2012 en pr  
Industrija nafte i prirodnog plina – Izmjenjivači topline hlađeni zrakom (ISO 13706:2011; EN ISO 13706:2011)  
Petroleum, petrochemical and natural gas industries – Air-cooled heat exchangers (ISO 13706:2011; EN ISO 13706:2011)
- HRI CEN ISO/TR 13881:2012 en pr  
Industrija nafte i prirodnog plina – Razredba i procjena sukladnosti proizvoda, procesa i usluga (ISO/TR 13881:2000; CEN ISO/TR 13881:2011)  
Petroleum and natural gas industries – Classification and conformity assessment of products, processes and services (ISO/TR 13881:2000; CEN ISO/TR 13881:2011)
- HRN EN 13942:2010/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Sustavi transporta cjevovodima – Zaporni uređaji za cjevovode (ISO 14313:2007/Cor 1:2009, MOD; EN 13942:2009/AC:2009)  
Petroleum and natural gas industries – Pipeline transportation systems – Pipeline valves (ISO 14313:2007/Cor 1:2009, MOD; EN 13942:2009/AC:2009)
- HRN EN 14161:2012 en pr  
Industrija nafte i prirodnog plina – Sustav transporta cjevovodima (ISO 13623:2009, MOD; EN 14161:2011)  
Petroleum and natural gas industries – Pipeline transportation systems (ISO 13623:2009, MOD; EN 14161:2011)
- HRN EN 14870-1:2012 en pr  
Industrija nafte i prirodnog plina – Toplo savijeni lukovi, fitinzi i prirubnice za cjevovodne transportne sustave – 1. dio: Toplo savijeni lukovi (ISO 15590-1:2009, MOD; EN 14870-1:2011)  
Petroleum and natural gas industries – Induction bends, fittings and flanges for pipeline transportation systems – Part 1: Induction bends (ISO 15590-1:2009, MOD; EN 14870-1:2011)
- HRN EN ISO 15463:2006/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Pogonski pregled i ispitivanje novoga kesinga, tubinga i bušaćih šipki glatkog kraja (ISO 15463:2003/Cor 1:2009; EN ISO 15463:2003/AC:2009)  
Petroleum and natural gas industries – Field inspection of new casing, tubing and plain-end drill pipe (ISO 15463:2003/Cor 1:2009; EN ISO 15463:2003/AC:2009)
- HRN EN ISO 15546:2012 en pr  
Petroleum and natural gas industries – Aluminium alloy drill pipe (ISO 15546:2011; EN ISO 15546:2011)
- HRN EN ISO 17078-2:2008/Ispr.1:2012 en pr  
Industrija nafte i prirodnog plina – Oprema za bušenje i proizvodnju – 2. dio: Bočna vretena, naprave za reguliranje protoka (ISO 17078-2:2007/Cor 1:2009; EN ISO 17078-2:2007/AC:2009)  
Petroleum and natural gas industries – Drilling and production equipment – Part 2: Flow-control devices for side-pocket mandrels (ISO 17078-2:2007/Cor 1:2009; EN ISO 17078-2:2007/AC:2009)
- HRN EN ISO 19739:2008/Ispr.1:2012 en pr  
Prirodni plin – Određivanje sumpornih spojeva uporabom plinske kromatografije (ISO 19739:2004/Cor 1:2009; EN ISO 19739:2005/AC:2009)  
Natural gas – Determination of sulfur compounds using gas chromatography (ISO 19739:2004/Cor 1:2009; EN ISO 19739:2005/AC:2009)
- HRN EN ISO 20312:2012 en pr  
Petroleum and natural gas industries – Design and operating limits of drill strings with aluminium alloy components (ISO 20312:2011; EN ISO 20312:2011)
- HRN EN ISO 23936-2:2012 en pr  
Petroleum, petrochemical and natural gas industries – Non-metallic materials in contact with media related to oil and gas production – Part 2: Elastomers (ISO 23936-2:2011; EN ISO 23936-2:2011)
- HRI CEN ISO/TR 24094:2012 en pr  
Analysis of natural gas – Validation methods for gaseous reference materials (ISO/TR 24094:2006; CEN ISO/TR 24094:2007)
- HRS CEN ISO/TS 24817:2012 en pr  
Industrija nafte, petrokemije i prirodnog plina – Složeni popravci cjevovoda – Ocjena i proračun, izvedba, ispitivanje i inspekcija (ISO/TS 24817:2006; CEN ISO/TS 24817:2011)  
Petroleum, petrochemical and natural gas industries – Composite repairs for pipework – Qualification and design, installation, testing and inspection (ISO/TS 24817:2006; CEN ISO/TS 24817:2011)
- HRS CEN ISO/TS 27469:2012 en pr  
Petroleum, petrochemical and natural gas industries – Method of test for fire dampers (ISO/TS 27469:2010; CEN ISO/TS 27469:2011)
- HRN EN ISO 28300:2008/Ispr.1:2012 en pr  
Industrija nafte, petrokemije i prirodnog plina – Odračivanje atmosferskih i niskotlačnih spremnika (ISO 28300:2008/Cor 1:2009; EN ISO 28300:2008/AC:2009)  
Petroleum, petrochemical and natural gas industries – Venting of atmospheric and low-pressure storage tanks (ISO 28300:2008/Cor 1:2009; EN ISO 28300:2008/AC:2009)
- HRS CEN ISO/TS 29001:2012 en pr  
Industrija nafte, petrokemije i prirodnog plina – Područje-posebni sustavi upravljanja kvalitetom – Zahtjevi za organizacije koje isporučuju proizvode i usluge (ISO/TS 29001:2010; CEN ISO/TS 29001:2011)  
Petroleum, petrochemical and natural gas industries – Sector-specific quality management systems – Requirements for product and service supply organizations (ISO/TS 29001:2010; CEN ISO/TS 29001:2011)

### **HZN/TO 513, Mjerne jedinice i mjerila**

- HRN EN 14154-2:2012 en pr  
Vodomjeri – 2. dio: Ugradnja i uvjeti uporabe (EN 14154-2:2005+A2:2011)  
Water meters – Part 2: Installation and conditions of use (EN 14154-2:2005+A2:2011)
- HRN EN 14154-3:2012 en pr  
Vodomjeri – 3. dio: Ispitne metode i oprema (EN 14154-3:2005+A2:2011)  
Water meters – Part 3: Test methods and equipment (EN 14154-3:2005+A2:2011)

### **HZN/TO 522, Karakterizacija i zbrinjavanje otpada**

- HRN EN 13965-2:2012 hr,en,fr,de pp  
Karakterizacija otpada – Nazivlje – 2. dio: Upravljanje srodnim nazivima i definicijama (EN 13965-2:2010)  
Characterization of waste – Terminology – Part 2: Management related terms and definitions (EN 13965-2:2010)
- HRN EN 15875:2012 en pr  
Karakterizacija otpada – Statički test za određivanje kiselinskog potencijala i neutralizacijskog potencijala sulfidnog otpada (EN 15875:2011)

Characterization of waste – Static test for determination of acid potential and neutralisation potential of sulfidic waste (EN 15875:2011)

### **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

- HRN EN 490:2012 en pr  
Betonski crijeplj i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Specifikacije proizvoda (EN 490:2011)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Product specifications (EN 490:2011)
- HRN EN 491:2012 en pr  
Betonski crijeplj i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Metode ispitivanja (EN 491:2011)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Test methods (EN 491:2011)

### **HZN/TO 528, Oprema za željeznice**

- HRN EN 13145:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Drveni pragovi i nosači (EN 13145:2001+A1:2011)  
Railway applications – Track – Wood sleepers and bearers (EN 13145:2001+A1:2011)
- HRN EN 13146-9:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Metode ispitivanja za kolosječni pričvršni pribor – 9. dio: Određivanje krutosti (EN 13146-9:2009+A1:2011)  
Railway applications – Track – Test methods for fastening systems – Part 9: Determination of stiffness (EN 13146-9:2009+A1:2011)
- HRN EN 13232-2:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 2. dio: Zahtjevi za geometrijsko oblikovanje (EN 13232-2:2003+A1:2011)  
Railway applications – Track – Switches and crossings – Part 2: Requirements for geometric design (EN 13232-2:2003+A1:2011)
- HRN EN 13232-3:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 3. dio: Zahtjevi za uzajamno djelovanje kotača i tračnice (EN 13232-3:2003+A1:2011)  
Railway applications – Track – Switches and crossings – Part 3: Requirements for wheel/rail interaction (EN 13232-3:2003+A1:2011)
- HRN EN 13232-4:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 4. dio: Postavljanje, zaključavanje i kontrola položaja (EN 13232-4:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 4: Actuation, locking and detection (EN 13232-4:2005+A1:2011)
- HRN EN 13232-5:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 5. dio: Mijenjalica (EN 13232-5:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 5: Switches (EN 13232-5:2005+A1:2011)
- HRN EN 13232-6:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 6. dio: Nepomična obična i dvostruka srca (EN 13232-6:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 6: Fixed common and obtuse crossings (EN 13232-6:2005+A1:2011)
- HRN EN 13232-7:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 7. dio: Srca s pomičnim dijelovima (EN 13232-7:2006+A1:2011)

Railway applications – Track – Switches and crossings – Part 7: Crossings with moveable parts (EN 13232-7:2006+A1:2011)

- HRN EN 13232-8:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 8. dio: Dilatacijske naprave (EN 13232-8:2007+A1:2011)  
Railway applications – Track – Switches and crossings – Part 8: Expansion devices (EN 13232-8:2007+A1:2011)
- HRN EN 13232-9:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 9. dio: Sklapanje (EN 13232-9:2006+A1:2011)  
Railway applications – Track – Switches and crossings – Part 9: Layouts (EN 13232-9:2006+A1:2011)
- HRS CEN/TS 13979-2:2012 en pr  
Oprema za željeznice – Osovinski sklopovi i okretna postolja – Monoblok kotači – Postupak tehničkog odobrenja – 2. dio: Lijevani kotači (CEN/TS 13979-2:2011)  
Railway applications – Wheelsets and bogies – Monobloc wheels – Technical approval procedure – Part 2: Cast wheels (CEN/TS 13979-2:2011)
- HRS CEN/TS 15718:2012 en pr  
Oprema za željeznice – Osovinski sklopovi i okretna postolja – Izradbeni zahtjevi za lijevane kotače (CEN/TS 15718:2011)  
Railway applications – Wheelsets and bogies – Product requirements for cast wheels (CEN/TS 15718:2011)
- HRN EN 15746-1:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 1. dio: Tehnički zahtjevi za kretanje i rad (EN 15746-1:2010+A1:2011)  
Railway applications – Track – Road-rail machines and associated equipment – Part 1: Technical requirements for running and working (EN 15746-1:2010+A1:2011)
- HRN EN 15746-2:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 2. dio: Opći sigurnosni zahtjevi (EN 15746-2:2010+A1:2011)  
Railway applications – Track – Road-rail machines and associated equipment – Part 2: General safety requirements (EN 15746-2:2010+A1:2011)
- HRS CEN/TS 45545-2:2012 en pr  
Oprema za željeznice – Zaštita od požara na željezničkim vozilima – 2. dio: Zahtjevi za ponašanje materijala i komponenti kod požara (CEN/TS 45545-2:2009)  
Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components (CEN/TS 45545-2:2009)

### **HZN/TO 531, Plastika i guma**

- HRN EN ISO 1043-1:2012 en pr  
Plastika – Simboli i skraćeni nazivi – 1. dio: Osnovni polimeri i njihova karakteristična svojstva (ISO 1043-1:2011; EN ISO 1043-1:2011)  
Plastics – Symbols and abbreviated terms – Part 1: Basic polymers and their special characteristics (ISO 1043-1:2011; EN ISO 1043-1:2011)
- HRN EN ISO 1043-2:2012 en pr  
Plastika – Simboli i skraćeni nazivi – 2. dio: Punila i materijali za ojačavanje (ISO 1043-2:2011; EN ISO 1043-2:2011)  
Plastics – Symbols and abbreviated terms – Part 2: Fillers and reinforcing materials (ISO 1043-2:2011; EN ISO 1043-2:2011)

- HRN EN ISO 1133-1:2012 en pr  
Plastika — Određivanje brzine masenog protoka taline (MFR) i volumne brzine taline (MVR) plastomera — 1. dio: Standardna metoda (ISO 1133-1:2011; EN ISO 1133-1:2011)  
Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method (ISO 1133-1:2011; EN ISO 1133-1:2011)
- HRN EN ISO 1133-2:2012 en pr  
Plastika — Određivanje brzine masenog protoka taline (MFR) i volumne brzine taline (MVR) plastomera — 2. dio: Metoda za materijale osjetljive na vremensko-temperaturnu prošlost i/ili vlagu (ISO 1133-2:2011; EN ISO 1133-2:2011)  
Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 2: Method for materials sensitive to time-temperature history and/or moisture (ISO 1133-2:2011; EN ISO 1133-2:2011)
- HRN EN ISO 1622-1:2012 en pr  
Plastika — Polistirenski (PS) prešani i ekstrudirani materijali — 1. dio: Sustav označavanja i osnove za specifikacije (ISO 1622-1:2012; EN ISO 1622-1:2012)  
Plastics — Polystyrene (PS) moulding and extrusion materials — Part 1: Designation system and basis for specifications (ISO 1622-1:2012; EN ISO 1622-1:2012)
- HRN EN ISO 10619-1:2012 en pr  
Gumena i plastična crijeva i cijevi — Mjerenje savitljivosti i krutosti — 1. dio: Savojna ispitivanja pri temperaturi okoline (ISO 10619-1:2011; EN ISO 10619-1:2011)  
Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 1: Bending tests at ambient temperature (ISO 10619-1:2011; EN ISO 10619-1:2011)
- HRN EN ISO 10619-2:2012 en pr  
Gumena i plastična crijeva i cijevi — Mjerenje savitljivosti i krutosti — 2. dio: Savojna ispitivanja pri temperaturi nižoj od temperature okoline (ISO 10619-2:2011; EN ISO 10619-2:2011)  
Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 2: Bending tests at subambient temperatures (ISO 10619-2:2011; EN ISO 10619-2:2011)
- HRN EN ISO 10619-3:2012 en pr  
Gumena i plastična crijeva i cijevi — Mjerenje savitljivosti i krutosti — 3. dio: Savojna ispitivanja pri visokim i niskim temperaturama (ISO 10619-3:2011; EN ISO 10619-3:2011)  
Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 3: Bending tests at high and low temperatures (ISO 10619-3:2011; EN ISO 10619-3:2011)
- HRN EN ISO 28017:2012 en pr  
Gumena crijeva i crijevni pribori ojačani žicom ili tekstilom za primjene u jaruženju — Specifikacija (ISO 28017:2011; EN ISO 28017:2011)  
Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications — Specification (ISO 28017:2011; EN ISO 28017:2011)

### **HZN/TO 532, Dimnjaci**

- HRN EN 1457-2:2012 en pr  
Dimnjaci — Glinene/keramičke dimovodne cijevi — 2. dio: Dimovodne cijevi za djelovanje u vlažnim uvjetima — Zahtjevi metode ispitivanja (EN 1457-2:2012)  
Chimneys — Clay/ceramic flue liners — Part 2: Flue liners operating under wet conditions — Requirements and test methods (EN 1457-2:2012)

### **HZN/TO 534, Spremnici za teret**

- HRN EN 13044-1:2012 en pr  
Intermodalne teretne jedinice — Označavanje — 1. dio: Oznake za identifikaciju (EN 13044-1:2011)  
Intermodal Loading Units — Marking — Part 1: Markings for identification (EN 13044-1:2011)
- HRN EN 13044-2:2012 en pr  
Intermodalne teretne jedinice — Označavanje — 2. dio: Oznake izmjenjivih tijela za željeznički promet (EN 13044-2:2011)  
Intermodal Loading Units — Marking — Part 2: Markings of swap bodies related to rail operation (EN 13044-2:2011)
- HRN EN 13044-3:2012 en pr  
Intermodalne teretne jedinice — Označavanje — 3. dio: Oznake kamionskih poluprikolica za željeznički promet (EN 13044-3:2011)  
Intermodal Loading Units — Marking — Part 3: Markings of semi-trailers related to rail operation (EN 13044-3:2011)

### **HZN/TO 535, Agregati**

- HRN EN 933-1:2012 en pr  
Ispitivanje geometrijskih svojstava agregata — 1. dio: Određivanje granulometrijskog sastava — Metoda sisanja (EN 933-1:2012)  
Tests for geometrical properties of aggregates — Part 1: Determination of particle size distribution — Sieving method (EN 933-1:2012)
- HRN EN 933-3:2012 en pr  
Ispitivanja geometrijskih svojstava agregata — 3. dio: Određivanje oblika zrna — Indeks plosnatosti (EN 933-3:2012)  
Tests for geometrical properties of aggregates — Part 3: Determination of particle shape — Flakiness index (EN 933-3:2012)
- HRN EN 933-8:2012 en pr  
Ispitivanja geometrijskih svojstava agregata — 8. dio: Procjena sitnih čestica — Određivanje ekvivalenta pijeska (EN 933-8:2012)  
Tests for geometrical properties of aggregates — Part 8: Assessment of fines — Sand equivalent test (EN 933-8:2012)

### **HZN/TO 536, Vrata, prozori i staklo u graditeljstvu**

- HRN EN 674:2012 en pr  
Staklo u graditeljstvu — Određivanje koeficijenta prolaska topline (U-vrijednost) — Metoda sa zaštićenom vrućom pločom (EN 674:2011)  
Glass in building — Determination of thermal transmittance (U value) — Guarded hot plate method (EN 674:2011)
- HRN EN 675:2012 en pr  
Staklo u graditeljstvu — Određivanje koeficijenta prolaska topline (U-vrijednost) — Tokomjerna metoda (EN 675:2011)  
Glass in building — Determination of thermal transmittance (U value) — Heat flow meter method (EN 675:2011)
- HRN EN 1096-1:2012 en pr  
Staklo u graditeljstvu — Staklo s premazom — 1. dio: Definicija i razredba (EN 1096-1:2012)  
Glass in building — Coated glass — Part 1: Definitions and classification (EN 1096-1:2012)
- HRN EN 1096-2:2012 en pr  
Staklo u graditeljstvu — Staklo s premazom — 2. dio: Zahtjevi i metode ispitivanja za razrede premaza A, B i S (EN 1096-2:2012)  
Glass in building — Coated glass — Part 2: Requirements and test methods for class A, B and S coatings (EN 1096-2:2012)



- HRN EN 1096-3:2012 en pr  
Staklo u graditeljstvu – Staklo s premazom – 3. dio: Zahtjevi i metode ispitivanja za razrede premaza C i D (EN 1096-3:2012)  
Glass in building – Coated glass – Part 3: Requirements and test methods for class C and D coatings (EN 1096-3:2012)
- HRN EN 1863-1:2012 en pr  
Staklo u graditeljstvu – Toplinski ojačano natrij-kalcijevo silikatno staklo – 1. dio: Definicija i opis (EN 1863-1:2011)  
Glass in building – Heat strengthened soda lime silicate glass – Part 1: Definition and description (EN 1863-1:2011)
- HRN EN 13024-1:2012 en pr  
Staklo u graditeljstvu – Kaljeno borosilikatno sigurnosno staklo – 1. dio: Definicija i opis (EN 13024-1:2011)  
Glass in building – Thermally toughened borosilicate safety glass – Part 1: Definition and description (EN 13024-1:2011)
- HRN EN 13050:2012 en pr  
Ovještene fasade – Vodonepropusnost – Laboratorijsko ispitivanje pod dinamičkim uvjetima tlaka zraka i prskanja vodom (EN 13050:2011)  
Curtain Walling – Watertightness – Laboratory test under dynamic condition of air pressure and water spray (EN 13050:2011)
- HRN EN 13126-1:2012 en pr  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 1. dio: Zahtjevi za sve vrste okova (EN 13126-1:2011)  
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 1: Requirements common to all types of hardware (EN 13126-1:2011)
- HRN EN 13126-2:2012 en pr  
Građevni okovi – Zahtjevi i metode ispitivanja za prozore i prozorska vrata – 2. dio: Ručke za zatvaranje prozora (EN 13126-2:2011)  
Building hardware – Requirements and test methods for windows and doors height windows – Part 2: Window fastener handles (EN 13126-2:2011)
- HRN EN 13126-3:2012 en pr  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 3. dio: Ručke, prvenstveno za otklopne i zaokretne, prvo otklopne i samo zaokretne okove (EN 13126-3:2011)  
Building hardware – Hardware for windows and door-height windows – Requirements and test methods – Part 3: Handles, primarily for Tilt and Turn, Tilt-First and Turn-Only hardware (EN 13126-3:2011)
- HRN EN 13141-7:2012 en pr  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 7. dio: Ispitivanje značajka sustava ventilacije za dobavu i otsis (uključujući povrat topline) za obiteljsku kuću (EN 13141-7:2010)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings (EN 13141-7:2010)
- HRN EN 14908-6:2012 en pr  
Otvorena podatkovna komunikacija u automatizaciji zgrada, nadzor i upravljanje zgradama – Mrežni kontrolni protokol – 6. dio: Elementi primjene (EN 14908-6:2010)  
Open Data Communication in Building Automation, Controls and Building Management – Control Network Protocol – Part 6: Application elements (EN 14908-6:2010)
- HRN EN 15232:2012 en pr  
Energijske značajke zgrada – Utjecaj automatizacije zgrada, nadzor i upravljanje zgradama (EN 15232:2012)  
Energy performance of buildings – Impact of Building Automation, Controls and Building Management (EN 15232:2012)
- HRN EN 15316-4-8:2012 en pr  
Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-8: Sustavi za proizvodnju topline, sustavi toplozračnog grijanja i sustavi grijanja zračenjem odozgo (EN 15316-4-8:2011)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-8: Space heating generation systems, air heating and overhead radiant heating systems (EN 15316-4-8:2011)
- HRN EN 15726:2012 en pr  
Ventilacija u zgradama – Raspodjela zraka – Mjerenja u zoni boravka klimatiziranih/ventiliranih prostora za procjenu toplinskih i akustičkih uvjeta (EN 15726:2011)  
Ventilation for buildings – Air diffusion – Measurements in the occupied zone of air-conditioned/ventilated rooms to evaluate thermal and acoustic conditions (EN 15726:2011)
- HRN EN 15780:2012 en pr  
Ventilacija u zgradama – Razvod kanala – Čistoća ventilacijskih sustava (EN 15780:2011)  
Ventilation for buildings – Ductwork – Cleanliness of ventilation systems (EN 15780:2011)

### **HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**

- HRN EN 13053:2012 en pr  
Ventilacija u zgradama – Centralne jedinice za pripremu zraka – Podjela i značajke jedinica, dijelova i sekcija (EN 13053:2006+A1:2011)  
Ventilation for buildings – Air handling units – Rating and performance for units, components and sections (EN 13053:2006+A1:2011)
- HRN EN 13141-4:2012 en pr  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 4. dio: Ventilatori koji se upotrebljavaju u sustavima stambene ventilacije (EN 13141-4:2011)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 4: Fans used in residential ventilation systems (EN 13141-4:2011)

### **HZN/TO 546, Očuvanje kulturne baštine**

- HRN EN 15759-1:2012 en pr  
Očuvanje kulturne baštine – Očuvanje kulturne baštine – Indoor climate – Part 1: Guidelines for heating churches, chapels and other places of worship (EN 15759-1:2011)
- HRN EN 15898:2012 en pr  
Očuvanje kulturnog dobra – Osnovno nazivlje i definicije (EN 15898:2011)  
Conservation of cultural property – Main general terms and definitions (EN 15898:2011)

### **HZN/TO 548, Konstrukcijski eurokodovi**

- HRN EN 1996-1-2:2012 hr pp  
Eurokod 6: Projektiranje zidanih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na požarno djelovanje (EN 1996-1-2:2005+AC:2010)  
Eurocode 6: Design of masonry structures – Part 1-2: General rules – Structural fire design (EN 1996-1-2:2005+AC:2010)

HRN EN 1996-1-2:2012/NA:2012 hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija –  
Dio 1-2: Opća pravila – Projektiranje konstrukcija na  
požarno djelovanje – Nacionalni dodatak  
Eurocode 6: Design of masonry structures – Part 1-2:  
General rules – Structural fire design – National annex

HRN EN 1996-2:2012 hr pp  
Eurokod 6: Projektiranje zidanih konstrukcija – 2. dio:  
Konstruiranje, odabir materijala i izvedba zida  
(EN 1996-2:2006+AC:2009)  
Eurocode 6: Design of masonry structures – Part 2:  
Design considerations, selection of materials and  
execution of masonry (EN 1996-2:2006+AC:2009)

HRN EN 1996-2:2012/NA:2012 hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija – 2. dio:  
Konstruiranje, odabir materijala i izvedba zida –  
Nacionalni dodatak  
Eurocode 6: Design of masonry structures – Part 2:  
Design considerations, selection of materials and  
execution of masonry – National annex

HRN EN 1996-3:2012 hr pp  
Eurokod 6: Projektiranje zidanih konstrukcija – 3. dio:  
Pojednostavnjene proračunske metode za nearmirane  
zidane konstrukcije (EN 1996-3:2006+AC:2009)  
Eurocode 6: Design of masonry structures – Part 3:  
Simplified calculation methods for unreinforced  
masonry structures (EN 1996-3:2006+AC:2009)

HRN EN 1996-3:2012/NA:2012 hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija – 3. dio:  
Pojednostavnjene proračunske metode za nearmirane  
zidane konstrukcije – Nacionalni dodatak  
Eurocode 6: Design of masonry structures – Part 3:  
Simplified calculation methods for unreinforced  
masonry structures – National annex

#### **HZN/TO 551, Gradnja**

HRN EN 15643-3:2012 en pr  
Održivost građevina – Ocjenjivanje zgrada – 3. dio:  
Okvir za ocjenjivanje društvenih svojstava  
(EN 15643-3:2012)  
Sustainability of construction works – Assessment of  
buildings – Part 3: Framework for the assessment of  
social performance (EN 15643-3:2012)

HRN EN 15643-4:2012 en pr  
Održivost građevina – Ocjenjivanje zgrada – 4. dio:  
Okvir za ocjenjivanje ekonomskih svojstava  
(EN 15643-4:2012)  
Sustainability of construction works – Assessment of  
buildings – Part 4: Framework for the assessment of  
economic performance (EN 15643-4:2012)

HRN EN 15804:2012 en pr  
Održivost građevina – Izjava zaštite okoliša – Osnovna  
pravila za kategorizaciju građevnih proizvoda  
(EN 15804:2012)  
Sustainability of construction works – Environmental  
product declarations – Core rules for the product  
category of construction products (EN 15804:2012)

HRN EN 15942:2012 en pr  
Održivost građevina – Izjava zaštite okoliša – Oblik  
komunikacije među poduzećima (EN 15942:2011)  
Sustainability of construction works – Environmental  
product declarations – Communication format  
business-to-business (EN 15942:2011)

#### **HZN/TO 553, Predgotovljeni proizvodi**

HRN EN 1168:2012 en pr  
Predgotovljeni betonski proizvodi – Ploče sa  
šupljinama (EN 1168:2005+A3:2011)  
Precast concrete products – Hollow core slabs  
(EN 1168:2005+A3:2011)

HRN EN 12839:2012 en pr  
Predgotovljeni betonski proizvodi – Elementi za  
ograde (EN 12839:2012)

Precast concrete products – Elements for fences  
(EN 12839:2012)

#### **HZN/TO 557, Zaštitna odjeća**

HRN EN 16027:2012 en pr  
Zaštitna odjeća – Rukavice sa zaštitnim učinkom za  
nogometne vratare (EN 16027:2011)  
Protective clothing – Gloves with protective effect for  
association football goal keepers (EN 16027:2011)

#### **HZN/TO 559, Zaporni, regulacijski i sigurnosni uređaji**

HRN EN 558:2012 en pr  
Industrijski zaporni uređaji – Ugradbene mjere između  
krajeva i osi i kraja kod metalnih zapornih uređaja  
za primjenu u cijevnim sustavima s prirubničkim  
spojevima – Zaporni uređaji s oznakama PN-a i  
razreda (EN 558:2008+A1:2011)  
Industrial valves – Face-to-face and centre-to-face  
dimensions of metal valves for use in flanged pipe  
systems – PN and Class designated valves  
(EN 558:2008+A1:2011)

#### **HZN/TO 560, Tekstilni proizvodi**

HRI 1148:2012 hr izv  
Antropometrijski sustav – Mjerenje tijela i označavanje  
veličina odjeće i obuće  
Anthropometric system – Measuring and size  
designation of clothes and footwear

HRI CEN/TR 16298:2012 en pr  
Tekstil i tekstilni proizvodi – Pametni tekstil –  
Definicije, podjela, primjena i potrebe normizacije  
(CEN/TR 16298:2011)  
Textiles and textile products – Smart textiles  
– Definitions, categorisation, applications and  
standardization needs (CEN/TR 16298:2011)

#### **HZN/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce**

HRN EN ISO 11114-3:2012 en pr  
Prenosive plinske boce – Uskladivost materijala boce  
i ventila sa sadržanim plinom – 3. dio: Ispitivanje  
samozapaljenja nemetalnih materijala u atmosferi  
kisika (ISO 11114-3:2010; EN ISO 11114-3:2010)  
Gas cylinders – Compatibility of cylinder and valve  
materials with gas contents – Part 3: Autogenous  
ignition test for non-metallic materials in oxygen  
atmosphere (ISO 11114-3:2010;  
EN ISO 11114-3:2010)

HRN EN ISO 11372:2012 en pr  
Plinske boce – Boce za acetilen – Uvjeti punjenja i  
pregled pri punjenju (ISO 11372:2011;  
EN ISO 11372:2011)  
Gas cylinders – Acetylene cylinders – Filling  
conditions and filling inspection (ISO 11372:2011;  
EN ISO 11372:2011)

HRN EN 12952-2:2012 en pr  
Vodocijevni kotlovi i pomoćne instalacije – 2. dio:  
Materijali za dijelove kotlova i opremu pod tlakom  
(EN 12952-2:2011)  
Water-tube boilers and auxiliary installations – Part 2:  
Materials for pressure parts of boilers and accessories  
(EN 12952-2:2011)

HRN EN 12952-3:2012 en pr  
Vodocijevni kotlovi i pomoćne instalacije – 3. dio:  
Projektiranje i proračun dijelova kotla pod tlakom  
(EN 12952-3:2011)  
Water-tube boilers and auxiliary installations – Part 3:  
Design and calculation for pressure parts of the boiler  
(EN 12952-3:2011)

- HRN EN 12952-4:2012 en pr  
Vodocijevni kotlovi i pomoćne instalacije – 4. dio: Proračuni očekivanog vijeka trajanja kotla u upotrebi (EN 12952-4:2011)  
Water-tube boilers and auxiliary installations – Part 4: In-service boiler life expectancy calculations (EN 12952-4:2011)
- HRN EN 12952-5:2012 en pr  
Vodocijevni kotlovi i pomoćne instalacije – 5. dio: Radionička izrada i konstrukcija dijelova kotla pod tlakom (EN 12952-5:2011)  
Water-tube boilers and auxiliary installations – Part 5: Workmanship and construction of pressure parts of the boiler (EN 12952-5:2011)
- HRN EN 12952-6:2012 en pr  
Vodocijevni kotlovi i pomoćne instalacije – 6. dio: Nadzor tijekom izrade; dokumentacija i označivanje dijelova kotla pod tlakom (EN 12952-6:2011)  
Water-tube boilers and auxiliary installations – Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler (EN 12952-6:2011)
- HRN EN 12953-13:2012 en pr  
Dimnocijevni kotlovi – 13. dio: Upute za rad (EN 12953-13:2012)  
Shell boilers – Part 13: Operating instructions (EN 12953-13:2012)

### **HZN/TO 563, Sigurnost strojeva**

- HRN EN 1010-2:2012 en pr  
Safety of machinery – Safety requirements for the design and construction of printing and paper converting machines – Part 2: Printing and varnishing machines including pre-press machinery (EN 1010-2:2006+A1:2010)
- HRN EN ISO 4413:2012 en pr  
Hydraulic fluid power – General rules and safety requirements for systems and their components (ISO 4413:2010; EN ISO 4413:2010)
- HRN EN ISO 4414:2012 en pr  
Pneumatic fluid power – General rules and safety requirements for systems and their components (ISO 4414:2010; EN ISO 4414:2010)
- HRN EN ISO 14122-4:2008/A1:2012 en pr  
Sigurnost strojeva – Trajni način prilaza strojevima – 4. dio: Nepomične ljestve (ISO 14122-4:2004/Amd 1:2010; EN ISO 14122-4:2004/A1:2010)  
Safety of machinery – Permanent means of access to machinery – Part 4: Fixed ladders (ISO 14122-4:2004/Amd 1:2010; EN ISO 14122-4:2004/A1:2010)
- HRN EN 15518-1:2012 en pr  
Winter maintenance equipment – Road weather information systems – Part 1: Global definitions and components (EN 15518-1:2011)
- HRN EN 15518-2:2012 en pr  
Winter maintenance equipment – Road weather information systems – Part 2: Road weather – Recommended observation and forecast (EN 15518-2:2011)
- HRN EN 15518-3:2012 en pr  
Winter maintenance equipment – Road weather information systems – Part 3: Requirements on measured values of stationary equipments (EN 15518-3:2011)
- HRN EN 15774:2012 en pr  
Food processing machinery – Machines for processing fresh and filled pasta (tagliatelle, cannelloni, ravioli, tortellini, orecchiette and gnocchi) – Safety and hygiene requirements (EN 15774:2010)

### **HZN/TO 568, Analize hrane – Horizontalne metode**

- HRN EN ISO 6887-4:2004/A1:2012 en pr  
Mikrobiologija hrane i stočne hrane – Priprema ispitnih uzoraka, osnovnoga i ostalih decimalnih razrjeđenja za mikrobiološku pretragu – 4. dio: Posebna pravila za pripremu proizvoda osim mlijeka i mliječnih proizvoda, mesa i mesnih proizvoda te ribe i proizvoda ribarstva (ISO 6887-4:2003/Amd 1:2011; EN ISO 6887-4:2003/A1:2011)  
Microbiology of food and animal feeding stuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – Part 4: Specific rules for the preparation of products other than milk and milk products, meat and meat products, and fish and fishery products (ISO 6887-4:2003/Amd 1:2011; EN ISO 6887-4:2003/A1:2011)
- HRS CEN ISO/TS 10272-3:2011/Ispr.1:2012 en pr  
Mikrobiologija hrane i hrane za životinje – Horizontalna metoda za detekciju i određivanje broja bakterija *Campylobacter* spp. – 3. dio: Semikvantitativna metoda – Tehnički ispravak 1 (ISO/TS 10272-3:2010/Cor 1:2011; CEN ISO/TS 10272-3:2010/AC:2011)  
Microbiology of food and animal feeding stuffs – Horizontal method for detection and enumeration of *Campylobacter* spp. – Part 3: Semi-quantitative method – Technical Corrigendum 1 (ISO/TS 10272-3:2010/Cor 1:2011; CEN ISO/TS 10272-3:2010/AC:2011)
- HRS CEN ISO/TS 11133-2:2004/A1:2012 en pr  
Mikrobiologija hrane i stočne hrane – Upute za pripremu i proizvodnju hranjivih podloga – 2. dio: Praktične upute za testiranje hranjivih podloga – Amandman 1: Testni mikroorganizmi za uobičajene podloge (ISO/TS 11133-2:2003/Amd 1:2011; CEN ISO/TS 11133-2:2003/A1:2011)  
Microbiology of food and animal feeding stuffs – Guidelines on preparation and production of culture media – Part 2: Practical guidelines on performance testing of culture media – Amendment 1: Test microorganisms for commonly used culture media (ISO/TS 11133-2:2003/Amd 1:2011; CEN ISO/TS 11133-2:2003/A1:2011)
- HRS CEN/TS 15634-2:2012 en pr  
Hrana – Detekcija alergena u hrani metodom molekularne biologije – 2. dio: Celer (*Apium graveolens*) – Kvalitativno određivanje specifičnih sekvencija DNK-a u kuhanim kobasicama s pomoću metode RT-PCR (CEN/TS 15634-2:2012)  
Foodstuffs – Detection of food allergens by molecular biological methods – Part 2: Celery (*Apium graveolens*) – Qualitative determination of a specific DNA sequence in cooked sausages by real-time PCR (CEN/TS 15634-2:2012)
- HRN EN ISO 16050:2012 en pr  
Hrana – Određivanje aflatoksina B1 i ukupnoga sadržaja aflatoksina B1, B2, G1 i G2 u žitaricama, orašastim plodovima te od njih dobivenim proizvodima – Metoda tekućinske kromatografije visokog učinka (ISO 16050:2003; EN ISO 16050:2011)  
Foodstuffs – Determination of aflatoxin B1, and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products – High-performance liquid chromatographic method (ISO 16050:2003; EN ISO 16050:2011)
- HRS CEN/TS 16187:2012 en pr  
Hrana – Određivanje fumonizina B1 i fumonizina B2 u prerađenoj hrani za dojenčad i malu djecu koja sadržava kukuruz – Metoda tekućinske kromatografije visokog učinka sa čišćenjem na imunoafinitetnoj koloni i fluorescentnom detekcijom nakon pretkolonske derivatizacije (CEN/TS 16187:2011)

Foodstuffs – Determination of fumonisin B1 and fumonisin B2 in processed maize containing foods for infants and young children – HPLC method with immunoaffinity column cleanup and fluorescence detection after precolumn derivatization (CEN/TS 16187:2011)

- HRS CEN/TS 16233-1:2012 en pr  
Hrana – Metoda HPLC za određivanje ksantofila u ribljemu mesu – 1. dio: Određivanje astaksantina i kantaksatina (CEN/TS 16233-1:2011)  
Foodstuffs – HPLC method for the determination of xanthophylls in fish flesh – Part 1: Determination of astaxanthin and canthaxanthin (CEN/TS 16233-1:2011)
- HRS CEN/TS 16233-2:2012 en pr  
Hrana – Metoda HPLC za određivanje ksantofila u ribljemu mesu – 2. dio: Određivanje omjera enantiomera astaksantina (CEN/TS 16233-2:2011)  
Foodstuffs – HPLC method for the determination of xanthophylls in fish flesh – Part 2: Identification of the enantiomer ratio of astaxanthin (CEN/TS 16233-2:2011)

### **HZN/TO 570, Sustavi upravljanja energijom**

- HRN EN ISO 50001:2012 en pr  
Sustavi upravljanja energijom – Zahtjevi s uputama za uporabu (ISO 50001:2011; EN ISO 50001:2011)  
Energy management systems – Requirements with guidance for use (ISO 50001:2011; EN ISO 50001:2011)

### **HZN/TO E8, Sustavski vidovi opskrbe električnom energijom**

- HRN EN 50160:2012 en pr  
Naponske karakteristike električne energije iz javnih distribucijskih mreža (EN 50160:2010)  
Voltage characteristics of electricity supplied by public electricity networks (EN 50160:2010)
- HRI CLC/TR 50555:2012 en pr  
Pokazatelji prekida napajanja (CLC/TR 50555:2010+AC:2011)  
Interruption indexes (CLC/TR 50555:2010+AC:2011)
- HRN EN 60196:2012 en pr  
Normirane frekvencije prema IEC-u (IEC 60196:2009; EN 60196:2009)  
IEC standard frequencies (IEC 60196:2009; EN 60196:2009)

### **HZN/TO E20, Električni kabeli**

- HRN EN 50399:2012 en pr  
Opće metode ispitivanja kabela pod djelovanjem vatre – Mjerenje otpuštanja topline i stvaranje dima na kabelima pri ispitivanju širenjem plamena – Ispitni uređaji, postupci, rezultati (EN 50399:2011)  
Common test methods for cables under fire conditions – Heat release and smoke production measurement on cables during flame spread test – Test apparatus, procedures, results (EN 50399:2011)
- HRN EN 50525-1:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – 1. dio: Opći zahtjevi (EN 50525-1:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 1: General requirements (EN 50525-1:2011)
- HRN EN 50525-2-11:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-11: Kabeli za opću primjenu – Savitljivi kabeli s termoplastičnom PVC izolacijom (EN 50525-2-11:2011)

Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-11: Cables for general applications – Flexible cables with thermoplastic PVC insulation (EN 50525-2-11:2011)

- HRN EN 50525-2-12:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-12: Kabeli za opću primjenu – Spiralni priključni kabeli s termoplastičnom PVC izolacijom (EN 50525-2-12:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-12: Cables for general applications – Cables with thermoplastic PVC insulation for extensible leads (EN 50525-2-12:2011)
- HRN EN 50525-2-21:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-21: Kabeli za opću primjenu – Savitljivi kabeli s umreženom elastomernom izolacijom (EN 50525-2-21:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-21: Cables for general applications – Flexible cables with crosslinked elastomeric insulation (EN 50525-2-21:2011)
- HRN EN 50525-2-22:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-22: Kabeli za opću primjenu – Visoko savitljivi kabeli s opletom i s umreženom elastomernom izolacijom (EN 50525-2-22:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-22: Cables for general applications – High flexibility braided cables with crosslinked elastomeric insulation (EN 50525-2-22:2011)
- HRN EN 50525-2-31:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-31: Kabeli za opću primjenu – Jednožilni kabeli bez plašta s termoplastičnom PVC izolacijom (EN 50525-2-31:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-31: Cables for general applications – Single core non-sheathed cables with thermoplastic PVC insulation (EN 50525-2-31:2011)
- HRN EN 50525-2-41:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-41: Kabeli za opću primjenu – Jednožilni kabeli s umreženom silikonskom gumenom izolacijom (EN 50525-2-41:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-41: Cables for general applications – Single core cables with crosslinked silicone rubber insulation (EN 50525-2-41:2011)
- HRN EN 50525-2-42:2012 en pr  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-42: Kabeli za opću primjenu – Jednožilni kabeli bez plašta s umreženom EVA izolacijom (EN 50525-2-42:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-42: Cables for general applications – Single core non-sheathed cables with crosslinked EVA insulation (EN 50525-2-42:2011)

- HRN EN 50525-2-51:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-51: Kabeli za opću primjenu – Uljno postojani upravljački kabeli s termoplastičnom PVC izolacijom (EN 50525-2-51:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-51: Cables for general applications – Oil resistant control cables with thermoplastic PVC insulation (EN 50525-2-51:2011)
- HRN EN 50525-2-71:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-71: Kabeli za opću primjenu – Plosnati kabeli s trakastim (leonskim) vodičem i s termoplastičnom PVC izolacijom (EN 50525-2-71:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-71: Cables for general applications – Flat tinsel cables (cords) with thermoplastic PVC insulation (EN 50525-2-71:2011)
- HRN EN 50525-2-72:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-72: Kabeli za opću primjenu – Plosnati kabeli s odvojivim žilama i s termoplastičnom PVC izolacijom (EN 50525-2-72:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-72: Cables for general applications – Flat divisible cables (cords) with thermoplastic PVC insulation (EN 50525-2-72:2011)
- HRN EN 50525-2-81:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-81: Kabeli za opću primjenu – Kabeli s umreženim elastomernim omotačem za elektroručno zavarivanje (EN 50525-2-81:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-81: Cables for general applications – Cables with crosslinked elastomeric covering for arc welding (EN 50525-2-81:2011)
- HRN EN 50525-2-82:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-82: Kabeli za opću primjenu – Kabeli s umreženom elastomernom izolacijom za ukrasne rasvjetne lance (EN 50525-2-82:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-82: Cables for general applications – Cables with crosslinked elastomeric insulation for decorative chains (EN 50525-2-82:2011)
- HRN EN 50525-2-83:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 2-83: Kabeli za opću primjenu – Višežilni kabeli sa silikonskom gumenom izolacijom (EN 50525-2-83:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-83: Cables for general applications – Multicore cables with crosslinked silicone rubber insulation (EN 50525-2-83:2011)
- HRN EN 50525-3-11:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 3-11: Kabeli s posebnom postojanošću na vatru – Savitljivi kabeli s bezhalogenom termoplastičnom izolacijom i niskim odavanjem dima (EN 50525-3-11:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 3-11: Cables with special fire performance – Flexible cables with halogen-free thermoplastic insulation, and low emission of smoke (EN 50525-3-11:2011)
- HRN EN 50525-3-21:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 3-21: Kabeli s posebnom postojanošću na vatru – Savitljivi kabeli s bezhalogenom umreženom izolacijom i niskim odavanjem dima (EN 50525-3-21:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 3-21: Cables with special fire performance – Flexible cables with halogen-free crosslinked insulation, and low emission of smoke (EN 50525-3-21:2011)
- HRN EN 50525-3-31:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 3-31: Kabeli s posebnom postojanošću na vatru – Jednožilni kabeli bez plašta s bezhalogenom termoplastičnom izolacijom i niskim odavanjem dima (EN 50525-3-31:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 3-31: Cables with special fire performance – Single core non-sheathed cables with halogen-free thermoplastic insulation, and low emission of smoke (EN 50525-3-31:2011)
- HRN EN 50525-3-41:2012 en pr  
Električni kabeli – Niskonaponski energetska kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – Dio 3-41: Kabeli s posebnom postojanošću na vatru – Jednožilni kabeli bez plašta s bezhalogenom umreženom izolacijom i niskim odavanjem dima (EN 50525-3-41:2011)  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 3-41: Cables with special fire performance – Single core non-sheathed cables with halogen-free crosslinked insulation, and low emission of smoke (EN 50525-3-41:2011)

## HZN/TO E23, Električni instalacijski pribor

- HRN 1145:2012 hr izv  
Utikači i utičnice za kućanstvo i slične svrhe – Dvopolne utičnice s bočnim zaštitnim kontaktom, 2P+PE, 16A 250V izmjenične struje – Glavne dimenzije  
Plugs and socket-outlets for household and similar purposes – Two pole socket-outlets with side earthing contact, 2P + PE, 16A 250V a.c. – Main dimensions
- HRN 1146:2012 hr izv  
Utikači i utičnice za kućanstvo i slične svrhe – Dvopolni utikači sa zaštitnim kontaktom, 2P+PE, 16A 250V izmjenične struje – Glavne dimenzije  
Plugs and socket-outlets for household and similar purposes – Two pole plugs with earthing contact, 2P+ PE, 16A 250V a.c. – Main dimensions
- HRN 1147:2012 hr izv  
Utikači i utičnice za kućanstvo i slične svrhe – Dvopolni utikači 2P, 16A 250V izmjenične struje za opremu razreda II – Glavne dimenzije  
Plugs and socket-outlets for household and similar purposes – Two pole plugs for class II appliances – Main dimensions
- HRN EN 60669-1:2002/IS1:2012 en pr  
Sklopke za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (EN 60669-1:1999/IS1:2009)  
Switches for household and similar fixed-electrical installations – Part 1: General requirements (EN 60669-1:1999/IS1:2009)

- HRN EN 60670-1:2007/IS1:2012 en pr  
Kutije i kućišta za elektroinstalacijske pribore za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (EN 60670-1:2005/IS1:2009)  
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements (EN 60670-1:2005/IS1:2009)
- HRN EN 60898-1:2007/IS1:2012 en pr  
Elektroinstalacijski pribor – Instalacijski prekidači za nadstrujnu zaštitu za kućanstvo i slične instalacije – 1. dio: Instalacijski prekidači za rad s izmjeničnom strujom (EN 60898-1:2003/IS1:2007)  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (EN 60898-1:2003/IS1:2007)
- HRN EN 60898-1:2007/IS2:2012 en pr  
Elektroinstalacijski pribor – Instalacijski prekidači za nadstrujnu zaštitu za kućanstvo i slične instalacije – 1. dio: Instalacijski prekidači za rad s izmjeničnom strujom (EN 60898-1:2003/IS2:2007)  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (EN 60898-1:2003/IS2:2007)
- HRN EN 60898-1:2007/IS3:2012 en pr  
Elektroinstalacijski pribor – Instalacijski prekidači za nadstrujnu zaštitu za kućanstvo i slične instalacije – 1. dio: Instalacijski prekidači za rad s izmjeničnom strujom (EN 60898-1:2003/IS3:2007)  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (EN 60898-1:2003/IS3:2007)
- HRN EN 60898-1:2007/IS4:2012 en pr  
Elektroinstalacijski pribor – Instalacijski prekidači za nadstrujnu zaštitu za kućanstvo i slične instalacije – 1. dio: Instalacijski prekidači za rad s izmjeničnom strujom (EN 60898-1:2003/IS4:2007)  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (EN 60898-1:2003/IS4:2007)
- HRN EN 61008-1:2007/IS1:2012 en pr  
Strujne zaštitne sklopke bez združene nadstrujne zaštite za kućanstvo i slične upotrebe (RCCB-i) – 1. dio: Opća pravila (EN 61008-1:2004/IS1:2007)  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) – Part 1: General rules (EN 61008-1:2004/IS1:2007)

### **HZN/TO E31, Eksplozivne atmosfere**

- HRN EN 1710:2009/Ispr.1:2012 en pr  
Oprema i komponente namijenjene uporabi u potencijalno eksplozivnim atmosferama podzemnih rudnika (EN 1710:2005+A1:2008/AC:2010)  
Equipment and components intended for use in potentially explosive atmospheres in underground mines (EN 1710:2005+A1:2008/AC:2010)
- HRN EN 60079-14:2009/Ispr.1:2012 en pr  
Eksplozivne atmosfere – 14. dio: Projektiranje, odabir i izvođenje električnih instalacija (EN 60079-14:2008/AC:2011)  
Explosive atmospheres – Part 14: Electrical installations design, selection and erection (EN 60079-14:2008/AC:2011)

### **HZN/TO E34, Žarulje, svjetiljke i pripadna oprema**

- HRN EN 60061-2:2008/A44:2012 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am44:2011; EN 60061-2:1993/A44:2012)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am44:2011; EN 60061-2:1993/A44:2012)
- HRN EN 60061-3:2008/A45:2012 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am45:2011; EN 60061-3:1993/A45:2012)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am45:2011; EN 60061-3:1993/A45:2012)
- HRN EN 60238:2008/Ispr.1:2012 en pr  
Grla za žarulje s Edisonovim navojem (EN 60238:2004/AC:2005)  
Edison screw lampholders (EN 60238:2004/AC:2005)
- HRN EN 60598-2-13:2008/A1:2012 en pr  
Svjetiljke – Dio 2-13: Posebni zahtjevi – Svjetiljke ukopane u zemlju (IEC 60598-2-13:2006/am1:2011; EN 60598-2-13:2006/A1:2012)  
Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires (IEC 60598-2-13:2006/am1:2011; EN 60598-2-13:2006/A1:2012)
- HRN EN 60598-2-20:2008/Ispr.1:2012 en pr  
Svjetiljke – Dio 2-20: Posebni zahtjevi – Svjetleći lanci (EN 60598-2-20:1997/A1:1998/AC:1998)  
Luminaires – Part 2-20: Particular requirements – Lighting chains (EN 60598-2-20:1997/A1:1998/AC:1998)
- HRN EN 60598-2-20:2008/Ispr.2:2012 en pr  
Svjetiljke – Dio 2-20: Posebni zahtjevi – Svjetleći lanci (EN 60598-2-20:1997/A2:2004/AC:2004)  
Luminaires – Part 2-20: Particular requirements – Lighting chains (EN 60598-2-20:1997/A2:2004/AC:2004)
- HRN EN 61341:2012 en pr  
Metoda za mjerenje jakosti središnjega snopa i kut(ov) a snopa reflektorskih žarulja (IEC/TR 61341:2010; EN 61341:2011)  
Method of measurement of centre beam intensity and beam angle(s) of reflector lamps (IEC/TR 61341:2010; EN 61341:2011)
- HRN EN 61347-2-10:2008/Ispr.1:2012 en pr  
Predspojne naprave – Dio 2-10: Posebni zahtjevi za elektroničke invertore i pretvarače za visokofrekvencijski rad cijevi s hladnim startom i izbijanjem (neonske cijevi) (EN 61347-2-10:2001/AC:2010)  
Lamp controlgear – Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) (EN 61347-2-10:2001/AC:2010)
- HRN EN 61347-2-12:2008/Ispr.1:2012 en pr  
Predspojne naprave – Dio 2-12: Posebni zahtjevi za elektroničke prigušnice koje se napajaju istosmjernom ili izmjeničnom strujom namijenjene žaruljama s izbojem (osim fluorescentnih cijevi) (EN 61347-2-12:2005/AC:2010)  
Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps) (EN 61347-2-12:2005/AC:2010)
- HRN EN 61347-2-2:2008/Ispr.1:2012 en pr  
Predspojne naprave – Dio 2-2: Posebni zahtjevi za niskonaponske pretvarače namijenjene žaruljama sa žarnom niti koji se napajaju istosmjernom ili izmjeničnom strujom (EN 61347-2-2:2001/AC:2003)  
Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (EN 61347-2-2:2001/AC:2003)

- HRN EN 61347-2-2:2008/Ispr.2:2012 en pr  
Predspojne naprave – Dio 2-2: Posebni zahtjevi za niskonaponske pretvarače namijenjene žaruljama sa žarnom niti koji se napajaju istosmjernom ili izmjeničnom strujom (EN 61347-2-2:2001/A1:2006/AC:2006)  
Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down converters for filament lamps (EN 61347-2-2:2001/A1:2006/AC:2006)
- HRN EN 61347-2-2:2008/Ispr.3:2012 en pr  
Predspojne naprave – Dio 2-2: Posebni zahtjevi za niskonaponske pretvarače namijenjene žaruljama sa žarnom niti koji se napajaju istosmjernom ili izmjeničnom strujom (EN 61347-2-2:2001/AC:2010)  
Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down converters for filament lamps (EN 61347-2-2:2001/AC:2010)
- HRN EN 61347-2-7:2009/Ispr.1:2012 en pr  
Predspojne naprave - Dio 2-7: Posebni zahtjevi za elektroničke prigušnice koje se napajaju istosmjernom strujom, za rasvjetu u slučaju nužde (EN 61347-2-7:2006/AC:2010)  
Lamp controlgear – Part 2-7: Particular requirements for d.c. supplied electronic ballasts for emergency lighting (EN 61347-2-7:2006/AC:2010)

### **HZN/TO E38, Mjerni transformatori**

- HRN EN 61869-3:2012 en pr  
Mjerni transformatori – 3. dio: Dodatni zahtjevi za induktivne naponske transformatore (IEC 61869-3:2011; EN 61869-3:2011)  
Instrument transformers – Part 3: Additional requirements for inductive voltage transformers (IEC 61869-3:2011; EN 61869-3:2011)
- HRN EN 61869-5:2012 en pr  
Mjerni transformatori – 5. dio: Dodatni zahtjevi za kapacitivne naponske transformatore (IEC 61869-5:2011; EN 61869-5:2011)  
Instrument transformers – Part 5: Additional requirements for capacitor voltage transformers (IEC 61869-5:2011; EN 61869-5:2011)

### **HZN/TO E44, Elektrotehnička sigurnost strojeva**

- HRN EN 60204-33:2012 en pr  
Sigurnost strojeva – Električna oprema strojeva – 33. dio: Zahtjevi za izradu poluvodičke opreme (IEC 60204-33:2009, MOD; EN 60204-33:2011)  
Safety of machinery – Electrical equipment of machines – Part 33: Requirements for semiconductor fabrication equipment (IEC 60204-33:2009, MOD; EN 60204-33:2011)

### **HZN/TO E62, Električna oprema u medicinskoj praksi**

- HRN EN 60601-2-45:2012 en pr  
Medicinska električna oprema – Dio 2-45: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke mamografske rendgenske opreme i mamografskih stereotaktičkih naprava (IEC 60601-2-45:2011; EN 60601-2-45:2011)  
Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices (IEC 60601-2-45:2011; EN 60601-2-45:2011)
- HRN EN 62464-2:2012 en pr  
Uređaji za dobivanje medicinskih slika pomoću magnetske rezonancije – 2. dio: Kriteriji (mjerila) razredbe impulsnih nizova (IEC 62464-2:2010; EN 62464-2:2011)

Magnetic resonance equipment for medical imaging – Part 2: Classification criteria for pulse sequences (IEC 62464-2:2010; EN 62464-2:2011)

- HRN EN 80001-1:2012 en pr  
Primjena upravljanja rizikom za mreže informacijske tehnologije (IT-mreže) u koje su uključeni medicinski uređaji – 1. dio: Uloge, odgovornosti i područje djelovanja (IEC 80001-1:2010; EN 80001-1:2011)  
Application of risk management for IT-networks incorporating medical devices – Part 1: Roles, responsibilities and activities (IEC 80001-1:2010; EN 80001-1:2011)

### **HZN/TO E64, Električne instalacije i zaštita od električnog udara**

- HRI CLC/TR 50480:2012 en pr  
Određivanje presjeka vodiča i odabir zaštitnih naprava (CLC/TR 50480:2011)  
Determination of cross-sectional area of conductors and selection of protective devices (CLC/TR 50480:2011)
- HRN IEC 60050-826:2012 hr pp  
Međunarodni elektrotehnički rječnik – 826. dio: Električne instalacije (IEC 60050-826:2004)  
International Electrotechnical Vocabulary – Part 826: Electrical installations (IEC 60050-826:2004)
- HRN HD 60364-4-444:2011/Ispr.1:2012 en pr  
Niskonaponske električne instalacije – Dio 4-444: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih poremećaja (HD 60364-4-444:2010/AC:2012)  
Low-voltage electrical installations – Part 4-444: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (HD 60364-4-444:2010/AC:2012)
- HRN HD 60364-5-56:2011/A1:2012 en pr  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (HD 60364-5-56:2010/A1:2011)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (HD 60364-5-56:2010/A1:2011)
- HRN HD 60364-7-701:2007/Ispr.1:2012 en pr  
Niskonaponske električne instalacije – Dio 7-701: Zahtjevi za posebne instalacije ili prostore – Prostori s kadmom ili tušem (HD 60364-7-701:2007/AC:2011)  
Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower (HD 60364-7-701:2007/AC:2011)
- HRI IEC/TR 60479-4:2012 en pr  
Učinci struje na ljude i domaće životinje – 4. dio: Učinci udara struje (IEC/TR 60479-4:2011)  
Effects of current on human beings and livestock – Part 4: Effects of lightning strokes (IEC/TR 60479-4:2011)

### **HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa**

- HRN EN 61784-3-18:2012 en pr  
Industrijske komunikacijske mreže – Profili – Dio 3-18: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Dodatne specifikacije za CPF 18 (IEC 61784-3-18:2011; EN 61784-3-18:2011)  
Industrial communication networks – Profiles – Part 3-18: Functional safety fieldbuses – Additional specifications for CPF 18 (IEC 61784-3-18:2011; EN 61784-3-18:2011)
- HRN EN 61804-3:2012 en pr  
Funkcijski blokovi (FB) za vođenje procesa – 3. dio: Jezik za opis elektroničkih uređaja (EDDL) (IEC 61804-3:2010; EN 61804-3:2011)

Function Blocks (FB) for process control – Part 3: Electronic Device Description Language (EDDL) (IEC 61804-3:2010; EN 61804-3:2011)

HRN CLC/TR 62685:2012 en pr  
Industrijske komunikacijske mreže – Profili – Uputa za procjenu sigurnosnih uređaja koji upotrebljavaju komunikacijske profile za funkcijsku sigurnost (FSCPs) prema IEC 61784-3 (IEC/TR 62685:2010; CLC/TR 62685:2011)  
Industrial communication networks – Profiles – Assessment guideline for safety devices using IEC 61784-3 functional safety communication profiles (FSCPs) (IEC/TR 62685:2010; CLC/TR 62685:2011)

### **HZN/TO E69, Cestovna i industrijska električna vozila**

HRN EN 61851-1:2012 en pr  
Sustav za vodljivo punjenje električnih vozila – 1. dio: Opći zahtjevi (IEC 61851-1:2010; EN 61851-1:2011)  
Electric vehicle conductive charging system – Part 1: General requirements (IEC 61851-1:2010; EN 61851-1:2011)

HRN EN 62576:2012 en pr  
Električni dvoslojni kondenzatori za uporabu u hibridnim električnim vozilima – Ispitne metode električnih značajki (IEC 62576:2009; EN 62576:2010)  
Electric double-layer capacitors for use in hybrid electric vehicles – Test methods for electrical characteristics (IEC 62576:2009; EN 62576:2010)

### **HZN/TO E78, Rad pod naponom**

HRN EN 50286:2008/Ispr.1:2012 en pr  
Električna izolacijska zaštitna odjeća za uporabu u postrojenjima niskog napona (EN 50286:1999/AC:2004)  
Electrical insulating protective clothing for low-voltage installations (EN 50286:1999/AC:2004)

### **HZN/TO E85, Oprema za mjerenje električnih i elektromagnetskih veličina**

HRN EN 61557-13:2012 en pr  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1000 V izmjenične struje i 1500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor mjera zaštite – 13. dio: Ručna strujna kliješta i senzori za mjerenje struje curenja u sustavu za distribuciju električne energije (IEC 61557-13:2011; EN 61557-13:2011)  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 13: Hand-held and hand-manipulated current clamps and sensors for measurement of leakage currents in electrical distribution systems (IEC 61557-13:2011; EN 61557-13:2011)

### **HZN/TO E99, Električne instalacije iznad 1kV izmjenične i 1,5 kV istosmjerne struje**

HRN EN 50522:2012 en pr  
Uzemljenje električnih postrojenja nazivnih izmjeničnih napona iznad 1kV (EN 50522:2010)  
Earthing of power installations exceeding 1 kV a.c. (EN 50522:2010)

HRN EN 61936-1:2012 en pr  
Električna postrojenja nazivnih izmjeničnih napona iznad 1kV – 1. dio: Opća pravila (IEC 61936-1:2010, MOD; EN 61936-1:2010+AC:2011)  
Power installations exceeding 1 kV a.c. – Part 1: Common rules (IEC 61936-1:2010, MOD; EN 61936-1:2010+AC:2011)

### **HZN/TO E100, Audio, video i multimedijski sustavi te njihova oprema**

HRN EN 60268-7:2012 en pr  
Oprema audiosustava – 7. dio: Naglavne i ušne slušalice (IEC 60268-7:2010; EN 60268-7:2011)  
Sound system equipment – Part 7: Headphones and earphones (IEC 60268-7:2010; EN 60268-7:2011)

HRN EN 60461:2012 en pr  
Vremenski i upravljački kod (IEC 60461:2010; EN 60461:2011)  
Time and control code (IEC 60461:2010; EN 60461:2011)

HRN EN 60728-3:2012 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 3. dio: Aktivna širokopojasna oprema za mreže suosnih kabela (IEC 60728-3:2010; EN 60728-3:2011)  
Cable networks for television signals, sound signals and interactive services – Part 3: Active wideband equipment for cable networks (IEC 60728-3:2010; EN 60728-3:2011)

HRN EN 60728-6:2012 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 6. dio: Optička (optoelektronička) oprema (IEC 60728-6:2011; EN 60728-6:2011)  
Cable networks for television signals, sound signals and interactive services – Part 6: Optical equipment (IEC 60728-6:2011; EN 60728-6:2011)

HRN EN 61834-4:2008/A1:2012 en pr  
Recording – Helical-scan digital video cassette recording system using 6,35 mm magnetic tape for consumer use (525-60, 625-50, 1125-60 and 1250-50 systems) – Part 4: Pack header table and contents (IEC 61834-4:1998/am1:2010; EN 61834-4:1998/A1:2011)

HRN EN 61937-10:2012 en pr  
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 10: Non-linear PCM bitstreams according to the MPEG-4 Audio Lossless Coding (ALS) format (IEC 61937-10:2011; EN 61937-10:2011)

HRN EN 61966-12-1:2012 en pr  
Multimedijski sustavi i oprema – Mjerenje i upravljanje bojama – Dio 12-1: Metapodaci (METADATA) za identifikaciju skale (opsega) boja (IEC 61966-12-1:2011; EN 61966-12-1:2011)  
Multimedia systems and equipment – Colour measurement and management – Part 12-1: Metadata for identification of colour gamut (Gamut ID) (IEC 61966-12-1:2011; EN 61966-12-1:2011)

HRN EN 62216:2012 en pr  
Digitalni zemaljski televizijski prijemnici za DVB-T sustav (IEC 62216:2009; EN 62216:2011)  
Digital terrestrial television receivers for the DVB-T system (IEC 62216:2009; EN 62216:2011)

HRN EN 62455:2012 en pr  
Internet protokol (IP) i pristup usluzi utemeljenoj na prenošenju dugačkog niza (podataka) (IEC 62455:2010; EN 62455:2011)  
Internet protocol (IP) and transport stream (TS) based service access (IEC 62455:2010; EN 62455:2011)

HRN EN 62458:2012 en pr  
Oprema audiosustava – Elektroakustički pretvarači – Mjerenje parametara velikog signala (IEC 62458:2010; EN 62458:2011)  
Sound system equipment – Electroacoustic transducers – Measurement of large signal parameters (IEC 62458:2010; EN 62458:2011)



- HRN EN 62459:2012 en pr  
Oprema audiosustava – Elektroakustički pretvarači – Mjerenje zaostalih dijelova (IEC 62459:2010; EN 62459:2011)  
Sound system equipment – Electroacoustic transducers – Measurement of suspension parts (IEC 62459:2010; EN 62459:2011)
- HRN EN 62481-3:2012 en pr  
Digital living network alliance (DLNA) home networked device interoperability guidelines – Part 3: Link protection (IEC 62481-3:2010; EN 62481-3:2011)
- HRN EN 62524:2012 en pr  
Multimedia systems and equipment – Multimedia e-publishing and e-books – Reader's format for e-publishing (IEC 62524:2009; EN 62524:2011)
- HRN EN 62571:2012 en pr  
Digital audiobook file format and player requirements (IEC 62571:2011; EN 62571:2011)
- HRN EN 62574:2012 en pr  
Audio, video i multimedijski sustavi – Opće dodjeljivanje kanala višekanalnog audia (IEC 62574:2011; EN 62574:2011)  
Audio, video and multimedia systems – General channel assignment of multichannel audio (IEC 62574:2011; EN 62574:2011)
- HRN EN 62637-1:2012 en pr  
Sučelje za punjenje baterije za male ručne multimedijске uređaje – 1. dio: Valjkasto sučelje od 2 mm (IEC 62637-1:2011; EN 62637-1:2011)  
Battery charging interface for small handheld multimedia devices – Part 1: 2 mm barrel interface (IEC 62637-1:2011; EN 62637-1:2011)
- HRN EN 62637-2:2012 en pr  
Sučelje za punjenje baterije za male ručne multimedijске uređaje – 2. dio: Ispitivanje sukladnosti valjkastog sučelja od 2 mm (IEC 62637-2:2011; EN 62637-2:2011)  
Battery charging interface for small handheld multimedia devices – Part 2: 2 mm barrel type interface conformance testing (IEC 62637-2:2011; EN 62637-2:2011)

### **HZN/TO E106, Elektromagnetska polja u ljudskome okolišu**

- HRN EN 50360:2002/Ispr.1:2012 en pr  
Norma za proizvode za pokazivanje sukladnosti pokretnih telefona s temeljnim ograničenjima koja se odnose na izloženost ljudi elektromagnetskim poljima (300 MHz-3 GHz) (EN 50360:2001/AC:2006)  
Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz-3 GHz) (EN 50360:2001/AC:2006)
- HRN EN 50364:2012 en pr  
Ograničenje izloženosti ljudi elektromagnetskim poljima uređaja koji rade u frekvencijskom rasponu od 0 Hz do 10 GHz, a koriste se u elektroničkom nadzoru proizvoda (EAS), radiofrekvencijskom prepoznavanju (RFID) i sličnim primjenama (EN 50364:2010)  
Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications (EN 50364:2010)
- HRN EN 50383:2012 en pr  
Osnovna norma za proračun i mjerenje jakosti elektromagnetskog polja i gustoće apsorbirane snage koja se odnosi na izloženost ljudi radijskim baznim postajama i nepokretnim krajnjim postajama u bežičnim telekomunikacijskim sustavima (110 MHz – 40 GHz) (EN 50383:2010)  
Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for wireless telecommunication systems (110 MHz – 40 GHz) (EN 50383:2010)
- HRN EN 50401:2007/A1:2012 en pr  
Norma za proizvode za pokazivanje sukladnosti nepokretne opreme za radijsko odašiljanje (110 MHz – 40 GHz) namijenjene za uporabu u bežičnim telekomunikacijskim mrežama, s temeljnim ograničenjima ili referencijskim razinama koje se odnose na izloženost pučanstva radiofrekvencijskim elektromagnetskim poljima, kada je puštena u rad (EN 50401:2006/A1:2011)  
Product standard to demonstrate the compliance of fixed equipment for radio transmission (110 MHz – 40 GHz) intended for use in wireless telecommunication networks with the basic restrictions or the reference levels related to general public exposure to radio frequency electromagnetic fields, when put into service (EN 50401:2006/A1:2011)
- HRN EN 50413:2012 en pr  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz – 300 GHz) (EN 50413:2008)  
Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz – 300 GHz) (EN 50413:2008)
- HRN EN 50492:2012 en pr  
Osnovna norma za in-situ mjerenja jakosti elektromagnetskog polja s obzirom na izloženost ljudi u blizini baznih postaja (EN 50492:2008)  
Basic standard for the in-situ measurement of electromagnetic field strength related to human exposure in the vicinity of base stations (EN 50492:2008)
- HRN EN 50496:2012 en pr  
Određivanje izloženosti radnika elektromagnetskim poljima i procjena rizika na lokaciji radiodifuzijskog odašiljača (EN 50496:2008)  
Determination of workers' exposure to electromagnetic fields and assessment of risk at a broadcast site (EN 50496:2008)
- HRN EN 50499:2012 en pr  
Postupak procjene izloženosti radnika elektromagnetskim poljima (EN 50499:2008)  
Procedure for the assessment of the exposure of workers to electromagnetic fields (EN 50499:2008)
- HRN EN 50519:2012 en pr  
Procjena izloženosti radnika električnim i magnetskim poljima industrijske opreme za indukcijsko zagrijavanje (EN 50519:2010)  
Assessment of workers' exposure to electric and magnetic fields of industrial induction heating equipment (EN 50519:2010)
- HRN EN 50527-1:2012 en pr  
Postupak za procjenu izloženosti elektromagnetskim poljima radnika koji nose aktivne medicinske implantate – 1. dio: Općenito (EN 50527-1:2010)  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 1: General (EN 50527-1:2010)
- HRN EN 50554:2012 en pr  
Osnovna norma za in-situ procjenu lokacije radiodifuzijskih odašiljača s obzirom na izloženost opće populacije radiofrekvencijskim elektromagnetskim poljima (EN 50554:2010)  
Basic standard for the in-situ assessment of a broadcast site related to general public exposure to radio frequency electromagnetic fields (EN 50554:2010)

- HRN EN 62110:2012 en pr  
Razine električnih i magnetskih polja koja generiraju energetska sustavi izmjenične struje – Postupci mjerenja s obzirom na izloženost opće populacije (IEC 62110:2009; EN 62110:2009)  
Electric and magnetic field levels generated by AC power systems – Measurement procedures with regard to public exposure (IEC 62110:2009; EN 62110:2009)
- HRN EN 62209-2:2012 en pr  
Izloženost ljudi radiofrekvencijskim poljima ručnih uređaja i uređaja za bežičnu komunikaciju postavljenih na tijelo – Modeli ljudskog tijela, instrumenti i postupci – 2. dio: Postupak određivanja gustoće apsorbirane snage (SAR) za bežične komunikacijske uređaje koji se koriste u neposrednoj blizini ljudskog tijela (frekvencijski raspon od 30 MHz do 6 GHz) (IEC 62209-2:2010; EN 62209-2:2010)  
Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) (IEC 62209-2:2010; EN 62209-2:2010)
- HRN EN 62479:2012 en pr  
Ocjenjivanje sukladnosti elektroničke i električne opreme male snage s osnovnim ograničenjima s obzirom na izloženost ljudi elektromagnetskim poljima (10 MHz – 300 GHz) (IEC 62479:2010, MOD; EN 62479:2010)  
Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) (IEC 62479:2010, MOD; EN 62479:2010)

#### **HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama**

- HRN EN 61000-6-2:2008/Ispr.1:2012 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 6-2: Norme srodnih područja – Otpornost za industrijska područja (EN 61000-6-2:2005/AC:2005)  
Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments (EN 61000-6-2:2005/AC:2005)

#### **HZN/TO T4, Normizacija u telekomunikacijama**

- HRN ETS 300 551 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – GSM Public Land Mobile Network (PLMN) access reference configuration (GSM 04.02) (ETS 300 551 ed.1:1994)
- HRN ETS 300 552 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile Station – Base Station System (MS - BSS) interface – Channel structures and access capabilities (GSM 04.03) (ETS 300 552 ed.1:1994)
- HRN ETS 300 553 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Layer 1 – General requirements (GSM 04.04) (ETS 300 553 ed.1:1994)
- HRN ETS 300 554 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Data Link (DL) layer – General aspects (GSM 04.05) (ETS 300 554 ed.1:1994)
- HRN ETS 300 555 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile Station – Base Station System (MS - BSS) interface – Data Link (DL) layer specification (GSM 04.06) (ETS 300 555 ed.1:1994)

- HRN ETS 300 556 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile radio interface signalling layer 3 – General aspects (GSM 04.07) (ETS 300 556 ed.1:1995)
- HRN ETS 300 557 V10:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08 version 4.21.1) (ETS 300 557 ed.10:1998)
- HRN ETS 300 557 V11:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08 version 4.22.1) (ETS 300 557 ed.11:1998)
- HRN ETS 300 557 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.1:1995)
- HRN ETS 300 557 V12:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08 version 4.23.1) (ETS 300 557 ed.12:1999)
- HRN ETS 300 557 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.2:1995)
- HRN ETS 300 557 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.3:1996)
- HRN ETS 300 557 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.4:1996)
- HRN ETS 300 557 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.5:1996)
- HRN ETS 300 557 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.6:1996)
- HRN ETS 300 557 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.7:1997)
- HRN ETS 300 557 V8:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08) (ETS 300 557 ed.8:1997)
- HRN ETS 300 557 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface – Layer 3 specification (GSM 04.08 version 4.19.2) (ETS 300 557 ed.9:1997)
- HRN ETS 300 558 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile radio interface layer 3 – Supplementary services specification – General aspects (GSM 04.10) (ETS 300 558 ed.1:1995+A1:1995)
- HRN ETS 300 558 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface layer 3 – Supplementary services specification – General aspects (GSM 04.10) (ETS 300 558 ed.2:1996)
- HRN ETS 300 559 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (GSM 04.11) (ETS 300 559 ed.1:1995)
- HRN ETS 300 559 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (GSM 04.11) (ETS 300 559 ed.2:1995)

- HRN ETS 300 559 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (GSM 04.11) (ETS 300 559 ed.3:1996)
- HRN ETS 300 559 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (GSM 04.11) (ETS 300 559 ed.4:1996)
- HRN ETS 300 560 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface (GSM 04.12) (ETS 300 560 ed.1:1995)
- HRN ETS 300 560 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface (GSM 04.12) (ETS 300 560 ed.2:1996)
- HRN ETS 300 560 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface (GSM 04.12) (ETS 300 560 ed.3:1996)
- HRN ETS 300 561 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Performance requirements on the mobile radio interface (GSM 04.13) (ETS 300 561 ed.1:1995)
- HRN ETS 300 561 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Performance requirements on the mobile radio interface (GSM 04.13) (ETS 300 561 ed.2:1996)
- HRN ETS 300 561 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Performance requirements on the mobile radio interface (GSM 04.13) (ETS 300 561 ed.3:1996)
- HRN ETS 300 562 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Rate adaptation on the Mobile Station – Base Station System (MS - BSS) interface (GSM 04.21) (ETS 300 562 ed.1:1994)
- HRN ETS 300 562 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Rate adaptation on the Mobile Station – Base Station System (MS - BSS) interface (GSM 04.21) (ETS 300 562 ed.2:1995)
- HRN ETS 300 562 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Rate adaptation on the Mobile Station – Base Station System (MS - BSS) interface (GSM 04.21) (ETS 300 562 ed.3:1995)
- HRN ETS 300 563 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio Link Protocol (RLP) for data and telematic services on the Mobile Station – Base Station System (MS - BSS) interface and the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 04.22) (ETS 300 563 ed.1:1994+A1:1995)
- HRN ETS 300 563 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio Link Protocol (RLP) for data and telematic services on the Mobile Station – Base Station System (MS - BSS) interface and the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 04.22 version 4.5.1) (ETS 300 563 ed.2:1998)
- HRN ETS 300 564 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile radio interface layer 3 – Supplementary services specification – Formats and coding (GSM 04.80) (ETS 300 564 ed.1:1995)
- HRN ETS 300 564 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface layer 3 – Supplementary services specification – Formats and coding (GSM 04.80) (ETS 300 564 ed.2:1996)
- HRN ETS 300 564 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile radio interface layer 3 – Supplementary services specification – Formats and coding (GSM 04.80) (ETS 300 564 ed.3:1996)
- HRN ETS 300 565 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Line identification supplementary services – Stage 3 (GSM 04.81) (ETS 300 565 ed.1:1995)
- HRN ETS 300 566 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Call Forwarding (CF) supplementary services – Stage 3 (GSM 04.82) (ETS 300 566 ed.1:1995)
- HRN ETS 300 566 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Call Forwarding (CF) supplementary services – Stage 3 (GSM 04.82) (ETS 300 566 ed.2:1996)
- HRN ETS 300 567 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Call Waiting (CW) and Call Hold (HOLD) supplementary services – Stage 3 (GSM 04.83) (ETS 300 567 ed.1:1995)
- HRN ETS 300 567 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Call Waiting (CW) and Call Hold (HOLD) supplementary services – Stage 3 (GSM 04.83) (ETS 300 567 ed.2:1996)
- HRN ETS 300 568 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Multi Party (MPPTY) supplementary services – Stage 3 (GSM 04.84) (ETS 300 568 ed.1:1995)
- HRN ETS 300 569 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Closed User Group (CUG) supplementary services – Stage 3 (GSM 04.85) (ETS 300 569 ed.1:1995)
- HRN ETS 300 569 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Closed User Group (CUG) supplementary services – Stage 3 (GSM 04.85) (ETS 300 569 ed.2:1996)
- HRN ETS 300 570 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Advice of Charge (AoC) supplementary services – Stage 3 (GSM 04.86) (ETS 300 570 ed.1:1995)
- HRN ETS 300 571 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Call Barring (CB) supplementary services – Stage 3 (GSM 04.88) (ETS 300 571 ed.1:1995)
- HRN ETS 300 571 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Call Barring (CB) supplementary services – Stage 3 (GSM 04.88) (ETS 300 571 ed.2:1996)
- HRN ETS 300 572 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Unstructured Supplementary Service Data (USSD) – Stage 3 (GSM 04.90) (ETS 300 572 ed.1:1995)

- HRN ETS 300 573 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Physical layer on the radio path – General description (GSM 05.01) (ETS 300 573 ed.1:1994)
- HRN ETS 300 573 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Physical layer on the radio path – General description (GSM 05.01) (ETS 300 573 ed.2:1995)
- HRN ETS 300 573 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Physical layer on the radio path – General description (GSM 05.01) (ETS 300 573 ed.3:1995)
- HRN ETS 300 573 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Physical layer on the radio path – General description (GSM 05.01) (ETS 300 573 ed.4:1996)
- HRN ETS 300 574 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Multiplexing and multiple access on the radio path (GSM 05.02) (ETS 300 574 ed.1:1994)
- HRN ETS 300 574 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02) (ETS 300 574 ed.2:1996)
- HRN ETS 300 574 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02) (ETS 300 574 ed.3:1996)
- HRN ETS 300 574 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02) (ETS 300 574 ed.4:1996)
- HRN ETS 300 574 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02) (ETS 300 574 ed.5:1997)
- HRN ETS 300 574 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02 version 4.9.1) (ETS 300 574 ed.6:1998)
- HRN ETS 300 574 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Multiplexing and multiple access on the radio path (GSM 05.02 version 4.10.1) (ETS 300 574 ed.7:1999)
- HRN ETS 300 575 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Channel coding (GSM 05.03) (ETS 300 575 ed.1:1994)
- HRN ETS 300 575 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Channel coding (GSM 05.03) (ETS 300 575 ed.2:1995+A1:1996)
- HRN ETS 300 575 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Channel coding (GSM 05.03 version 4.4.1) (ETS 300 575 ed.3:1997)
- HRN ETS 300 575 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Channel coding (GSM 05.03 version 4.5.1) (ETS 300 575 ed.4:1997)
- HRN ETS 300 576 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Modulation (GSM 05.04) (ETS 300 576 ed.1:1994)
- HRN ETS 300 577 V10:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.18.1) (ETS 300 577 ed.10:1997)
- HRN ETS 300 577 V11:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.19.1) (ETS 300 577 ed.11:1997)
- HRN ETS 300 577 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.1:1994)
- HRN ETS 300 577 V12:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.20.1) (ETS 300 577 ed.12:1998)
- HRN ETS 300 577 V13:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.21.1) (ETS 300 577 ed.13:1998)
- HRN ETS 300 577 V14:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.22.2) (ETS 300 577 ed.14:1998)
- HRN ETS 300 577 V15:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05 version 4.23.1) (ETS 300 577 ed.15:1999)
- HRN ETS 300 577 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.2:1995)
- HRN ETS 300 577 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.3:1995)
- HRN ETS 300 577 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.4:1996)
- HRN ETS 300 577 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.5:1996)
- HRN ETS 300 577 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.6:1996)
- HRN ETS 300 577 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.7:1996)
- HRN ETS 300 577 V8:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.8:1997)
- HRN ETS 300 577 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio transmission and reception (GSM 05.05) (ETS 300 577 ed.9:1997)
- HRN ETS 300 578 V10:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08 version 4.19.1) (ETS 300 578 ed.10:1997)
- HRN ETS 300 578 V11:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08 version 4.20.1) (ETS 300 578 ed.11:1998)
- HRN ETS 300 578 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.1:1995)

- HRN ETS 300 578 V12:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08 version 4.21.1) (ETS 300 578 ed.12:1998)
- HRN ETS 300 578 V13:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08 version 4.22.0) (ETS 300 578 ed.13:1999)
- HRN ETS 300 578 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.2:1995)
- HRN ETS 300 578 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.3:1995)
- HRN ETS 300 578 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.4:1996)
- HRN ETS 300 578 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.5:1996)
- HRN ETS 300 578 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.6:1996)
- HRN ETS 300 578 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.7:1996)
- HRN ETS 300 578 V8:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08) (ETS 300 578 ed.8:1997)
- HRN ETS 300 578 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem link control (GSM 05.08 version 4.18.3) (ETS 300 578 ed.9:1997)
- HRN ETS 300 579 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.1:1994)
- HRN ETS 300 579 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.2:1995)
- HRN ETS 300 579 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.3:1995)
- HRN ETS 300 579 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.4:1996)
- HRN ETS 300 579 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.5:1996)
- HRN ETS 300 579 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Radio subsystem synchronization (GSM 05.10) (ETS 300 579 ed.6:1996)
- HRN ETS 300 582 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (GSM 07.01) (ETS 300 582 ed.1:1994)
- HRN ETS 300 582 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (GSM 07.01) (ETS 300 582 ed.2:1995)
- HRN ETS 300 582 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (GSM 07.01) (ETS 300 582 ed.3:1996)
- HRN ETS 300 582 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (GSM 07.01) (ETS 300 582 ed.4:1996)
- HRN ETS 300 583 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities (GSM 07.02) (ETS 300 583 ed.1:1994)
- HRN ETS 300 584 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities (GSM 07.03) (ETS 300 584 ed.1:1994)
- HRN ETS 300 585 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05) (ETS 300 585 ed.1:1994+A1:1995)
- HRN ETS 300 585 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05) (ETS 300 585 ed.2:1996)
- HRN ETS 300 585 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05) (ETS 300 585 ed.3:1996)
- HRN ETS 300 585 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05) (ETS 300 585 ed.4:1996)
- HRN ETS 300 585 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05) (ETS 300 585 ed.5:1997)
- HRN ETS 300 586 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Use of the V series Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface at the Mobile Station (MS) for Mobile Termination (MT) configuration (GSM 07.06) (ETS 300 586 ed.1:1994)
- HRN ETS 300 586 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Use of the V series Data Terminal Equipment – Data Circuit terminating Equipment (DTE - DCE) interface at the Mobile Station (MS) for Mobile Termination (MT) configuration (GSM 07.06) (ETS 300 586 ed.2:1995)

- HRN ETS 300 588 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station System – Mobile-services Switching Centre (BSS - MSC) interface – Layer 1 specification (GSM 08.04) (ETS 300 588 ed.1:1994)
- HRN ETS 300 589 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Signalling transport mechanism specification for the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06) (ETS 300 589 ed.1:1994)
- HRN ETS 300 589 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Signalling transport mechanism specification for the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06) (ETS 300 589 ed.2:1995)
- HRN ETS 300 590 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08) (ETS 300 590 ed.1:1994)
- HRN ETS 300 590 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08) (ETS 300 590 ed.2:1995)
- HRN ETS 300 590 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08) (ETS 300 590 ed.3:1996)
- HRN ETS 300 590 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08) (ETS 300 590 ed.4:1996)
- HRN ETS 300 590 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08) (ETS 300 590 ed.5:1996)
- HRN ETS 300 590 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile-services Switching Centre – Base Station System (MSC - BSS) interface – Layer 3 specification (GSM 08.08 version 4.12.1) (ETS 300 590 ed.6:1998)
- HRN ETS 300 591 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Rate adaption on the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.20) (ETS 300 591 ed.1:1994)
- HRN ETS 300 591 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Rate adaption on the Base Station System – Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.20) (ETS 300 591 ed.2:1995)
- HRN ETS 300 592 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – General aspects (GSM 08.51) (ETS 300 592 ed.1:1994)
- HRN ETS 300 592 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – General aspects (GSM 08.51) (ETS 300 592 ed.2:1995)
- HRN ETS 300 593 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Interface principles (GSM 08.52) (ETS 300 593 ed.1:1994)
- HRN ETS 300 593 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Interface principles (GSM 08.52) (ETS 300 593 ed.2:1995)
- HRN ETS 300 593 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Interface principles (GSM 08.52) (ETS 300 593 ed.3:1996)
- HRN ETS 300 594 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 1 structure of physical circuits (GSM 08.54) (ETS 300 594 ed.1:1994)
- HRN ETS 300 594 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 1 structure of physical circuits (GSM 08.54) (ETS 300 594 ed.2:1995)
- HRN ETS 300 595 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 2 specification (GSM 08.56) (ETS 300 595 ed.1:1994)
- HRN ETS 300 596 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 3 specification (GSM 08.58) (ETS 300 596 ed.1:1994)
- HRN ETS 300 596 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 3 specification (GSM 08.58) (ETS 300 596 ed.2:1995)
- HRN ETS 300 596 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 3 specification (GSM 08.58) (ETS 300 596 ed.3:1996)
- HRN ETS 300 596 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station Controller – Base Transceiver Station (BSC - BTS) interface – Layer 3 specification (GSM 08.58) (ETS 300 596 ed.4:1996)
- HRN ETS 300 597 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – In-band control of remote transcoders and rate adaptors (GSM 08.60) (ETS 300 597 ed.1:1994)
- HRN ETS 300 597 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – In-band control of remote transcoders and rate adaptors for full rate traffic channels (GSM 08.60) (ETS 300 597 ed.2:1995)
- HRN ETS 300 597 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – In-band control of remote transcoders and rate adaptors for Enhanced Full Rate (EFR) and full rate traffic channels (GSM 08.60 version 4.4.1) (ETS 300 597 ed.3:1998)
- HRN ETS 300 598 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – In-band control of remote transcoders and rate adaptors for half rate traffic channels (GSM 08.61) (ETS 300 598 ed.1:1995)
- HRN ETS 300 599 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile Application Part (MAP) specification (GSM 09.02) (ETS 300 599 ed.1:1995+A1:1995)
- HRN ETS 300 599 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Mobile Application Part (MAP) specification (GSM 09.02) (ETS 300 599 ed.2:1995)

- HRN ETS 300 599 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02) (ETS 300 599 ed.3:1996)
- HRN ETS 300 599 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02) (ETS 300 599 ed.4:1997)
- HRN ETS 300 599 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02) (ETS 300 599 ed.5:1997)
- HRN ETS 300 599 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02 version 4.16.1) (ETS 300 599 ed.6:1997)
- HRN ETS 300 599 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02 version 4.17.1) (ETS 300 599 ed.7:1998)
- HRN ETS 300 599 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Application Part (MAP) specification (GSM 09.02 version 4.19.1) (ETS 300 599 ed.9:2000)
- HRN ETS 300 600 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN) (GSM 09.03) (ETS 300 600 ed.1:1995)
- HRN ETS 300 601 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN) (GSM 09.04) (ETS 300 601 ed.1:1994)
- HRN ETS 300 602 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Interworking between the Public Land Mobile Network (PLMN) and the Packet Switched Public Data Network (PSPDN) for Packet Assembly/Disassembly (PAD) facility access (GSM 09.05) (ETS 300 602 ed.1:1994)
- HRN ETS 300 603 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Interworking between a Public Land Mobile Network (PLMN) and a Packet Switched Public Data Network/Integrated Services Digital Network (PSPDN/ISDN) for the support of packet switched data transmission services (GSM 09.06) (ETS 300 603 ed.1:1994+A1:1995)
- HRN ETS 300 604 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.1:1994)
- HRN ETS 300 604 V2:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.2:1995)
- HRN ETS 300 604 V3:2012 en pr  
European digital cellular telecommunications system (Phase 2) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.3:1995)
- HRN ETS 300 604 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.4:1996)
- HRN ETS 300 604 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.5:1996)
- HRN ETS 300 604 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07) (ETS 300 604 ed.6:1997)
- HRN ETS 300 604 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07 version 4.13.1) (ETS 300 604 ed.7:1999)
- HRN ETS 300 605 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Information element mapping between Mobile Station – Base Station System (MS - BSS) and Base Station System – Mobile-services Switching Centre (BSS – MSC) Signalling procedures and the Mobile Application Part (MAP) (GSM 09.10) (ETS 300 605 ed.1:1995)
- HRN ETS 300 605 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Information element mapping between Mobile Station – Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS – MSC) Signalling procedures and the Mobile Application Part (MAP) (GSM 09.10) (ETS 300 605 ed.2:1996)
- HRN ETS 300 605 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Information element mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC) signalling procedures and the Mobile Application Part (MAP) (GSM 09.10 version 4.4.1) (ETS 300 605 ed.3:1998)
- HRN ETS 300 606 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Signalling interworking for supplementary services (GSM 09.11) (ETS 300 606 ed.1:1994+A1:1995)
- HRN ETS 300 606 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Signalling interworking for supplementary services (GSM 09.11) (ETS 300 606 ed.2:1996)
- HRN ETS 300 608 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11) (ETS 300 608 ed.1:1995+A1:1995)
- HRN ETS 300 608 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11) (ETS 300 608 ed.2:1996)

- HRN ETS 300 608 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11) (ETS 300 608 ed.3:1996)
- HRN ETS 300 608 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11) (ETS 300 608 ed.4:1996)
- HRN ETS 300 608 V5:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11) (ETS 300 608 ed.5:1997)
- HRN ETS 300 608 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11 version 4.18.3) (ETS 300 608 ed.6:1997)
- HRN ETS 300 608 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11 version 4.19.1) (ETS 300 608 ed.7:1998)
- HRN ETS 300 608 V8:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11 version 4.20.1) (ETS 300 608 ed.8:1998)
- HRN ETS 300 608 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Specification of the Subscriber Identity Module – Mobile Equipment (SIM - ME) interface (GSM 11.11 version 4.21.1) (ETS 300 608 ed.9:1999)
- HRN ETS 300 613 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Subscriber, Mobile Equipment (ME) and services data administration (GSM 12.02) (ETS 300 613 ed.1:1996)
- HRN ETS 300 614 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Security management (GSM 12.03) (ETS 300 614 ed.1:1996)
- HRN ETS 300 615 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Performance data measurements (GSM 12.04) (ETS 300 615 ed.1:1996)
- HRN ETS 300 616 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Event and call data (GSM 12.05) (ETS 300 616 ed.1:1996)
- HRN ETS 300 616 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Event and call data (GSM 12.05 version 4.3.1) (ETS 300 616 ed.2:1998)
- HRN ETS 300 617 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – GSM network configuration management (GSM 12.06) (ETS 300 617 ed.1:1996)
- HRN ETS 300 622 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) management information (GSM 12.20) (ETS 300 622 ed.1:1996)
- HRN ETS 300 623 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Network Management (NM) procedures and messages on the A-bis interface (GSM 12.21) (ETS 300 623 ed.1:1996)
- HRN ETS 300 624 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Interworking of GSM Network Management (NM) procedures and messages at the Base Station Controller (BSC) (GSM 12.22) (ETS 300 624 ed.1:1996)
- HRN ETS 300 625 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Unstructured Supplementary Service Data (USSD) – Stage 1 (GSM 02.90) (ETS 300 625 ed.1:1995)
- HRN ETS 300 625 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Unstructured Supplementary Service Data (USSD) – Stage 1 (GSM 02.90 version 4.1.1) (ETS 300 625 ed.2:1997)
- HRN ETS 300 626 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Application of the Base Station System Application Part (BSSAP) on the E-interface (GSM 09.08) (ETS 300 626 ed.1:1995)
- HRN ETS 300 627 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Subscriber and equipment trace (GSM 12.08) (ETS 300 627 ed.1:1997)
- HRN ETS 300 627 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Subscriber and equipment trace (GSM 12.08 version 4.5.1) (ETS 300 627 ed.2:1998)
- HRN ETS 300 628 V1:2012 en pr  
European digital cellular telecommunications system (Phase 2) – Alphabets and language-specific information (GSM 03.38) (ETS 300 628 ed.1:1994)
- HRN ETS 300 629 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Subscriber data management – Stage 2 (GSM 03.16) (ETS 300 629 ed.1:1996)
- HRN ETS 300 629 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Subscriber data management – Stage 2 (GSM 03.16) (ETS 300 629 ed.2:1996)
- HRN ETS 300 630 V1:2012 en pr  
Transmission and Multiplexing (TM) – Digital Radio Relay Systems (DRRS) – Low capacity point-to-point DRRS operating in the 1,4 GHz frequency band (ETS 300 630 ed.1:1997)
- HRN ETS 300 632 V1:2012 en pr  
Transmission and Multiplexing (TM) – Fixed radio link equipment for the transmission of analogue video signals operating in the frequency range 24,25 GHz to 29,50 GHz (ETS 300 632 ed.1:1997)
- HRN ETS 300 633 V1:2012 en pr  
Transmission and Multiplexing (TM) – Digital Radio Relay Systems (DRRS) – Low and medium capacity point-to-point DRRS operating in the frequency range 2,1 GHz to 2,6 GHz (ETS 300 633 ed.1:1997)
- HRN ETS 300 635 V1:2012 en pr  
Transmission and Multiplexing (TM) – Synchronous Digital Hierarchy (SDH) – Radio specific functional blocks for transmission of M x STM-N (ETS 300 635 ed.1:1996)
- HRN ETS 300 636 V1:2012 en pr  
Transmission and Multiplexing (TM) – Time Division Multiple Access (TDMA) point-to-multipoint digital radio systems in the frequency range 1 to 3 GHz (ETS 300 636 ed.1:1996)
- HRN ETS 300 638 V1:2012 en pr  
Transmission and Multiplexing (TM) – Digital Radio Relay Systems (DRRS) – Fixed point-to-point radio link equipment for the transmission of digital signals and analogue video signal operating in the frequency bands 10 GHz and 14 GHz with 20 MHz alternate channel spacing (ETS 300 638 ed.1:1996)



- HRN ETS 300 639 V1:2012 en pr  
Transmission and Multiplexing (TM) – Digital Radio Relay Systems (DRRS) – Sub-STM-1 DRRS operating in the 13 GHz, 15 GHz and 18 GHz frequency bands with about 28 MHz co-polar and 14 MHz cross-polar channel spacing (ETS 300 639 ed.1:1996)
- HRN ETS 300 640 V1:2012 en pr  
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- HRN ETS 300 650 V1:2012 en pr  
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- HRN ETS 300 657 V1:2012 en pr  
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- HRN ETS 300 658 V1:2012 en pr  
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- HRN ETS 300 670 V1:2012 en pr  
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- HRN ETS 300 678 V1:2012 en pr  
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- HRN ETS 300 687 V1:2012 en pr  
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- HRN ETS 300 688 V1:2012 en pr  
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- HRN ETS 300 689 V1:2012 en pr  
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- HRN ETS 300 690 V1:2012 en pr  
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- HRN ETS 300 693 V1:2012 en pr  
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- HRN ETS 300 723 V1:2012 en pr  
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- HRN ETS 300 723 V2:2012 en pr  
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- HRN ETS 300 726 V1:2012 en pr  
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- HRN ETS 300 728 V1:2012 en pr  
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- HRN ETS 300 729 V1:2012 en pr  
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- HRN ETS 300 730 V1:2012 en pr  
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- HRN ETS 300 580-3 V2:2012 en pr  
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- HRN ETS 300 580-4 V1:2012 en pr  
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- HRN ETS 300 580-5 V1:2012 en pr  
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- HRN ETS 300 580-6 V2:2012 en pr  
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- HRN ETS 300 580-6 V4:2012 en pr  
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- HRN ETS 300 581-1 V1:2012 en pr  
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- HRN ETS 300 581-2 V2:2012 en pr  
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- HRN ETS 300 581-3 V1:2012 en pr  
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- HRN ETS 300 581-4 V1:2012 en pr  
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- HRN ETS 300 581-5 V1:2012 en pr  
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- HRN ETS 300 581-6 V1:2012 en pr  
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- HRN ETS 300 581-7 V1:2012 en pr  
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- HRN ETS 300 581-7 V2:2012 en pr  
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- HRN ETS 300 581-8 V1:2012 en pr  
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- HRN ETS 300 581-8 V2:2012 en pr  
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- HRN ETS 300 607-1 V12:2012 en pr  
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- HRN ETS 300 607-1 V13:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (GSM 11.10-1 version 4.26.1) (ETS 300 607-1 ed.13:1999)
- HRN ETS 300 607-1 V14:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (GSM 11.10-1 version 4.27.1) (ETS 300 607-1 ed.14:2000)
- HRN ETS 300 607-1 V15:2012 en pr  
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- HRN ETS 300 607-1 V2:2012 en pr  
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- HRN ETS 300 607-1 V7:2012 en pr  
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- HRN ETS 300 607-1 V8:2012 en pr  
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- HRN ETS 300 607-3 V10:2012 en pr  
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- HRN ETS 300 607-3 V11:2012 en pr  
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- HRN ETS 300 607-3 V12:2012 en pr  
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- HRN ETS 300 607-3 V4:2012 en pr  
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- HRN ETS 300 607-3 V5:2012 en pr  
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- HRN ETS 300 607-3 V6:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 3: Layer 3 (L3) Abstract Test Suite (ATS) (GSM 11.10-3 version 4.20.1) (ETS 300 607-3 ed.6:1998)
- HRN ETS 300 607-3 V7:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 3: Layer 3 (L3) Abstract Test Suite (ATS) (GSM 11.10-3 version 4.21.1) (ETS 300 607-3 ed.7:1998)
- HRN ETS 300 607-3 V8:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 3: Layer 3 (L3) Abstract Test Suite (ATS) (GSM 11.10-3 version 4.22.1) (ETS 300 607-3 ed.8:1998)
- HRN ETS 300 607-3 V9:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Mobile Station (MS) conformance specification – Part 3: Layer 3 (L3) Abstract Test Suite (ATS) (GSM 11.10-3 version 4.23.1) (ETS 300 607-3 ed.9:1998)
- HRN ETS 300 609-2 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) equipment specification – Part 2: Signalling aspects (GSM 11.23) (ETS 300 609-2 ed.1:1997)
- HRN ETS 300 609-2 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) equipment specification – Part 2: Signalling aspects (GSM 11.23 version 4.7.1) (ETS 300 609-2 ed.2:1998)
- HRN ETS 300 609-2 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) equipment specification – Part 2: Signalling aspects (GSM 11.23 version 4.9.1) (ETS 300 609-2 ed.3:1998)
- HRN ETS 300 609-3 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) equipment specification – Part 3: Transcoder aspects (GSM 11.24 version 4.3.1) (ETS 300 609-3 ed.1:1999)
- HRN ETS 300 609-4 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Base Station System (BSS) equipment specification – Part 4: Repeaters (GSM 11.26) (ETS 300 609-4 ed.1:1997)
- HRN ETS 300 609-4 V2:2012 en pr  
Digital cellular telecommunications system (Phase 2 and Phase 2+) (GSM) – Base Station System (BSS) equipment specification – Part 4: Repeaters (GSM 11.26 version 5.0.2) (ETS 300 609-4 ed.2:1998)
- HRN ETS 300 609-4 V3:2012 en pr  
Digital cellular telecommunications system (Phase 2 and Phase 2+) (GSM) – Base Station System (BSS) equipment specification – Part 4: Repeaters (GSM 11.26 version 5.1.1) (ETS 300 609-4 ed.3:1998)
- HRN ETS 300 609-4 V4:2012 en pr  
Digital cellular telecommunications system (Phase 2 and Phase 2+) (GSM) – Base Station System (BSS) equipment specification – Part 4: Repeaters (GSM 11.26 version 5.2.1) (ETS 300 609-4 ed.4:1999)
- HRN ETS 300 612-1 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Network Management (NM) – Part 1: Objectives and structure of network management (GSM 12.00) (ETS 300 612-1 ed.1:1996)
- HRN ETS 300 612-2 V1:2012 en pr  
Digital cellular telecommunications system (Phase 2) (GSM) – Network Management (NM) – Part 2: Common aspects of GSM/DCS 1800 network management (GSM 12.01) (ETS 300 612-2 ed.1:1996)
- HRN ETS 300 646-1 V1:2012 en pr  
Integrated Services Digital Network (ISDN) – Signalling System No.7 – Digital cellular telecommunications system (Phase 2) – Application of ISDN User Part (ISUP) version 2 for the ISDN-Public Land Mobile Network (PLMN) signalling interface – Part 1: Protocol specification (GSM 09.12 version 4.1.1) (ETS 300 646-1 ed.1:1997)
- HRN ETS 300 646-2 V1:2012 en pr  
Integrated Services Digital Network (ISDN) – Signalling System No.7 – Digital cellular telecommunications system (Phase 2) – Application of ISDN User Part (ISUP) version 2 for the ISDN-Public Land Mobile Network (PLMN) signalling interface – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 646-2 ed.1:1998)
- HRN ETS 300 646-3 V1:2012 en pr  
Integrated Services Digital Network (ISDN) – Signalling System No.7 – Digital cellular telecommunications system (Phase 2) – Application of ISDN User Part (ISUP) version 2 for the ISDN-Public Land Mobile Network (PLMN) signalling interface – Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification (ETS 300 646-3 ed.1:1998)
- HRN ETS 300 646-4 V1:2012 en pr  
Integrated Services Digital Network (ISDN) – Signalling System No.7 – Digital cellular telecommunications system (Phase 2) – Application of ISDN User Part (ISUP) version 2 for the ISDN-Public Land Mobile Network (PLMN) signalling interface – Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification (ETS 300 646-4 ed.1:1998)
- HRN ETS 300 661-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Direct Dialling In (DDI) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 1 (1995), modified] (ETS 300 661-1 ed.1:1997)
- HRN ETS 300 661-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Direct Dialling In (DDI) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 661-2 ed.1:1997)

- HRN ETS 300 662-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Multiple Subscriber Number (MSN) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 2 (1995), modified] (ETS 300 662-1 ed.1:1996)
- HRN ETS 300 662-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Multiple Subscriber Number (MSN) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 662-2 ed.1:1996)
- HRN ETS 300 663-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Calling Line Identification Presentation (CLIP) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 3 (1995), modified] (ETS 300 663-1 ed.1:1996)
- HRN ETS 300 663-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Calling Line Identification Presentation (CLIP) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 663-2 ed.1:1996)
- HRN ETS 300 664-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Calling Line Identification Restriction (CLIR) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 4 (1995), modified] (ETS 300 664-1 ed.1:1996)
- HRN ETS 300 664-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Calling Line Identification Restriction (CLIR) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 664-2 ed.1:1996)
- HRN ETS 300 665-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Connected Line Identification Presentation (COLP) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 5 (1995), modified] (ETS 300 665-1 ed.1:1996)
- HRN ETS 300 665-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Connected Line Identification Presentation (COLP) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 665-2 ed.1:1996)
- HRN ETS 300 666-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Connected Line Identification Restriction (COLR) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), modified] (ETS 300 666-1 ed.1:1996)
- HRN ETS 300 666-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Connected Line Identification Restriction (COLR) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 666-2 ed.1:1996)
- HRN ETS 300 667-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Subaddressing (SUB) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 8 (1995), modified] (ETS 300 667-1 ed.1:1996)
- HRN ETS 300 667-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Subaddressing (SUB) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 667-2 ed.1:1996)
- HRN ETS 300 668-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – User-to-User Signalling (UUS) supplementary service – Part 1: Protocol specification [ITU-T Recommendation Q.2957, clause 1 (1995), modified] (ETS 300 668-1 ed.1:1996)
- HRN ETS 300 668-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – User-to-User Signalling (UUS) supplementary service – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 668-2 ed.1:1996)
- HRN ETS 300 669-1 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Supplementary service interactions – Part 1: Protocol specification (ETS 300 669-1 ed.1:1996)
- HRN ETS 300 669-2 V1:2012 en pr  
Broadband Integrated Services Digital Network (B-ISDN) – Digital Subscriber Signalling System No. two (DSS2) protocol – Supplementary service interactions – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (ETS 300 669-2 ed.1:1996)
- HRN ETS 300 702-1 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Global System for Mobile communications (GSM) – DECT/GSM Interworking Profile (IWP) – Part 1: Profile Test Specification (PTS) summary (ETS 300 702-1 ed.1:1996)
- HRN ETS 300 702-2 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Global System for Mobile communications (GSM) – DECT/GSM Interworking Profile (IWP) – Profile Test Specification (PTS) – Profile Specific Test Specification (PSTS) – Part 2: Portable radio Termination (PT) (ETS 300 702-2 ed.1:1997)
- HRN ETS 300 702-3 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Global System for Mobile communications (GSM) – DECT/GSM Interworking Profile (IWP) – Profile Test Specification (PTS) – Profile Specific Test Specification (PSTS) – Part 3: Fixed radio Termination (FT) (ETS 300 702-3 ed.1:1997)

- HRN ETS 300 704-1 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Global System for Mobile communications (GSM) – DECT/GSM Interworking Profile (IWP) – Profile Implementation Conformance Statement (ICS) – Part 1: Portable radio Termination (PT) (ETS 300 704-1 ed.1:1997)
- HRN ETS 300 704-2 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Global System for Mobile communications (GSM) – DECT/GSM Interworking Profile (IWP) – Profile Implementation Conformance Statement (ICS) – Part 2: Fixed radio Termination (FT) (ETS 300 704-2 ed.1:1997)
- HRN ETS 300 705-1 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Integrated Services Digital Network (ISDN) – DECT/ISDN interworking for end system configuration – Profile Implementation Conformance Statement (ICS) – Part 1: Portable radio Termination (PT) (ETS 300 705-1 ed.1:1997)
- HRN ETS 300 705-2 V1:2012 en pr  
Digital Enhanced Cordless Telecommunications (DECT) – Integrated Services Digital Network (ISDN) – DECT/ISDN interworking for end system configuration – Profile Implementation Conformance Statement (ICS) – Part 2: Fixed radio Termination (FT) (ETS 300 705-2 ed.1:1997)
- HRN ETS 300 719-2 V1:2012 en pr  
Radio Equipment and Systems (RES) – Private wide area paging service – Part 2: Functional characteristics and access protocol for private wide-area paging systems on shared channels (ETS 300 719-2 ed.1:1997)

### **HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

- HRN EN 957-6:2012 en pr  
Oprema za vježbanje – 6. dio: Pokretne trake za trčanje, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (EN 957-6:2010)  
Stationary training equipment – Part 6: Treadmills, additional specific safety requirements and test methods (EN 957-6:2010)
- HRN ISO 5355:2012 en pr  
Skijaške cipele (pancerice) za alpsko skijanje – Zahtjevi i metode ispitivanja (ISO 5355:2005+Cor 1:2007)  
Alpine ski-boots – Requirements and test methods (ISO 5355:2005+Cor 1:2007)
- HRN ISO 7331:2012 en pr  
Ski-poles for alpine skiing – Requirements and test methods (ISO 7331:2011)
- HRN ISO 8364:2012 en pr  
Skije za alpsko skijanje i vezovi – Površina za montažu veza – Zahtjevi i metode ispitivanja (ISO 8364:2007)  
Alpine skis and bindings – Binding mounting area – Requirements and test methods (ISO 8364:2007)
- HRN ISO 9462:2012 en pr  
Alpine ski-bindings – Requirements and test methods (ISO 9462:2006+Amd 1:2009)
- HRN ISO 9838:2012 en pr  
Skijaški vezovi za alpsko skijanje – Ispitni potplat za ispitivanje skijaških vezova (ISO 9838:2008)  
Alpine and touring ski-bindings – Test soles for ski-binding tests (ISO 9838:2008)
- HRN EN 13089:2012 en pr  
Mountaineering equipment – Ice-tools – Safety requirements and test methods (EN 13089:2011)

- HRN EN 13451-1:2012 en pr  
Swimming pool equipment – Part 1: General safety requirements and test methods (EN 13451-1:2011)
- HRN EN 13451-3:2012 en pr  
Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features (EN 13451-3:2011)
- HRN EN 15649-1:2012 en pr  
Floating leisure articles for use on and in the water – Part 1: Classification, materials, general requirements and test methods (EN 15649-1:2009+A1:2012)
- HRN EN 15649-2:2012 en pr  
Floating leisure articles for use on and in the water – Part 2: Consumer information (EN 15649-2:2009+A1:2012)
- HRN EN 15649-3:2012 en pr  
Floating leisure articles for use on and in the water – Part 3: Additional specific safety requirements and test methods for Class A devices (EN 15649-3:2009+A1:2012)
- HRN EN 15649-4:2012 en pr  
Floating leisure articles for use on and in the water – Part 4: Additional specific safety requirements and test methods for Class B devices (EN 15649-4:2010+A1:2012)

### **HZN/TU I2, Strojarstvo 2**

- HRN EN 474-4:2012 en pr  
Earth-moving machinery – Safety – Part 4: Requirements for backhoe loaders (EN 474-4:2006+A2:2012)
- HRN EN 474-5:2012 en pr  
Earth-moving machinery – Safety – Part 5: Requirements for hydraulic excavators (EN 474-5:2006+A2:2012)

### **HZN/TU N1, Nemetalni materijali 1**

- HRN EN ISO 12677:2012 en pr  
Chemical analysis of refractory products by X-ray fluorescence (XRF) – Fused cast-bead method (ISO 12677:2011; EN ISO 12677:2011)
- HRN EN ISO 14719:2012 en pr  
Chemical analysis of refractory material glass and glazes – Determination of Fe<sup>2+</sup> and Fe<sup>3+</sup> by the spectral photometric method with 1,10-phenanthroline (ISO 14719:2011; EN ISO 14719:2011)
- HRN EN 15150:2012 en pr  
Solid biofuels – Determination of particle density (EN 15150:2011)
- HRN EN 15590:2012 en pr  
Solid recovered fuels – Determination of the current rate of aerobic microbial activity using the real dynamic respiration index (EN 15590:2011)

### **HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**

- HRN EN ISO 7439:2012 en pr  
Copper-bearing contraceptive intrauterine devices – Requirements and tests (ISO 7439:2011; EN ISO 7439:2011)

### **HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1**

- HRN EN 3034:2011/Ispr.1:2012 en pr  
Aerospace series – Nuts, self-locking, hexagonal with captive washer – In heat resisting steel FE-PA92HT (A286), silver coated Classification: 1100 MPa/425 °C (EN 3034:2009/AC:2011)

HRN EN 3687:2011/Ispr.1:2012 en pr  
Aerospace series – Bolts, normal hexagon head, relieved shank, long thread, in heat resisting steel FE-PA2601 (A286), silver plated – Classification: 1100 MPa/650 °C (EN 3687:2010/AC:2011)

### HZN/TU V1, *Elektronika 1*

- HRN EN 50065-1:2012 en pr  
Signalizacija na niskonaponskim električnim instalacijama u frekvencijskom opsegu 3 kHz do 148,5 kHz – 1. dio: Opći zahtjevi, frekvencijski pojasi i elektromagnetske smetnje (EN 50065-1:2011)  
Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz – Part 1: General requirements, frequency bands and electromagnetic disturbances (EN 50065-1:2011)
- HRN EN 50377-14-1:2012 en pr  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 14-1: Cords with IEC 60793-2-50 singlemode category B1.1 and B1.3 fibre for category C (EN 50377-14-1:2011)
- HRN EN 50411-6-1:2012 en pr  
Fibre organisers and closures to be used in optical fibre communication systems – Product specifications – Part 6-1: Unprotected microduct for category S and A (EN 50411-6-1:2011)
- HRN EN 60749-15:2011/Ispr.1:2012 en pr  
Semiconductor devices – Mechanical and climatic test methods – Part 15: Resistance to soldering temperature for through-hole mounted devices (EN 60749-15:2010/AC:2011)
- HRN EN 61300-2-9:2011/Ispr.1:2012 en pr  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-9: Tests – Shock (EN 61300-2-9:2010/AC:2011)
- HRN EN 140401-804:2012 en pr  
Detail Specification: Fixed low power film high stability SMD resistors – Rectangular – Stability classes 0,1; 0,25 (EN 140401-804:2011+AC:2012)

### HZN/TU W1, *Energetska elektrotehnika 1*

- HRN EN 60252-1:2012 en pr  
AC motor capacitors – Part 1: General – Performance, testing and rating – Safety requirements – Guidance for installation and operation (IEC 60252-1:2010; EN 60252-1:2011)
- HRN EN 60252-2:2012 en pr  
AC motor capacitors – Part 2: Motor start capacitors (IEC 60252-2:2010; EN 60252-2:2011)
- HRN EN 60519-6:2012 en pr  
Safety in electroheat installations – Part 6: Specifications for safety in industrial microwave heating equipment (IEC 60519-6:2011; EN 60519-6:2011)
- HRN EN 60745-2-11:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-11: Posebni zahtjevi za pile s kretanjem amo-tamo (ubodne i sabljaste) (IEC 60745-2-11:2003, MOD+am1:2008; EN 60745-2-11:2010)  
Hand-held motor-operated electric tools – Safety – Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws) (IEC 60745-2-11:2003, MOD+am1:2008; EN 60745-2-11:2010)
- HRN EN 60745-2-1:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-1: Posebni zahtjevi za bušilice i udarne bušilice (IEC 60745-2-1:2003, MOD+am1:2008; EN 60745-2-1:2010)  
Hand-held motor-operated electric tools – Safety – Part 2-1: Particular requirements for drills and impact drills (IEC 60745-2-1:2003, MOD+am1:2008; EN 60745-2-1:2010)

- HRN EN 60745-2-12:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-12: Posebni zahtjevi vibratora za beton (IEC 60745-2-12:2003, MOD+am1:2008; EN 60745-2-12:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-12: Particular requirements for concrete vibrators (IEC 60745-2-12:2003, MOD+am1:2008; EN 60745-2-12:2009)
- HRN EN 60745-2-13:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-13: Posebni zahtjevi za lančane pile (IEC 60745-2-13:2006, MOD; EN 60745-2-13:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-13: Particular requirements for chain saws (IEC 60745-2-13:2006, MOD; EN 60745-2-13:2009)
- HRN EN 60745-2-14:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-14: Posebni zahtjevi za blanjalice (IEC 60745-2-14:2003, MOD+am1:2006, MOD; EN 60745-2-14:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-14: Particular requirements for planers (IEC 60745-2-14:2003, MOD+am1:2006, MOD; EN 60745-2-14:2009)
- HRN EN 60745-2-15:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-15: Posebni zahtjevi za kresalice (IEC 60745-2-15:2006, MOD; EN 60745-2-15:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-15: Particular requirements for hedge trimmers (IEC 60745-2-15:2006, MOD; EN 60745-2-15:2009)
- HRN EN 60745-2-18:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-18: Posebni zahtjevi za omotavalice (IEC 60745-2-18:2003, MOD+am1:2008; EN 60745-2-18:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-18: Particular requirements for strapping tools (IEC 60745-2-18:2003, MOD+am1:2008; EN 60745-2-18:2009)
- HRN EN 60745-2-19:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-19: Posebni zahtjevi za čeone glodalice (IEC 60745-2-19:2005, MOD; EN 60745-2-19:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-19: Particular requirements for jointers (IEC 60745-2-19:2005, MOD; EN 60745-2-19:2009)
- HRN EN 60745-2-20:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-20: Posebni zahtjevi za tračne pile (IEC 60745-2-20:2003, MOD+am1:2008; EN 60745-2-20:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-20: Particular requirements for band saws (IEC 60745-2-20:2003, MOD+am1:2008; EN 60745-2-20:2009)
- HRN EN 60745-2-21:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-21: Posebni zahtjevi za čistilice vodnih ispusta (IEC 60745-2-21:2002, MOD; EN 60745-2-21:2009)  
Hand-held motor-operated electric tools – Safety – Part 2-21: Particular requirements for drain cleaners (IEC 60745-2-21:2002, MOD; EN 60745-2-21:2009)
- HRN EN 60745-2-2:2012 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-2: Posebni zahtjevi za izvijače i udarne izvijače (IEC 60745-2-2:2003, MOD+am1:2008; EN 60745-2-2:2010)  
Hand-held motor-operated electric tools – Safety – Part 2-2: Particular requirements for screwdrivers and impact wrenches (IEC 60745-2-2:2003, MOD+am1:2008; EN 60745-2-2:2010)



HRN EN 60745-2-3:2012 en pr  
 Ručni elektromotorni alati – Sigurnost – Dio 2-3: Posebni zahtjevi za brusilice, laštilice i kolutne pjeskarilice (IEC 60745-2-3:2006, MOD+am1:2010, MOD+am1:2010/Corr.:2011; EN 60745-2-3:2011)  
 Hand-held motor-operated electric tools – Safety – Part 2-3: Particular requirements for grinders, polishers and disk-type sanders (IEC 60745-2-3:2006, MOD+am1:2010, MOD+am1:2010/Corr.:2011; EN 60745-2-3:2011)

HRN EN 60745-2-6:2012 en pr  
 Ručni elektromotorni alati – Sigurnost – Dio 2-6: Posebni zahtjevi za čekiče (IEC 60745-2-6:2003, MOD+am1:2006+am2:2008; EN 60745-2-6:2010)  
 Hand-held motor-operated electric tools – Safety – Part 2-6: Particular requirements for hammers (IEC 60745-2-6:2003, MOD+am1:2006+am2:2008; EN 60745-2-6:2010)

HRN EN 60745-2-8:2012 en pr  
 Ručni elektromotorni alati – Sigurnost – Dio 2-8: Posebni zahtjevi za škare i grickala (IEC 60745-2-8:2003, MOD+am1:2008; EN 60745-2-8:2009)  
 Hand-held motor-operated electric tools – Safety – Part 2-8: Particular requirements for shears and nibblers (IEC 60745-2-8:2003, MOD+am1:2008; EN 60745-2-8:2009)

HRN EN 60745-2-9:2012 en pr  
 Ručni elektromotorni alati – Sigurnost – Dio 2-9: Posebni zahtjevi za navojne nareznice (IEC 60745-2-9:2003, MOD+am1:2008; EN 60745-2-9:2009)  
 Hand-held motor-operated electric tools – Safety – Part 2-9: Particular requirements for tappers (IEC 60745-2-9:2003, MOD+am1:2008; EN 60745-2-9:2009)

HRN EN 61029-1:2012 en pr  
 Sigurnost prijevoznih elektromotornih alata – 1. dio: Opći zahtjevi (IEC 61029-1:1990, MOD; EN 61029-1:2009)  
 Safety of transportable motor-operated electric tools – Part 1: General requirements (IEC 61029-1:1990, MOD; EN 61029-1:2009)

HRN EN 61029-2-10:2012 en pr  
 Safety of transportable motor-operated electric tools – Part 2-10: Particular requirements for cutting-off grinders (IEC 61029-2-10:1998, MOD; EN 61029-2-10:2010)

HRN EN 61029-2-11:2012 en pr  
 Sigurnost prijevoznih elektromotornih alata – Dio 2-11: Posebni zahtjevi za složene stolne kutne pile (IEC 61029-2-11:2001, MOD; EN 61029-2-11:2009)  
 Safety of transportable motor-operated electric tools – Part 2-11: Particular requirements for combined mitre and bench saws (IEC 61029-2-11:2001, MOD; EN 61029-2-11:2009)

HRN EN 61029-2-1:2012 en pr  
 Sigurnost prijevoznih elektromotornih alata – Dio 2-1: Posebni zahtjevi za stolne kružne pile (IEC 61029-2-1:1993, MOD+am1:1999+am2:2001; EN 61029-2-1:2010)  
 Safety of transportable motor-operated electric tools – Part 2-1: Particular requirements for circular saw benches (IEC 61029-2-1:1993, MOD+am1:1999+am2:2001; EN 61029-2-1:2010)

HRN EN 61029-2-6:2012 en pr  
 Safety of transportable motor-operated electric tools – Part 2-6: Particular requirements for diamond drills with water supply (IEC 61029-2-6:1993, MOD; EN 61029-2-6:2010)

HRN EN 61029-2-8:2012 en pr  
 Sigurnost prijevoznih elektromotornih alata – Dio 2-8: Posebni zahtjevi za jednovretenaste okomite stolne glodalice (IEC 61029-2-8:1995, MOD+am1:1999+am2:2001; EN 61029-2-8:2010)  
 Safety of transportable motor-operated electric tools – Part 2-8: Particular requirements for single spindle vertical moulders (IEC 61029-2-8:1995, MOD+am1:1999+am2:2001; EN 61029-2-8:2010)

HRN EN 61029-2-9:2012 en pr  
 Sigurnost prijevoznih elektromotornih alata – Dio 2-9: Posebni zahtjevi za kutne pile (IEC 61029-2-9:1995, MOD; EN 61029-2-9:2009)  
 Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws (IEC 61029-2-9:1995, MOD; EN 61029-2-9:2009)

HRN EN 61558-2-12:2012 en pr  
 Safety of transformers, reactors, power supply units and combinations thereof – Part 2-12: Particular requirements and tests for constant voltage transformers and power supply units for constant voltage (IEC 61558-2-12:2011; EN 61558-2-12:2011)

HRN EN 61558-2-20:2012 en pr  
 Safety of transformers, reactors, power supply units and combinations thereof – Part 2-20: Particular requirements and tests for small reactors (IEC 61558-2-20:2010; EN 61558-2-20:2011)

HRN EN 61558-2-9:2012 en pr  
 Safety of transformers, reactors, power supply units and combinations thereof – Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps (IEC 61558-2-9:2010; EN 61558-2-9:2011)

## 1.2 Nacrta hrvatskih norma

Temeljem Zakona o normizaciji (Narodne novine 163/03) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o nacrtima hrvatskih norma (oznaka nHRN). Pisane primjedbe na nacrt hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrta hrvatske norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo). Nacrti su hrvatskih norma zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

### HZN/TO 503, *Metalni materijali*

nHRN EN 10080 hr pp  
 Čelik za armiranje betona – Zavarljivi čelik za armiranje – Općenito (EN 10080:2005)  
 Steel for the reinforcement of concrete – Weldable reinforcing steel – General (EN 10080:2005)

### HZN/TO E500, *Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama*

nHRN EN 55014-1 hr pp  
 Elektromagnetska kompatibilnost – Zahtjevi za kućanske aparate, električne alate i slične uređaje – 1. dio: Emisija (CISPR 14-1:2005+am1:2008; EN 55014-1:2006+A1:2009)  
 Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2005+am1:2008; EN 55014-1:2006+A1:2009)

### 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 163/03) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.

Pisane primjedbe na prijedloge za prihvaćanje norma dostavljaju se Hrvatskome zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

#### HZN/TO 5, *Metalne cijevi i priključci*

prEN 1591-4 en  
Flanges and their joints – Design rules for gasketed circular flange connections – Part 4: Qualification of personnel competency in the assembly of bolted joints fitted to equipment subject to the Pressure Equipment Directive

#### HZN/TO 6, *Papir, karton i pulpe*

prEN ISO 12625-11 en  
Tissue paper and tissue products – Part 11: Determination of wet ball burst strength (ISO/DIS 12625-11:2011)  
Tanki upijajući papir i proizvodi od tankoga upijajućeg papira – 11. dio: Određivanje otpornosti na prskanje mokre kugle (ISO/DIS 12625-11:2011)

#### HZN/TO 21, *Protupožarna i vatrogasna oprema*

EN 54-1:2011 en  
Fire detection and fire alarm systems – Part 1: Introduction  
Sustavi za otkrivanje i dojavu požara – 1. dio: Uvod

prEN 54-14 en  
Fire detection and fire alarm systems – Part 14: Guidelines for planning, design, installation, commissioning, use and maintenance

FprEN 671-1 en  
Fixed firefighting systems – Hose systems – Part 1: Hose reels with semi-rigid hose  
Stabilni protupožarni sustavi – Hidrantski sustavi – 1. dio: Hidrantska cijevna vitla s polučvrstim cijevima

FprEN 671-2 en  
Fixed firefighting systems – Hose systems – Part 2: Hose systems with lay-flat hose  
Stabilni protupožarni sustavi – Hidrantski sustavi – 2. dio: Hidrantski sustavi s plosnatim cijevima

EN 1846-1:2011 en  
Firefighting and rescue service vehicles – Part 1: Nomenclature and designation  
Vatrogasna i spasilačka vozila – 1. dio: Nomenklatura i označavanje

prEN 16327 en  
Fire-fighting – Positive pressure foam proportioning systems (PPFPS) and compressed air foam systems (CAFS)

#### HZN/TO 25, *Ljevarstvo*

FprEN 1562 en  
Founding – Malleable cast irons  
Ljevarstvo – Temper lijevovi

#### HZN/TO 28, *Naftni proizvodi i maziva*

EN 589:2008/FprA1 en  
Automotive fuels – LPG – Requirements and test methods  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja

prEN 590 rev en  
Automotive fuels – Diesel – Requirements and test methods  
Goriva za motorna vozila – Dizelsko gorivo – Zahtjevi i metode ispitivanja

prEN 16329 en  
Diesel and domestic heating fuels – Determination of cold filter plugging point – Linear cooling bath method

#### HZN/TO 34/PO 4, *Poljoprivredni i prehrambeni proizvodi; Žito i proizvodi od žita*

prEN ISO 5526 en  
Cereals, pulses and other food grains – Nomenclature (ISO/DIS 5526:2011)  
Žitarice, mahunarke i drugo prehrambeno zrnje – Nomenklatura (ISO/DIS 5526:2011)

EN 15587:2008/prA1 en  
Cereals and cereal products – Determination of Besatz in wheat (*Triticum aestivum* L.), durum wheat (*Triticum durum* Desf.), rye (*Secale cereale* L.) and feed barley (*Hordeum vulgare* L.)  
Žitarice i proizvodi od žitarica – Određivanje količine stranih tvari u krušnoj pšenici (*Triticum aestivum* L.), tvrdoj pšenici (*T. durum* Desf.), raži (*Secale cereale* L.) i stočnom ječmu (*Hordeum vulgare* L.)

#### HZN/TO 44, *Zavarivanje i srodni postupci*

FprEN ISO 12153 en  
Welding consumables – Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of nickel and nickel alloys – Classification (ISO 12153:2011)  
Dodatni i potrošni materijali za zavarivanje – Elektrode od žice punjene praškom za elektrolučno zavarivanje nikla i legura nikla, sa i bez zaštite plinom – Razredba (ISO 12153:2011)

EN ISO 15614-1:2004/FprA2 en  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2004/FDAM 2:2011)  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 1. dio: Elektrolučno i plinsko zavarivanje čelika te elektrolučno zavarivanje nikla i legura nikla (ISO 15614-1:2004/FDAM 2:2011)

FprEN ISO 18275 en  
Welding consumables – Covered electrodes for manual metal arc welding of high-strength steels – Classification (ISO 18275:2011)  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje (REL) čelika visoke čvrstoće – Razredba (ISO 18275:2011)

EN ISO 25239-1:2011 en  
Friction stir welding – Aluminium – Part 1: Vocabulary (ISO 25239-1:2011)  
Zavarivanje trenjem uz miješanje – Aluminij – 1. dio: Terminološki rječnik (ISO 25239-1:2011)

EN ISO 25239-2:2011 en  
Friction stir welding – Aluminium – Part 2: Design of weld joints (ISO 25239-2:2011)  
Zavarivanje trenjem uz miješanje – Aluminij – 2. dio: Oblikovanje zavarenih spojeva (ISO 25239-2:2011)

EN ISO 25239-3:2011 en  
Friction stir welding – Aluminium – Part 3: Qualification of welding operators (ISO 25239-3:2011)  
Zavarivanje trenjem uz miješanje – Aluminij – 3. dio: Osposobljenost rukovatelja zavarivanja (ISO 25239-3:2011)

- EN ISO 25239-4:2011 en  
Friction stir welding — Aluminium — Part 4: Specification and qualification of welding procedures (ISO 25239-4:2011)  
Zavarivanje trenjem uz miješanje — Aluminij — 4. dio: Specifikacija i osposobljenost za zavarivačke postupke (ISO 25239-4:2011)
- EN ISO 25239-5:2011 en  
Friction stir welding — Aluminium — Part 5: Quality and inspection requirements (ISO 25239-5:2011)  
Zavarivanje trenjem uz miješanje — Aluminij — 5. dio: Zahtjevi za kvalitetu i nadzor (ISO 25239-5:2011)

### **HZN/TO 71, Beton**

- prEN 480-15 en  
Admixtures for concrete, mortar and grout — Test methods — Part 15: Reference concrete and method for testing viscosity modifying admixtures

### **HZN/TO 92, Zaštita od požara**

- prEN 1364-1 rev en  
Fire resistance tests for non-loadbearing elements — Part 1: Walls  
Ispitivanja otpornosti na požar nenosivih elemenata — 1. dio: Zidovi
- FprEN 13381-6 en  
Test methods for determining the contribution to the fire resistance of structural members — Part 6: Applied protection to concrete filled hollow steel columns  
Ispitne metode za određivanje doprinosa otpornosti na požar konstrukcijskih elemenata — 6. dio: Zaštita primjenjena na šupljim čeličnim stupovima ispunjenim betonom
- FprEN 15882-4 en  
Extended application of results from fire resistance tests for service installations — Part 4: Linear joint seals

### **HZN/TO 120, Koža i obuća**

- EN ISO 14088:2012 en  
Leather — Chemical tests — Quantitative analysis of tanning agents by filter method (ISO 14088:2012)  
Koža — Kemijska ispitivanja — Kvantitativna analiza sredstava za štavljenje metodom filtracije (ISO 14088:2012)

### **HZN/TO 121, Anestetička i respiracijska oprema**

- EN ISO 7396-1:2007/prA3 en  
Medical gas pipeline systems — Part 1: Pipeline systems for compressed medical gases and vacuum — Amendment 3 (ISO 7396-1:2007/DAM 3:2011)  
Cjevovodni sustavi za medicinske plinove — 1. dio: Cjevovodni sustavi za komprimirane medicinske plinove i vakuum — Amandman 3 (ISO 7396-1:2007/DAM 3:2011)

### **HZN/TO 134, Gnojiva i poboljšivači tla**

- prEN 12579 rev en  
Soil improvers and growing media — Sampling  
Poboljšivači tla i supstrati — Uzorkovanje
- prEN 12580 rev en  
Soil improvers and growing media — Determination of a quantity  
Poboljšivači tla i supstrati — Određivanje količine
- EN 13037:2011 en  
Soil improvers and growing media — Determination of pH  
Poboljšivači tla i supstrati — Određivanje pH
- EN 13038:2011 en  
Soil improvers and growing media — Determination of electrical conductivity  
Poboljšivači tla i supstrati — Određivanje električne vodljivosti

- EN 13039:2011 en  
Soil improvers and growing media — Determination of organic matter content and ash  
Poboljšivači tla i supstrati — Određivanje sadržaja organske tvari i pepela
- EN 15950:2010 en  
Fertilizers — Determination of N-(1,2-dicarboxyethyl)-D,L-aspartic acid (Iminodisuccinic acid, IDHA) using high-performance liquid chromatography (HPLC)  
Gnojiva — Određivanje N-(1,2-dicarboxyethyl)-D, L-aspartic kiseline (Iminodisuccinic kiselina, IDHA) upotrebom tekućinske kromatografije visokog učinka (HPLC)
- prEN 16328 en  
Fertilizers — Determination of 3,4-dimethyl-1H-pyrazole phosphate (DMPP) — Method using high-performance liquid chromatography (HPLC)

### **HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

- FprCEN/TS 1329-2 en  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 2: Guidance for the assessment of conformity  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija — Neomekšani poli(vinil-klorid) (PVC-U) — 2. dio: Upute za ocjenu sukladnosti
- FprCEN/TS 1452-7 en  
Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 7: Guidance for the assessment of conformity  
Plastični tlačni cijevni sustavi za opskrbu vodom te za podzemnu i nadzemnu odvodnju i kanalizaciju — Neomekšani poli(vinil-klorid) (PVC-U) — 7. dio: Upute za ocjenu sukladnosti
- FprCEN/TS 1455-2 en  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Acrylonitrile-butadiene-styrene (ABS) — Part 2: Guidance for the assessment of conformity  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija — Akrlonitril/butadien/stiren (ABS) — 2. dio: Upute za ocjenu sukladnosti
- FprCEN/TS 1565-2 en  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Styrene-copolymer blends (SAN+PVC) — Part 2: Guidance for the assessment of conformity  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija — Mješavine kopolimera stirena (SAN+PVC) — 2. dio: Upute za ocjenu sukladnosti
- FprCEN/TS 1566-2 en  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Chlorinated poly(vinyl chloride) (PVC-C) — Part 2: Guidance for assessment of conformity  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija — Klorirani poli(vinil-klorid) (PVC-C) — 2. dio: Upute za ocjenu sukladnosti
- FprCEN/TS 13598-3 en  
Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride)(PVC-U), polypropylene (PP) and polyethylene (PE) — Part 3: Guidance for assessment of conformity  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju — Neomekšani poli(vinil-klorid) (PVC-U), polipropilen (PP) i polietilen (PE) — 3. dio: Upute za ocjenu sukladnosti

## HZN/TO 146, *Kvaliteta zraka*

prEN ISO 16911-1 en  
Stationary source emissions – Determination of velocity and volume flow rate in ducts – Part 1: Manual reference method (ISO/DIS 16911-1:2011)

prEN ISO 16911-2 en  
Stationary source emissions – Determination of velocity and volume flow rate in ducts – Part 2: Automated measuring systems (ISO/DIS 16911-2:2011)

## HZN/TO 159, *Ergonomija*

prEN ISO 11064-4 en  
Ergonomic design of control centres – Part 4: Layout and dimensions of workstations (ISO/DIS 11064-4:2011)  
Ergonomski dizajn nadzorno-upravljačkih centara – 4. dio: Izgled i dimenzije mjesta rada (ISO/DIS 11064-4:2011)

## HZN/TO 172, *Optika i optički instrumenti*

prEN ISO 8980-3 en  
Ophthalmic optics – Uncut finished spectacle lenses – Part 3: Transmittance specifications and test methods (ISO/DIS 8980-3:2011)  
Oftalmološka optika – Neoblikovane gotove naočalne leće – 3. dio: Specifikacije transmitancije i metode ispitivanja (ISO/DIS 8980-3:2011)

prEN ISO 9394 rev en  
Ophthalmic optics – Contact lenses and contact lens care products – Determination of biocompatibility by ocular study with rabbit eyes (ISO/DIS 9394:2011)  
Oftalmološka optika – Kontaktne leće i proizvodi za njegu kontaktnih leća – Utvrđivanje biološke podnošljivosti za oči proučavanjem na zečjim očima (ISO/DIS 9394:2011)

prEN ISO 14889 en  
Ophthalmic optics – Spectacle lenses – Fundamental requirements for uncut finished lenses (ISO/DIS 14889:2011)  
Oftalmološka optika – Naočalne leće – Osnovni zahtjevi za neoblikovane gotove leće (ISO/DIS 14889:2011)

prEN ISO 22665 en  
Ophthalmic optics and instruments – Instruments to measure axial distances in the eye (ISO/DIS 22665:2011)

## HZN/TO 176, *Upravljanje kvalitetom i osiguravanje kvalitete*

prEN 1325 en  
Value Management – Vocabulary  
Upravljanje vrijednostima – Terminološki rječnik

## HZN/TO 190, *Kvaliteta tla*

prEN ISO 17380 en  
Soil quality – Determination of total cyanide and easily liberatable cyanide – Continuous-flow analysis method (ISO/DIS 17380:2011)

## HZN/TO 196, *Prirodni kamen*

FprEN 1467 en  
Natural stone – Rough blocks – Requirements

FprEN 1468 en  
Natural stone – Rough slabs – Requirements  
Prirodni kamen – Sirove ploče – Zahtjevi

FprEN 14617-4 en  
Agglomerated stone – Test methods – Part 4: Determination of the abrasion resistance  
Kameni aglomerat – Ispitne metode – 4. dio: Određivanje otpornosti na abraziju

FprEN 14617-5 en  
Agglomerated stone – Test methods – Part 5: Determination of freeze and thaw resistance  
Kameni aglomerat – Ispitne metode – 5. dio: Određivanje otpornosti na zamrzavanje i odmrzavanje

FprEN 14617-6 en  
Agglomerated stone – Test methods – Part 6: Determination of thermal shock resistance  
Kameni aglomerat – Ispitne metode – 6. dio: Određivanje otpornosti na toplinski šok

FprEN 14617-10 en  
Agglomerated stone – Test methods – Part 10: Determination of chemical resistance  
Kameni aglomerat – Ispitne metode – 10. dio: Određivanje otpornosti na kemikalije

FprEN 14617-12 en  
Agglomerated stone – Test methods – Part 12: Determination of dimensional stability  
Kameni aglomerat – Ispitne metode – 12. dio: Određivanje postojanosti dimenzija

## HZN/TO 211, *Geoinformacije/Geomatika*

FprEN ISO 19111-2 en  
Geographic information – Spatial referencing by coordinates – Part 2: Extension for parametric values (ISO 19111-2:2009)

FprEN ISO 19143 en  
Geographic information – Filter encoding (ISO 19143:2010)

FprEN ISO 19144-1 en  
Geographic information – Classification systems – Part 1: Classification system structure (ISO 19144-1:2009)

## HZN/TO 218, *Drvo*

prEN 1910 rev en  
Wood flooring and wood panelling and cladding – Determination of dimensional stability

FprCEN/TS 15912 en  
Durability of reaction to fire performance – Classes of fire-retardant treated wood-based product in interior and exterior end use applications  
Postojanost u požaru – Razredi usporivačima gorenja obrađenoga drva i proizvoda na osnovi drva za unutarnju i vanjsku uporabu

## HZN/TO 221, *Geosintetici*

EN ISO 10769:2011 en  
Clay geosynthetic barriers – Determination of water absorption of bentonite (ISO 10769:2011)  
Glineno-geosintetičke barijere – Određivanje vodoupojnosti za bentonit (ISO 10769:2011)

EN ISO 10773:2011 en  
Clay geosynthetic barriers – Determination of permeability to gases (ISO 10773:2011)  
Glineno-geosintetičke barijere – Određivanje plinopropusnosti (ISO 10773:2011)

## HZN/TO 502, *Plinski uređaji*

EN 30-1-1:2008+A2:2010+AC:2011 en  
Domestic cooking appliances burning gas – Part 1-1: Safety – General  
Kućanski plinski uređaji za kuhanje – Dio 1-1: Sigurnost – Općenito

FprEN 30-1-4 en  
Domestic cooking appliances burning gas – Safety – Part 1-4: Appliances having one or more burners with an automatic burner control system  
Kućanski plinski uređaji za kuhanje – Sigurnost – Dio 1-4: Aparati s jednim ili više plamenika s automatskim nadzorom

- EN 88-1:2011 en  
Pressure regulators and associated safety devices for gas appliances – Part 1: Pressure regulators for inlet pressures up to and including 50 kPa
- prEN 89 en  
Gas-fired storage water heaters for the production of domestic hot water  
Plinske akumulacijske grijalice vode za sanitarnu upotrebu
- EN 161:2011/FprA2 en  
Automatic shut-off valves for gas burners and gas appliances
- prEN 203-2-7 rev en  
Gas heated catering equipment – Part 2-7: Specific requirements – Salamanders and rotisseries
- EN 498:2012 en  
Specification for dedicated liquefied petroleum gas appliances – Barbecues for outdoor use contact grills included  
Odredbe za uređaje na ukapljeni naftni plin – Roštilji za primjenu na otvorenom
- EN 624:2011 en  
Specification for dedicated LPG appliances – Room sealed LPG space heating equipment for installation in vehicles and boats  
Odredbe za uređaje na ukapljeni naftni plin – Uređaji (oprema) za grijanje na ukapljeni naftni plin za primjenu u vozilima i čamcima
- prEN 676 rev en  
Forced draught burners for gaseous fuels  
Plinski plamenici s ventilatorima
- EN 1949:2011 en  
Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and accommodation purposes in other vehicles  
Odredbe za instalacije u sustavima pogona na ukapljeni naftni plin za namjenu stanovanja u vozilima za odmor (kamp vozila) i drugim vozilima
- EN 13203-3:2010 en  
Solar supported gas-fired domestic appliances producing hot water – Appliances not exceeding 70 kW heat input and 500 litres water storage capacity – Part 3: Assessment of energy consumption
- prEN 16340 en  
Combustion product sensing devices for gas burners and gas burning appliances

### **HZN/TO 503, Metalni materijali**

- EN ISO 376:2011 en  
Metallic materials – Calibration of force-proving instruments used for the verification of uniaxial testing machines (ISO 376:2011)  
Metalni materijali – Umjeravanje instrumenata za mjerenje sile koji se upotrebljavaju za provjeravanje ispitnih uređaja s jednoosnim opterećivanjem (ISO 376:2011)
- prEN 1977 rev en  
Copper and copper alloys – Copper drawing stock (wire rod)
- EN 10245-1:2011 en  
Steel wire and wire products – Organic coatings on steel wire – Part 1: General rules  
Čelična žica i žičani proizvodi – Organske prevlake na čeličnoj žici – 1. dio: Opća pravila
- EN 10245-2:2011 en  
Steel wire and wire products – Organic coatings on steel wire – Part 2: PVC finished wire  
Čelična žica i žičani proizvodi – Organske prevlake na čeličnoj žici – 2. dio: PVC završna prevlaka na žici
- EN 10245-3:2011 en  
Steel wire and wire products – Organic coatings on steel wire – Part 3: PE coated wire  
Čelična žica i žičani proizvodi – Organske prevlake na čeličnoj žici – 3. dio: Žica prevučena poliestrom (PE)
- EN 10245-4:2011 en  
Steel wire and wire products – Organic coatings on steel wire – Part 4: Polyester coated wire  
Čelična žica i žičani proizvodi – Organske prevlake na čeličnoj žici – 4. dio: Žica prevučena poliestrom (PE)
- EN 10257-1:2011 en  
Zinc or zinc alloy coated non-alloy steel wire for armouring either power cables or telecommunication cables – Part 1: Land cables  
Nelegirana čelična žica prevučena cinkom ili cinkovom legurom za ojačavanje strujnih ili telekomunikacijskih kabela – 1. dio: Podzemni kabeli
- EN 10257-2:2011 en  
Zinc or zinc alloy coated non-alloy steel wire for armouring either power cables or telecommunication cables – Part 2: Submarine cables  
Nelegirana čelična žica prevučena cinkom ili cinkovom legurom za ojačavanje strujnih ili telekomunikacijskih kabela – 2. dio: Podmorski kabeli
- EN 10268:2006/prA1 en  
Cold rolled steel flat products with higher yield strength for cold forming – Technical delivery conditions  
Hladno valjani čelični plosnati proizvodi s visokom granicom razvlačenja za hladno oblikovanje – Tehnički uvjeti isporuke
- EN 10270-1:2011 en  
Steel wire for mechanical springs – Part 1: Patented cold drawn unalloyed spring steel wire  
Čelična žica za opruge – 1. dio: Patentirana hladno vučena žica od nelegiranog čelika za opruge
- EN 10270-2:2011 en  
Steel wire for mechanical springs – Part 2: Oil hardened and tempered spring steel wire  
Čelična žica za opruge – 2. dio: U ulju završno poboljšana čelična žica za opruge
- EN 10270-3:2011 en  
Steel wire for mechanical springs – Part 3: Stainless spring steel wire  
Čelična žica za opruge – 3. dio: Nehrđajuća čelična žica za opruge
- EN ISO 16120-1:2011 en  
Non-alloy steel wire rod for conversion to wire – Part 1: General requirements (ISO 16120-1:2011)  
Valjana žica od nelegiranog čelika za vučenje u žicu – 1. dio: Opći zahtjevi (ISO 16120-1:2011)
- EN ISO 16120-2:2011 en  
Non-alloy steel wire rod for conversion to wire – Part 2: Specific requirements for general-purpose wire rod (ISO 16120-2:2011)  
Valjana žica od nelegiranog čelika za vučenje u žicu – 2. dio: Posebni zahtjevi za valjanu žicu za opću namjenu (ISO 16120-2:2011)
- EN ISO 16120-3:2011 en  
Non-alloy steel wire rod for conversion to wire – Part 3: Specific requirements for rimmed and rimmed substitute, low-carbon steel wire rod (ISO 16120-3:2011)  
Valjana žica od nelegiranog čelika za vučenje u žicu – 3. dio: Posebni zahtjevi za valjanu žicu od neumirenog i neumirenom čeliku zamjenskog niskougličnog čelika (ISO 16120-3:2011)
- EN ISO 16120-4:2011 en  
Non-alloy steel wire rod for conversion to wire – Part 4: Specific requirements for wire rod for special applications (ISO 16120-4:2011)  
Valjana žica od nelegiranog čelika za vučenje u žicu – 4. dio: Posebni zahtjevi za valjanu žicu za posebnu primjenu (ISO 16120-4:2011)

EN ISO 26203-2:2011 en  
Metallic materials – Tensile testing at high strain rates – Part 2: Servo-hydraulic and other test systems (ISO 26203-2:2011)  
Metalni materijali – Metoda statičkog vlačnog ispitivanja pri velikim brzinama istezanja – 2. dio: Servo-hidraulički i drugi ispitni sustavi (ISO 26203-2:2011)

### **HZN/TO 504, Korozija i zaštita metala i legura**

prEN ISO 7539-1 en  
Corrosion of metals and alloys – Stress corrosion testing – Part 1: General guidance on testing procedures (ISO/DIS 7539-1:2011)  
Korozija metala i legura – Ispitivanje korozije uz naprezanje – 1. dio: Opće smjernice pri postupcima ispitivanja (ISO/DIS 7539-1:2011)

EN ISO 8565:2011 en  
Metals and alloys – Atmospheric corrosion testing – General requirements (ISO 8565:2011)  
Metali i legure – Atmosferska korozijska ispitivanja – Opći zahtjevi (ISO 8565:2011)

prEN ISO 16701 en  
Corrosion of metals and alloys – Corrosion in artificial atmosphere – Accelerated corrosion test involving exposure under controlled conditions of humidity cycling and intermittent spraying of a salt solution (ISO/DIS 16701:2011)  
Korozija metala i legura – Korozija u umjetnoj atmosferi – Ubrzana korozijska ispitivanja koja uključuju izlaganje pod kontroliranim uvjetima ciklički promjenjive vlažnosti i povremeno prskanje slanom otopinom (ISO/DIS 16701:2011)

### **HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu**

EN ISO 6145-11:2008 en  
Gas analysis – Preparation of calibration gas mixtures using dynamic volumetric methods – Part 11: Electrochemical generation (ISO 6145-11:2005)  
Analiza plina – Priprava plinskih smjesa za umjeravanje primjenom dinamičkih volumetrijskih metoda – 11. dio: Elektrokemijska generacija (ISO 6145-11:2005)

prEN ISO 10437 en  
Petroleum, petrochemical and natural gas industries – Steam turbines – Special-purpose applications (ISO/DIS 10437:2009)

EN ISO 11960:2011 en  
Petroleum and natural gas industries – Steel pipes for use as casing or tubing for wells (ISO 11960:2011)  
Industrija nafte i prirodnog plina – Čelične cijevi, koje se upotrebljavaju kao kesing ili tubing za bušotine (ISO 11960:2011)

prEN ISO 12736 en  
Petroleum and natural gas industries – Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO/DIS 12736:2011)

EN ISO 13500:2008/A1:2010 en  
Petroleum and natural gas industries – Drilling fluid materials – Specifications and tests – Amendment 1: Barite 4,1 (ISO 13500:2008/Amd 1:2010)  
Industrija nafte i prirodnog plina – Materijali za isplahivanje pri bušenju – Specifikacije i ispitivanja (ISO 13500:2008/Amd 1:2010)

prEN ISO 13535 en  
Petroleum and natural gas industries – Drilling and production equipment – Hoisting equipment (ISO/DIS 13535:2008)  
Industrija nafte i prirodnog plina – Bušača i proizvodna oprema – Oprema za podizanje (ISO/DIS 13535:2008)

EN ISO 13628-4:2010+AC:2011 en  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 4: Subsea wellhead and tree equipment (ISO 13628-4:2010+Cor 1:2011)  
Industrija nafte i prirodnog plina – Izvedba i rad podmorskih proizvodnih sustava – 4. dio: Podmorska bušotinska glava i erupcijski uređaji (ISO 13628-4:2010+Cor 1:2011)

prEN ISO 13628-6 en  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 6: Subsea production control systems (ISO/DIS 13628-6:2012)  
Industrija nafte i prirodnog plina – Izvedba i rad podmorskih proizvodnih sustava – 6. dio: Sustavi upravljanja podmorskom proizvodnom opremom (ISO/DIS 13628-6:2012)

prEN ISO 13628-14 en  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 14: Subsea high integrity pressure protection systems (HIPPS) (ISO/DIS 13628-14:2011)

EN ISO 13628-15:2011 en  
Petroleum and natural gas industries – Design and operation of subsea production systems – Part 15: Subsea structures and manifolds (ISO 13628-15:2011)

EN ISO 19901-3:2010 en  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 3: Topsides structure (ISO 19901-3:2010)

FprEN ISO 19905-1 en  
Petroleum and natural gas industries – Site-specific assessment of mobile offshore units – Part 1: Jack-ups (ISO/FDIS 19905-1:2011)

EN ISO 19906:2010 en  
Petroleum and natural gas industries – Arctic offshore structures (ISO 19906:2010)

prEN ISO 28300 en  
Petroleum, petrochemical and natural gas industries – Venting of atmospheric and low-pressure storage tanks (ISO/DIS 28300:2011)

### **HZN/TO 513, Mjerne jedinice i mjerila**

prEN 13757-4 rev en  
Communication systems for meters and remote reading of meters – Part 4: Wireless meter readout (Radio meter reading for operation in SRD bands)  
Sustavi komunikacije kod mjerila i daljinsko očitavanje mjerila – 4. dio: Bežično očitavanje mjerila (Očitavanje mjerila radiovezom u SRD pojasu)

EN 14154-1:2005+A2:2011 en  
Water meters – Part 1: General requirements  
Vodomjeri – 1. dio: Opći zahtjevi

### **HZN/TO 517, Posebne vrste konstrukcija**

FprEN 1337-1 en  
Structural bearings – Part 1: General

prEN 13374 rev en  
Temporary edge protection systems – Product specification – Test methods  
Privremene ograde – Specifikacija proizvoda – Ispitne metode

FprEN 16031 en  
Adjustable telescopic aluminium props – Product specifications, design and assessment by calculation and tests

## **HZN/TO 518, Podovi, stropovi i zidne obloge**

- prEN 13950 rev en  
Gypsum board thermal/acoustic insulation composite panels – Definitions, requirements and test methods
- prEN 13963 rev en  
Jointing materials for gypsum boards – Definitions, requirements and test methods
- prEN 14190 rev en  
Gypsum plasterboard products from processing – Definitions, requirements and test methods  
Dodatno obrađene gipsane ploče – Definicije, zahtjevi i ispitne metode
- prEN 14195 rev en  
Metal framing components for gypsum board systems – Definitions, requirements and test methods

## **HZN/TO 521, Usluge održavanja**

- EN 15221-3:2011 en  
Facility Management – Part 3: Guidance on quality in Facility Management
- EN 15221-4:2011 en  
Facility Management – Part 4: Taxonomy, Classification and Structures in Facility Management
- EN 15221-5:2011 en  
Facility Management – Part 5: Guidance on Facility Management processes
- EN 15221-6:2011 en  
Facility Management – Part 6: Area and Space Measurement in Facility Management
- EN 15331:2011 en  
Criteria for design, management and control of maintenance services for buildings

## **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

- FprEN 12326-1 en  
Slate and stone for discontinuous roofing and external cladding – Part 1: Specifications for slate and carbonate slate
- FprEN 13583 en  
Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of hail resistance  
Saviljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na tuču
- FprEN 13967 en  
Flexible sheets for waterproofing – Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet – Definitions and characteristics  
Saviljive hidroizolacijske trake – Plastične i elastomerne trake za zaštitu od vlage i vode iz tla – Definicije i značajke
- FprEN 14909 en  
Flexible sheets for waterproofing – Plastic and rubber damp proof courses – Definitions and characteristics  
Saviljive hidroizolacijske trake – Plastične i elastomerne trake za sprečavanje kapilarnog podizanja vode – Definicije i značajke

## **HZN/TO 526, Bitumenska veziva**

- FprEN 58 en  
Bitumen and bituminous binders – Sampling bituminous binders  
Bitumen i bitumenska veziva – Uzorkovanje bitumenskih veziva
- FprEN 1425 en  
Bitumen and bituminous binders – Characterization of perceptible properties  
Bitumen i bitumenska veziva – Karakterizacija vidljivih svojstava

- prEN 1429 rev en  
Bitumen and bituminous binders – Determination of residue on sieving of bituminous emulsions, and determination of storage stability by sieving  
Bitumen i bitumenska veziva – Određivanje ostatka na situ i određivanje stabilnosti pri skladištenju bitumenskih emulzija sijanjem

- FprEN 13075-1 en  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method  
Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 1. dio: Određivanje vrijednosti raspada kationskih bitumenskih emulzija, metoda s mineralnim punilom

- prEN 13808 rev en  
Bitumen and bituminous binders – Framework for specifying cationic bituminous emulsions  
Bitumen i bitumenska veziva – Okvir za specificiranje kationskih bitumenskih emulzija

- prEN 13924-2 en  
Bitumen and bituminous binders – Specification framework for special bitumen – Part 2: Multigrade bituminous binders  
Bitumen i bitumenska veziva – Okvirna specifikacija za specijalni bitumen – 2. dio: Višegradacijska bitumenska veziva

- FprEN 14769 en  
Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV)  
Bitumen i bitumenska veziva – Postupak oponašanja ubrzanoga dugotrajnoga starenja uporabom tlačne komore (PAV)

- FprEN 14770 en  
Bitumen and bituminous binders – Determination of complex shear modulus and phase angle using a Dynamic Shear Rheometer (DSR)

- FprEN 14771 en  
Bitumen and bituminous binders – Determination of the flexural creep stiffness – Bending Beam Rheometer (BBR)  
Bitumen i bitumenska veziva – Određivanje krutosti puzanja pri savijanju – Reometar za ispitivanje uzorka savijanjem (BBR)

- prEN 15322 rev en  
Bitumen and bituminous binders – Framework for specifying cut-back and fluxed bituminous binders  
Bitumen i bitumenska veziva – Okvir za specificiranje razrijeđenih i omekšanih bitumenskih veziva

- FprCEN/TS 16346 en  
Bituminous binders – Determination of breaking behaviour and immediate adhesivity of cationic bituminous emulsions with 2/4 mm aggregate  
Bitumenska veziva – Određivanje stupnja stabilnosti i neposrednog prijanjanja kationskih bitumenskih emulzija na frakciju agregata 2/4 mm

## **HZN/TO 528, Oprema za željeznice**

- prEN 16334 en  
Railway applications – Passenger Alarm System – System requirements

## **HZN/TO 531, Plastika i guma**

- EN ISO 179-2:1999/FprA1 en  
Plastics – Determination of Charpy impact properties – Part 2: Instrumented impact test – Amendment 1: Precision data (ISO 179-2:1997/Amd 1:2011)  
Plastika – Određivanje svojstava žilavosti po Charpyju – 2. dio: Dijagramska metoda – Amandman 1: Preciznost podataka (ISO 179-2:1997/Amd 1:2011)

- prEN 853 rev en  
Rubber hoses and hose assemblies – Wire braid reinforced hydraulic type – Specification  
Gumena crijeva i crijevni uređaji – Žicom ojačan hidraulični tip – Specifikacija
- prEN 854 rev en  
Rubber hoses and hose assemblies – Textile reinforced hydraulic type – Specification  
Gumena crijeva i crijevni uređaji – Hidraulični tip ojačan tekstilom – Specifikacija
- prEN 855 rev en  
Plastics hoses and hose assemblies – Thermoplastics textile reinforced hydraulic type – Specification  
Plastična crijeva i crijevni uređaji – Plastomerni tekstilom ojačan hidraulični tip – Specifikacija
- prEN 856 rev en  
Rubber hoses and hose assemblies – Rubber-covered spiral wire reinforced hydraulic type – Specification  
Gumena crijeva i crijevni uređaji – Gumeni hidraulični tip obložen i ojačan spiralnom žicom – Specifikacija
- prEN 857 rev en  
Rubber hoses and hose assemblies – Wire braid reinforced compact type for hydraulic applications – Specification  
Gumena crijeva i crijevni uređaji – Kompaktni tip ojačan žičanom mrežom za hidrauličnu primjenu – Specifikacija
- prEN 1360 rev en  
Rubber and plastic hoses and hose assemblies for measured fuel dispensing systems – Specification  
Gumena i plastična crijeva i crijevni uređaji za mjerenje količine goriva – Specifikacija
- prEN 13483 rev en  
Rubber and plastic hoses and hose assemblies with internal vapour recovery for measured fuel dispensing systems – Specification  
Gumena i plastična crijeva i crijevni uređaji s unutrašnjom regeneracijom pare za sustave razdiobe mjerenoga goriva – Specifikacija

### **HZN/TO 532, Dimnjaci**

- prEN 14241-1 en  
Chimneys – Elastomeric seals and elastomeric sealants – Material requirements and test methods – Part 1: Seals in flue liners  
Dimnjaci – Brtve i brtvila od elastomera – Zahtjevi za materijal i ispitne metode – 1. dio: Brtve u dimovodnim cijevima
- prEN 14471 en  
Chimneys – System chimneys with plastic flue liners – Requirements and test methods  
Dimnjaci – Sustavi dimnjaka s plastičnim dimovodnim cijevima – Zahtjevi i ispitne metode

### **HZN/TO 533, Kolničke konstrukcije**

- FprEN 12697-1 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 1: Soluble binder content  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 1. dio: Topivi udio veziva
- FprEN 12697-6 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 6: Determination of bulk density of bituminous specimens  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 6. dio: Određivanje gustoće asfaltnih uzoraka
- FprEN 12697-11 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 11: Determination of the affinity between aggregate and bitumen

Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 11. dio: Određivanje prionljivosti bitumena i agregata

- FprEN 12697-24 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 24: Resistance to fatigue  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 24. dio: Otpornost na zamor
- FprEN 12697-34 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 34: Marshall test  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 34. dio: Marshallovo ispitivanje
- FprEN 12697-39 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 39: Binder content by ignition  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 39. dio: Određivanje udjela veziva spaljivanjem
- FprEN 12697-45 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 45: Saturation Ageing Tensile Stiffness (SATS) conditioning test
- FprEN 12697-46 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 46: Low temperature cracking and properties by uniaxial tension tests
- prEN 12697-49 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 49: Determination of friction after polishing
- EN 13036-4:2011 en  
Road and airfield surface characteristics – Test methods – Part 4: Method for measurement of slip/skid resistance of a surface: The pendulum test  
Površinska svojstva cesta i aerodromskih operativnih površina – Metode ispitivanja – 4. dio: Metoda mjerenja otpornosti površine na klizanje – Ispitivanje klatnom
- FprEN 13286-47 en  
Unbound and hydraulically bound mixtures – Part 47: Test method for the determination of California bearing ratio, immediate bearing index and linear swelling  
Nevezane i hidrauličnim vezivom vezane mješavine – 47. dio: Ispitna metoda za određivanje kalifornijskog indeksa nosivosti, neposrednog indeksa nosivosti i linearnog bubrenja
- FprEN 13863-4 en  
Concrete pavements – Part 4: Test methods for the determination of wear resistance of concrete pavements to studded tyres  
Betonski kolnici – 4. dio: Ispitna metoda za određivanje otpornosti betonskog kolnika na gume s čavlima
- prEN 16333 en  
Slurry surfacing – Specification for airfields
- HZN/TO 534, Spremnici za teret**
- EN 13922:2011 en  
Tanks for transport of dangerous goods – Service equipment for tanks – Overfill prevention systems for liquid fuels  
Spremnici za prijevoz opasnih tvari – Pomoćna oprema za spremnike – Sustavi za sprečavanje prepunjenosti za tekuća goriva
- prEN 14125 rev en  
Thermoplastic and flexible metal pipework for underground installation at petrol filling stations  
Termoplastični i savitljivi metalni cjevovod za podzemnu ugradnju na benzinskim stanicama za punjenje



- EN 15969-1:2011 en  
Tanks for transport of dangerous goods – Digital interface for the data transfer between tank vehicle and with stationary facilities – Part 1: Protocol specification – Control, measurement and event data  
Spremnici za prijevoz opasnih tvari – Digitalno sučelje za prijenos podataka između vozila cisterne i nepomičnih uređaja – 1. dio: Specifikacija protokola – Upravljanje, mjerenje i podaci o događajima
- EN 15969-2:2011 en  
Tanks for transport of dangerous goods – Digital interface for the data transfer between tank vehicle and with stationary facilities – Part 2: Commercial and logistic data  
Spremnici za prijevoz opasnih tvari – Digitalno sučelje za prijenos podataka između vozila cisterne i nepomičnih uređaja – 2. dio: Komercijalni i logistički podaci
- prEN 16321-1 en  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 1: Test methods for the type approval efficiency assessment of petrol vapour recovery systems
- prEN 16321-2 en  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 2: Test methods for verification of vapour recovery systems at service stations

### **HZN/TO 536, Vrata, prozori i staklo u graditeljstvu**

- EN 1627:2011 en  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification  
Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na provalu – Zahtjevi i razredba
- EN 1628:2011 en  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading  
Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod statičkim opterećenjem
- EN 1629:2011 en  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading  
Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod dinamičkim opterećenjem
- EN 1630:2011 en  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts  
Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti na provalu priručnim alatom
- FprEN 1906 en  
Building hardware – Lever handles and knob furniture – Requirements and test methods  
Građevni okovi – Prihvatnici i kvake – Zahtjevi i metode ispitivanja
- EN 13126-5:2011 en  
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 5: Devices that restrict the opening of windows and door height windows  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 5. dio: Naprave za ograničavanje otvaranja prozora i prozorskih vrata
- FprEN 13126-13 en  
Building hardware – Hardware for windows and balcony doors – Part 13: Requirements and test methods – Sash balances  
Građevni okovi – Okovi za prozore i balkonska vrata – 13. dio: Zahtjevi i metode ispitivanja – Ravnotežni utezi krila
- FprEN 13126-14 en  
Building hardware – Hardware for windows and balcony doors – Requirements and test methods – Part 14: Sash fasteners  
Građevni okovi – Okovi za prozore i balkonska vrata – Zahtjevi i metode ispitivanja – 14. dio: Okretni zatvarači krila
- EN 13126-19:2011 en  
Building hardware – Requirements and test methods for windows and door height windows – Part 19: Sliding Closing Devices  
Građevni okovi – Zahtjevi i metode ispitivanja za prozore i prozorska vrata – 19. dio: Uređaji za zatvaranje kliznih vrata
- EN 13420:2011 en  
Windows – Behaviour between different climates – Test method  
Prozori – Ponašanje u različitim klimatskim uvjetima – Metoda ispitivanja

### **HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija**

- EN ISO 10360-7:2011 en  
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – Part 7: CMMs equipped with imaging probing systems (ISO 10360-7:2011)  
Geometrijske specifikacije proizvoda (GSP) – Testovi za prihvatljivost i naknadnu provjeru trokoordinatnih mjernih uređaja (TMU) – 7. dio: TMU-ovi opremljeni sustavom za sondiranje slika (ISO 10360-7:2011)
- EN ISO 12180-1:2011 en  
Geometrical product specifications (GPS) – Cylindricity – Part 1: Vocabulary and parameters of cylindrical form (ISO 12180-1:2011)  
Geometrijske specifikacije proizvoda (GSP) – Cilindričnost – 1. dio: Terminološki rječnik i parametri cilindričnog oblika (ISO 12180-1:2011)
- EN ISO 12180-2:2011 en  
Geometrical product specifications (GPS) – Cylindricity – Part 2: Specification operators (ISO 12180-2:2011)  
Geometrijske specifikacije proizvoda (GSP) – Cilindričnost – 2. dio: Specifikacijski operatori (ISO 12180-2:2011)
- EN ISO 12181-1:2011 en  
Geometrical product specifications (GPS) – Roundness – Part 1: Vocabulary and parameters of roundness (ISO 12181-1:2011)  
Geometrijske specifikacije proizvoda (GSP) – Kružnost – 1. dio: Terminološki rječnik i parametri kružnosti (ISO 12181-1:2011)
- EN ISO 12181-2:2011 en  
Geometrical product specifications (GPS) – Roundness – Part 2: Specification operators (ISO 12181-2:2011)  
Geometrijske specifikacije proizvoda (GSP) – Kružnost – 2. dio: Operatori specifikacija (ISO 12181-2:2011)
- EN ISO 12780-1:2011 en  
Geometrical product specifications (GPS) – Straightness – Part 1: Vocabulary and parameters of straightness (ISO 12780-1:2011)  
Geometrijske specifikacije proizvoda (GSP) – Pravocrtost – 1. dio: Terminološki rječnik i parametri pravocrtosti (ISO 12780-1:2011)

- EN ISO 12780-2:2011 en  
Geometrical product specifications (GPS) – Straightness – Part 2: Specification operators (ISO 12780-2:2011)  
Geometrijske specifikacije proizvoda (GSP) – Pravocrtnost – 2. dio: Specifikacijski operatori (ISO 12780-2:2011)
- EN ISO 12781-1:2011 en  
Geometrical product specifications (GPS) – Flatness – Part 1: Vocabulary and parameters of flatness (ISO 12781-1:2011)  
Geometrijske specifikacije proizvoda (GSP) – Ravnost – 1. dio: Terminološki rječnik i parametri ravnosti (ISO 12781-1:2011)
- EN ISO 12781-2:2011 en  
Geometrical product specifications (GPS) – Flatness – Part 2: Specification operators (ISO 12781-2:2011)  
Geometrijske specifikacije proizvoda (GSP) – Ravnost – 2. dio: Specifikacijski operatori (ISO 12781-2:2011)
- EN ISO 14253-2:2011 en  
Geometrical product specifications (GPS) – Inspection by measurement of workpieces and measuring equipment – Part 2: Guidance for the estimation of uncertainty in GPS measurement, in calibration of measuring equipment and in product verification (ISO 14253-2:2011)  
Geometrijske specifikacije proizvoda (GSP) – Ispitivanje mjerenjem izradaka i mjerne opreme – 2. dio: Smjernice za procjenu nesigurnosti pri mjerenju GSP-a, pri umjeravanju mjerne opreme i potvrđivanju proizvoda (ISO 14253-2:2011)
- EN ISO 14253-3:2011 en  
Geometrical product specifications (GPS) – Inspection by measurement of workpieces and measuring equipment – Part 3: Guidelines for achieving agreements on measurement uncertainty statements (ISO 14253-3:2011)  
Geometrijske specifikacije proizvoda (GSP) – Ispitivanje mjerenjem izradaka i mjerne opreme – 3. dio: Smjernice za postizanje suglasnosti u izražavanju mjernih nesigurnosti (ISO 14253-3:2011)
- prEN ISO 25178-605 en  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 605: Nominal characteristics of non-contact (point autofocus probe) instruments (ISO/DIS 25178-605:2011)  
Geometrijske specifikacije proizvoda (GSP) – Tekstura površine: Areal – 605. dio: Nazivne karakteristike nekontaktnih instrumenta (točkasta autofokusna sonda) (ISO/DIS 25178-605:2011)

### **HZN/TO 546, Očuvanje kulturne baštine**

- EN 15946:2011 en  
Conservation of cultural property – Packing principles for transport

### **HZN/TO 549, Svjetlo i rasvjeta**

- EN 12464-1:2011 en  
Light and lighting – Lighting of work places – Part 1: Indoor work places  
Svjetlo i rasvjeta – Rasvjeta radnih mjesta – 1. dio: Unutrašnji radni prostori
- EN 12665:2011 en  
Light and lighting – Basic terms and criteria for specifying lighting requirements  
Svjetlo i rasvjeta – Osnovni nazivi i kriteriji za specificiranje zahtjeva rasvjete

### **HZN/TO 550, Opskrba vodom**

- EN 15664-1:2008/prA1 en  
Influence of metallic materials on water intended for human consumption – Dynamic rig test for assessment of metal release – Part 1: Design and operation

Utjecaj metalnih materijala na vodu namjenjenu ljudskoj uporabi – Mjerne linije za dinamičko ispitivanje procjene otpuštanja materijala – 1. dio: Oblikovanje i postupak

- prEN 15975-2 en  
Security of drinking water supply – Guidelines for risk and crisis management – Part 2: Risk management

### **HZN/TO 553, Predgotovljeni proizvodi**

- EN 31:2011 en  
Wash basins – Connecting dimensions  
Umivaonici – Priključne dimenzije
- EN 33:2011 en  
WC pans and WC suites – Connecting dimensions  
WC školjke i WC garniture – Priključne dimenzije
- FprEN 14891 en  
Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, evaluation of conformity, classification and designation  
Vodonepropusni proizvodi u tekućem obliku za primjenu ispod keramičkih pločica povezanih ljepilom – Zahtjevi, ispitne metode, vrednovanje sukladnosti, razredba i označavanje
- EN 14992:2007/FprA1 en  
Precast concrete products – Wall elements  
Predgotovljeni betonski proizvodi – Elementi za zidove

### **HZN/TO 554, Obrada otpadnih voda**

- prEN 16323 en  
Glossary of wastewater engineering terms

### **HZN/TO 555, Medicinski proizvodi**

- prEN ISO 11135 en  
Sterilization of health-care products – Ethylene oxide – Requirements for the development, validation and routine control of a sterilization process for medical devices (ISO/DIS 11135:2011)  
Sterilizacija medicinskih proizvoda – Etilen oksid – Zahtjevi za provedbu, vrednovanje i rutinsku kontrolu sterilizacije medicinskih proizvoda (ISO/DIS 11135:2011)
- EN ISO 13408-1:2011/prA1 en  
Aseptic processing of health care products – Part 1: General requirements (ISO 13408-1:2011/DAM 1:2011)  
Aseptički postupci za proizvode zdravstvene zaštite – 1. dio: Opći zahtjevi (ISO 13408-1:2011/DAM 1:2011)
- prEN ISO 14644-8 en  
Cleanrooms and associated controlled environments – Part 8: Classification of air cleanliness by chemical concentration (ISO/DIS 14644-8:2011)  
Čisti prostori i odgovarajući kontrolirani okoliš – 8. dio: Razredba čistoće zraka prema kemijskoj koncentraciji (ISO/DIS 14644-8:2011)
- prEN ISO 16256 en  
Clinical laboratory testing and in vitro diagnostic test systems – Reference method for testing the in vitro activity of antimicrobial agents against yeast of fungi involved in infectious diseases (ISO/DIS 16256:2011)  
Klinička laboratorijska ispitivanja i in vitro dijagnostički ispitni sustavi – Referentna metoda za ispitivanje in vitro djelovanja antimikrobnih agensa protiv kvasaca iz gljivica koji uzrokuju infektivne bolesti (ISO/DIS 16256:2011)

## **HZN/TO 559, Zaporni, regulacijski i sigurnosni uređaji**

- prEN 12516-1 rev en  
Industrial valves – Shell design strength – Part 1: Tabulation method for steel valve shells  
Industrijski zaporni uređaji – Projektna čvrstoća kućišta – 1. dio: Tablična metoda čeličnih kućišta ventila
- prEN 12516-2 rev en  
Industrial valves – Shell design strength – Part 2: Calculation method for steel valve shells  
Industrijski zaporni uređaji – Projektna čvrstoća kućišta – 2. dio: Metoda proračuna čeličnih kućišta ventila
- prEN 12516-4 rev en  
Industrial valves – Shell design strength – Part 4: Calculation method for valve shells manufactured in metallic materials other than steel  
Industrijski zaporni uređaji – Projektiranje čvrstoće školjke – 4. dio: Metoda proračuna školjki zapornih uređaja izrađenih od metalnih materijala osim čelika

## **HZN/TO 560, Tekstilni proizvodi**

- prEN ISO 1833-26 en  
Textiles – Quantitative chemical analysis – Part 26: Mixtures of melamine and cotton or aramide fibres (method using hot formic acid) (ISO/DIS 1833-26:2011)  
Tekstil – Kvantitativna kemijska analiza – 26. dio: Mješavine melamina i pamuka ili aramidnih vlakana (metoda koja uključuje uporabu vruće mravlje kiseline) (ISO/DIS 1833-26:2011)
- prEN ISO 13015 en  
Woven fabrics – Distortion – Determination of skew and bow (ISO/DIS 13015:2011)
- prEN 16315 en  
Textiles – Silk woven fabrics for women's wears, foulards and scarves, ties – Requirements and test methods  
Tekstil – Svilene tkanine za žensku odjeću, marame i šalove te kravate – Zahtjevi i metode ispitivanja

## **HZN/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce**

- FprEN ISO 10961 en  
Gas cylinders – Cylinder bundles – Design, manufacture, testing and inspection (ISO 10961:2010)  
Plinske boce – Baterije boca – Projektiranje, izrada, ispitivanje i pregled (ISO 10961:2010)

## **HZN/TO 563, Sigurnost strojeva**

- prEN 15432-2 en  
Winter and road service area maintenance equipment – Mechanical interface on vehicles for front-mounted equipment – Part 2: Interchangeability on lifting systems
- prEN 16330 en  
Winter and road service area equipment – Power system and related controls – Power hydraulic system and electric interfaces

## **HZN/TO 567, Meso, proizvodi ribarstva i akvakultura**

- ISO 12875:2011 en  
Traceability of finfish products – Specification on the information to be recorded in captured finfish distribution chains  
Sljedivost proizvoda od riba koštunjača – Specifikacija o podacima koje treba zapisati u distribucijskome lancu izlovljenih riba koštunjača

ISO 12877:2011 en

Traceability of finfish products – Specification on the information to be recorded in farmed finfish distribution chains  
Sljedivost proizvoda od riba koštunjača – Specifikacija o podacima koje treba zapisati u distribucijskome lancu uzgojenih riba koštunjača

## **HZN/TO 568, Analize hrane – Horizontalne metode**

- EN ISO 7218:2007/prA1 en  
Microbiology of food and animal feeding stuffs – General requirements and guidance for microbiological examinations – Amendment 1 (ISO 7218:2007/DAM 1:2011)  
Mikrobiologija hrane i hrane za životinje – Opći zahtjevi i upute za mikrobiološka ispitivanja – Amandman 1 (ISO 7218:2007/DAM 1:2011)
- prEN 13804 en  
Foodstuffs – Determination of elements and their chemical species – General considerations and specific requirements
- EN ISO 16140:2003/A1:2011 en  
Microbiology of food and animal feeding stuffs – Protocol for the validation of alternative methods – Amendment 1 (ISO 16140:2003/Amd 1:2011)  
Mikrobiologija hrane i stočne hrane – Protokol za validaciju alternativnih metoda – Amandman 1 (ISO 16140:2003/Amd 1:2011)
- EN ISO 22118:2011 en  
Microbiology of food and animal feeding stuffs – Polymerase chain reaction (PCR) for the detection and quantification of food-borne pathogens – Performance characteristics (ISO 22118:2011)  
Mikrobiologija hrane i stočne hrane – Lančana reakcija polimerazom (PCR) za detekciju i određivanje broja patogena koji potječu iz hrane – Karakteristike izvođenja (ISO 22118:2011)
- EN ISO 22119:2011 en  
Microbiology of food and animal feeding stuffs – Real-time polymerase chain reaction (PCR) for the detection of food-borne pathogens – General requirements and definitions (ISO 22119:2011)  
Mikrobiologija hrane i stočne hrane – Lančana reakcija polimerazom u stvarnom vremenu (RT-PCR) za dokazivanje patogena koji potječu iz hrane – Opći zahtjevi i definicije (ISO 22119:2011)
- EN ISO 24276:2006/prA1 en  
Foodstuffs – Methods of analysis for the detection of genetically modified organisms and derived products – General requirements and definitions (ISO 24276:2006/DAM 1:2011)  
Hrana – Analitičke metode za otkrivanje genetički modificiranih organizama i proizvoda dobivenih od njih – Opći zahtjevi i definicije (ISO 24276:2006/DAM 1:2011)

## **HZN/TO 569, Hrana za životinje**

- prEN ISO 17180 en  
Animal feeding stuffs – Determination of lysine, methionine and threonine in commercial amino acid products and premixtures (ISO/DIS 17180:2011)

## **HZN/TO 570, Sustavi upravljanja energijom**

- EN 15900:2010 en  
Energy efficiency services – Definitions and requirements  
Usluge energetske učinkovitosti – Definicije i zahtjevi
- prEN 16325 en  
Guarantees of Origin related to energy – Guarantees of Origin for Electricity  
Jamstva o izvoru energije – Jamstva o izvoru električne energije

## HZN/TO E2, *Rotacijski strojevi*

FprEN 60034-28:2011 en

Rotating electrical machines – Part 28: Test methods for determining quantities of equivalent circuit diagrams for three-phase low-voltage cage induction motors (IEC 60034-28:201X)

## HZN/TO E9, *Električna oprema za željeznicu*

CLC/FprTR 50501-2:2011 en

Railway applications – Rolling stock – Intercommunication between vehicles and train/wayside – Part 2: Technical contents of standardization work in the field of intercommunication

## HZN/TO E15, *Čvrsti elektrotehnički izolacijski materijali*

EN 60626-3:2008/FprA1:2011 en

Combined flexible materials for electrical insulation – Part 3: Specifications for individual materials (IEC 60626-3:2008/am1:201X)

FprEN 61212-3-2:2011 en

Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Round laminated moulded tubes (IEC 61212-3-2:201X)

## HZN/TO E17, *Sklopni i upravljački uređaji*

EN 60947-1:2007/A1:2011 en

Low-voltage switchgear and controlgear – Part 1: General rules (IEC 60947-1:2007/am1:2010)  
Niskonaponska sklopna aparatura – 1. dio: Opća pravila (IEC 60947-1:2007/am1:2010)

EN 60947-4-2:201X en

Low-voltage switchgear and controlgear – Part 4-2: Contactors and motor-starters – AC semiconductor motor controllers and starters (IEC 60947-4-2:2011)  
Niskonaponska sklopna aparatura – Dio 4-2: Sklopnici i motorski pokretači – Poluvodički motorski kontroleri i pokretači za izmjeničnu struju (IEC 60947-4-2:2011)

EN 60947-4-3:2000/A2:2011 en

Low-voltage switchgear and controlgear – Part 4-3: Contactors and motor-starters – AC semiconductor controllers and contactors for non-motor loads (IEC 60947-4-3:1999/am2:2011)  
Niskonaponska sklopna aparatura – Dio 4-3: Sklopnici i motorski pokretači – Poluvodički kontroleri i sklopnici za nemotorske terete za izmjeničnu struju (IEC 60947-4-3:1999/am2:2011)

EN 60947-8:2003/A2:201X en

Low-voltage switchgear and controlgear – Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines (IEC 60947-8:2003/am2:2011)  
Niskonaponska sklopna aparatura – 8. dio: Upravljačke jedinice za ugrađenu toplinsku zaštitu u električne rotacijske strojeve (IEC 60947-8:2003/am2:2011)

EN 61439-1:2011 en

Low-voltage switchgear and controlgear assemblies – Part 1: General rules (IEC 61439-1:2011)  
Niskonaponski sklopni blokovi – 1. dio: Opća pravila (IEC 61439-1:2011)

EN 61439-2:2011 en

Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies (IEC 61439-2:2011)  
Niskonaponski sklopni blokovi – 2. dio: Blokovi za distribuciju (PSC) (IEC 61439-2:2011)

EN 61439-5:2011 en

Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks (IEC 61439-5:2010)

Niskonaponski sklopni blokovi – 5. dio: Blokovi za distribuciju u javnim mrežama (IEC 61439-5:2010)

EN 62208:2011 en

Empty enclosures for low-voltage switchgear and controlgear assemblies – General requirements (IEC 62208:2011)

Prazna kućišta za niskonaponske sklopne blokove – Opći zahtjevi (IEC 62208:2011)

EN 62271-1:2008/A1:2011 en

High-voltage switchgear and controlgear – Part 1: Common specifications (IEC 62271-1:2007/am1:2011)  
Visokonaponska sklopna aparatura – 1. dio: Zajedničke odredbe (IEC 62271-1:2007/am1:2011)

EN 62271-101:2006/A1:2010 en

High-voltage switchgear and controlgear – Part 101: Synthetic testing (IEC 62271-101:2006/am1:2010)  
Visokonaponska sklopna aparatura – 101. dio: Sintetska ispitivanja (IEC 62271-101:2006/am1:2010)

EN 62271-102:2002/A1:2011 en

High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches (IEC 62271-102:2001/am1:2011)  
Visokonaponska sklopna aparatura – 102. dio: Visokonaponski rastavljači i zemljospojnici izmjenične struje (IEC 62271-102:2001/am1:2011)

EN 62271-103:2011 en

High-voltage switchgear and controlgear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV (IEC 62271-103:2011)  
Visokonaponska sklopna aparatura – 103. dio: Sklopke za nazivne napone iznad 1 kV do uključujući 52 kV (IEC 62271-103:2011)

EN 62271-106:2011 en

High-voltage switchgear and controlgear – Part 106: Alternating current contactors, contactor-based controllers and motor-starters (IEC 62271-106:2011)  
Visokonaponska sklopna aparatura – 106. dio: Visokonaponski sklopnici izmjenične struje i motorski pokretači zasnovani na sklopnicima (IEC 62271-106:2011)

EN 62271-200:2012 en

High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV (IEC 62271-200:2011)  
Visokonaponska sklopna aparatura – 200. dio: Sklopna aparatura izmjenične struje s metalnim plaštem za nazivne napone iznad 1kV do uključujući 52 kV (IEC 62271-200:2011)

EN 62271-203:201X en

High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV (IEC 62271-203:2011)  
Visokonaponska sklopna aparatura – 203. dio: Plinom izolirana metalom oklopljena razvodna aparatura za nazivne napone iznad 52 kV (IEC 62271-203:2011)

EN 62271-204:2011 en

High-voltage switchgear and controlgear – Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV (IEC 62271-204:2011)  
Visokonaponska sklopna aparatura – 204. dio: Visokonaponski plinom izolirani prijenosni vodovi za napone iznad 52 kV (IEC 62271-204:2011)

EN 62271-206:2011 en

High-voltage switchgear and controlgear – Part 206: Voltage presence indicating systems for rated voltages above 1 kV and up to and including 52 kV (IEC 62271-206:2011)  
Visokonaponska sklopna aparatura – 206. dio: Visokonaponski tvornički dogotovljeni sklopni blokovi – Sustavi za indicaciju prisustva napona iznad 1kV do uključujući 52 kV (IEC 62271-206:2011)

FprEN 62683:2011 en  
Low-voltage switchgear and controlgear — Product data and properties for information exchange (IEC 62683:201X)

### **HZN/TO E23, Električni instalacijski pribor**

EN 50085-1:2005/prAA:2011 en  
Cable trunking systems and cable ducting systems for electrical installations — Part 1: General requirements

### **HZN/TO E31, Eksplozivne atmosfere**

EN 1127-1:2011 en  
Explosive atmospheres — Explosion prevention and protection — Part 1: Basic concepts and methodology  
Eksplozivne atmosfere — Sprječavanje i zaštita od eksplozije — 1. dio: Osnovna načela i metodologija

EN 13463-5:2011 en  
Non-electrical equipment intended for use in potentially explosive atmospheres — Part 5: Protection by constructional safety 'c'  
Neelektrična oprema za eksplozivne atmosfere — 5. dio: Zaštita konstrukcijskom sigurnošću "c"

EN 15967:2011 en  
Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours  
Određivanje najvećeg tlaka i najvećeg porasta tlaka eksplozije plinova i para

EN 16009:2011 en  
Flameless explosion venting devices  
Naprave za rasterećenje eksplozije bez prijenosa plamena

EN 16020:2011 en  
Explosion diverters  
Odvodnici eksplozije

EN 50348:2010 en  
Stationary electrostatic application equipment for non-ignitable liquid coating material — Safety requirements  
Stacionarna oprema za elektrostatsko nanošenje nezapaljivih tekućih tvari za premazivanje — Sigurnosni zahtjevi

FprEN 60079-0:2011 en  
Explosive atmospheres — Part 0: Equipment — General requirements (IEC 60079-0:2011, MOD)  
Eksplozivne atmosfere — 0. dio: Oprema — Opći zahtjevi (IEC 60079-0:2011, MOD)

EN 60079-11:2012 en  
Explosive atmospheres — Part 11: Equipment protection by intrinsic safety "i"  
(IEC 60079-11:2011+Corr.:2012)  
Eksplozivne atmosfere — 11. dio: Vrsta zaštite opreme samosigurnost "i" (IEC 60079-11:2011+Corr.:2012)

EN 60079-35-1:2011+AC:2011 en  
Explosive atmospheres — Part 35-1: Caplights for use in mines susceptible to firedamp — General requirements — Construction and testing in relation to the risk of explosion (IEC 60079-35-1:2011)  
Eksplozivne atmosfere — Dio 35-1: Kapne svjetiljke za rudnike ugrožene jamskom atmosferom — Opći zahtjevi — Konstrukcija i ispitivanje u odnosu na rizik od eksplozije (IEC 60079-35-1:2011)

EN ISO/IEC 80079-34:2011 en  
Explosive atmospheres — Part 34: Application of quality systems for equipment manufacture (ISO/IEC 80079-34:2011, MOD)  
Eksplozivne atmosfere — 34. Dio: Primjena sustava upravljanja kvalitetom u proizvodnji opreme (ISO/IEC 80079-34:2011, MOD)

### **HZN/TO E34, Žarulje, svjetiljke i pripadna oprema**

EN 60061-1:1993/A41:2009 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am41:2009)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am41:2009)

EN 60061-1:1993/A42:2009 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am42:2009)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am42:2009)

EN 60061-1:1993/A43:2010 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am43:2010)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am43:2010)

EN 60061-1:1993/A44:2010 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am44:2010)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am44:2010)

EN 60061-1:1993/A45:2011 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am45:2011)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am45:2011)

EN 60061-1:1993/A46:2011 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1: Lamp caps (IEC 60061-1:1969/am46:2011)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti — 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am46:2011)

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Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 2: Lampholders (IEC 60061-2:1969/am38:2009)

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Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am41:2010)  
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- EN 60061-4:1992/A13:2011 en  
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- EN 60081:1998/A4:2010 en  
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- EN 60238:2004/A2:2011 en  
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- EN 60357:2003/A3:2011 en  
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Halogene volframove žarulje (osim žarulja za vozila) – Izvedbeni zahtjevi (IEC 60357:2002/am3:2011)
- EN 60400:2008/A1:2011 en  
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- EN 60598-1:2008/A11:2009 en  
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- EN 60598-2-14:2009 en  
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- EN 60598-2-2:2012 en  
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- EN 60598-2-20:2010+AC:2010 en  
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- EN 60598-2-3:2003/A1:2011 en  
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- EN 60809:1996/FprA5:201X en  
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- EN 60838-1:2004/A2:2011 en  
Miscellaneous lampholders — Part 1: General requirements and tests (IEC 60838-1:2004/am2:2011)  
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- EN 60838-2-2:2006/FprA1:2011 en  
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Raznovrsna grla za žarulje — Dio 2-2: Posebni zahtjevi — Priključci za module svjetlećih dioda (IEC 60838-2-2:2006/A1:201X)
- EN 60901:1996/A5:201X en  
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Fluorescentne cijevi s jednim podnoškom — Izvedbeni zahtjevi (IEC 60901:1996/am5:2011)
- EN 60929:2011+AC:2011 en  
AC and/or DC-supplied electronic control gear for tubular fluorescent lamps — Performance requirements (IEC 60929:2011+Corr.:2011)  
Elektroničke predspojne naprave koje se napajaju izmjeničnom i/ili istosmjernom strujom namijenjene fluorescentnim cijevima — Izvedbeni zahtjevi (IEC 60929:2011+Corr.:2011)
- EN 61167:2011 en  
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- EN 61184:2008/A1:2011 en  
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- EN 61231:2010 en  
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- EN 61347-1:2008/A1:2011 en  
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- EN 61347-2-10:2001/A1:2009 en  
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- EN 61347-2-12:2005/A1:2010 en  
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- EN 61347-2-2:201X en  
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- EN 61347-2-3:2011+AC:2011 en  
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- EN 61547:2009 en  
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- EN 62386-101:2009 en  
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- EN 62386-201:2009 en  
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- EN 62386-202:2009 en  
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- EN 62386-203:2009 en  
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- EN 62386-204:2009 en  
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- EN 62386-205:2009 en  
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- EN 62386-206:2009 en  
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- EN 62386-207:2009 en  
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- EN 62386-208:2009 en  
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- EN 62386-209:2011 en  
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- EN 62386-210:2011 en  
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- EN 62442-1:2011 en  
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- Energetske značajke predspojnih naprava – 1. dio: Predspojne naprave za fluorescentne žarulje – Mjerne metode za određivanje ukupne ulazne snage krugova predspojne naprave i njezine iskoristivosti (IEC 62442-1:2011)
- EN 62493:2010 en  
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- EN 62532:2011 en  
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- EN 62554:2011 en  
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Pripremanje uzorka za mjerenje razine žive u fluorescentnim cijevima (IEC 62554:2011)
- FprEN 62612:2011 en  
Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements (IEC 62612:201X)  
Samopriigušujuće žarulje sa svjetlećim diodama za opću rasvjetnu namjenu s naponom napajanja većim od 50 V – Izvedbeni zahtjevi (IEC 62612:201X)
- FprEN 62639:2011 en  
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- HZN/TO E44, Elektrotehnička sigurnost strojeva**
- FprEN 61496-2:2011 en  
Safety of machinery – Electro-sensitive protective equipment – Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs) (IEC 61496-2:201X)
- HZN/TO E45, Nuklearna instrumentacija**
- prEN 61513 en  
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- EN 60300-3-12:2011 en  
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Upravljanje pouzdanošću – Dio 3-12: Upute za primjenu – Integrirana logistička potpora (IEC 60300-3-12:2011)
- EN 61709:2011 en  
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- HZN/TO E59, Uporabne značajke električnih kućanskih aparata**
- prEN 60312-1:2011 en  
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FprEN 60312-3:2011 en  
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FprEN 60705:2011 en  
Household microwave ovens — Methods for measuring performance (IEC 60705:2010, MOD)

### **HZN/TO E62, Električna oprema u medicinskoj praksi**

EN 60601-2-1:201X en  
Medical electrical equipment — Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV (IEC 60601-2-1:2009)

EN 60601-2-1:201X/FprA1:2011 en  
Medical electrical equipment — Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV (IEC 60601-2-1:2009/am1:201X)

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### **HZN/TO E64, Električne instalacije i zaštita od električnog udara**

HD 60364-4-42:2011 en  
Low voltage electrical installations — Part 4-42: Protection for safety — Protection against thermal effects (IEC 60364-4-42:2010, MOD)  
Niskonaponske električne instalacije — Dio 4-42: Sigurnosna zaštita — Zaštita od toplinskih učinaka (IEC 60364-4-42:2010, MOD)

HD 60364-4-442:2012 en  
Low-voltage electrical installations — Part 4-442: Protection for safety — Protection of low-voltage installations against temporary overvoltages due to earth faults in the high-voltage system and due to faults in the low voltage system (IEC 60364-4-44:2007(CLAUSE 442), MOD)  
Niskonaponske električne instalacije — Dio 4-442: Sigurnosna zaštita — Zaštita niskonaponskih instalacija od privremenih prenapona zbog zemljospoja u visokonaponskom sustavu i zbog kvarova u niskonaponskom sustavu (IEC 60364-4-44:2007(CLAUSE 442), MOD)

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Low-voltage electrical installations — Part 5-52: Selection and erection of electrical equipment — Wiring systems (IEC 60364-5-52:2009, MOD+Corr:2011)  
Niskonaponske električne instalacije — Dio 5-52: Odabir i ugradnja električne opreme — Sustavi razvođenja (IEC 60364-5-52:2009, MOD+Corr:2011)

HD 60364-5-54:2011 en  
Low-voltage electrical installations — Part 5-54: Selection and erection of electrical equipment — Earthing arrangements and protective conductors (IEC 60364-5-54:2011)  
Niskonaponske električne instalacije — Dio 5-54: Odabir i ugradnja električne opreme — Uzemljenja i zaštitni vodiči (IEC 60364-5-54:2011)

HD 60364-7-701:2007/A11:2011 en  
Low-voltage electrical installations — Part 7-701: Requirements for special installations or locations — Locations containing a bath or shower  
Niskonaponske električne instalacije — Dio 7-701: Zahtjevi za posebne instalacije ili prostore — Prostori s kadmom ili tušem

### **HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa**

FprEN 62603-1:2011 en  
Industrial process control systems — Guidelines for evaluating process control systems — Part 1: Specifications (IEC 62603-1:201X)

### **HZN/TO E81, Zaštita od munje**

FprEN 62305-2:2011 en  
Protection against lightning — Part 2: Risk management (IEC 62305-2:2010, MOD)

### **HZN/TO E85, Oprema za mjerenje električnih i elektromagnetskih veličina**

FprEN 61557-10:2011 en  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. — Equipment for testing, measuring or monitoring of protective measures — Part 10: Combined measuring equipment for testing, measuring or monitoring of protective measures (IEC 61557-10:201X)

FprEN 61557-14:2011 en  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. — Equipment for testing, measuring or monitoring of protective measures — Part 14: Equipment for testing the safety of electrical equipment of machinery (IEC 61557-14:201X)

### **HZN/TO E95, Mjerni releji i zaštitna oprema**

FprEN 60255-26:2011 en  
Measuring relays and protection equipment — Part 26: Electromagnetic compatibility requirements (IEC 60255-26:201X)

### **HZN/TO E100, Audio, video i multimedijski sustavi te njihova oprema**

FprEN 50849:2011 en  
Sound systems for emergency purposes

FprEN 60728-3-1:2011 en  
Cable networks for television signals, sound signals and interactive services — Part 3-1: Methods of measurement of non-linearity for full digital channel load with DVB-C signals (IEC 60728-3-1:201X)

### **HZN/TO E106, Elektromagnetska polja u ljudskome okolišu**

prEN 50566:2011 en  
Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices (30 MHz - 6 GHz)

### **HZN/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije**

CLC/FprTS 62441:2011 en  
Safeguards against accidentally caused candle flame ignition for audio/video, communication and information technology equipment (IEC/TS 62441:2011)

### **HZN/TO E501, Elektroakustika i ultrazvuk**

HD 443 S1:1983 en  
Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts (IEC 60711:1981)  
Simulator začepljenih ušiju za mjerenje slušalica spregnutih s ušima preko ušnih umetaka (IEC 60711:1981)

- HD 450.3 S1:1984 en  
Hearing aids — Part 3: Hearing aid equipment not entirely worn on the listener (IEC 60118-3:1983)  
Slušna pomagala — 3. dio: Slušna pomagala, kod kojih slušatelj ne nosi sve dijelove na sebi (IEC 60118-3:1983)
- HD 450.5 S1:1985 en  
Hearing aids — Part 5: Nipples for insert earphones (IEC 60118-5:1983)  
Slušna pomagala — 5. dio: Izdanci za uložne slušalice (IEC 60118-5:1983)
- HD 450.9 S1:1987 en  
Hearing aids — Part 9: Methods of measurement of characteristics of hearing aids with bone vibrator output (IEC 60118-9:1985)  
Slušna pomagala — 9. dio: Postupci mjerenja značajki slušnih pomagala s vibratorom za koštanu vodljivost (IEC 60118-9:1985)
- EN 60645-6:2010 en  
Electroacoustics — Audiometric equipment — Part 6: Instruments for the measurement of otoacoustic emissions (IEC 60645-6:2009)  
Elektroakustika — Audiometrijska oprema — 6. dio: Instrumenti za mjerenje otoakustičkih emisija (IEC 60645-6:2009)
- EN 60645-7:2010 en  
Electroacoustics — Audiometric equipment — Part 7: Instruments for the measurement of auditory brainstem responses (IEC 60645-7:2009)  
Elektroakustika — Audiometrijska oprema — 7. dio: Instrumenti za mjerenje audio odziva moždanog debla (IEC 60645-7:2009)
- EN 61157:2007/FprA1:2011 en  
Standard means for the reporting of the acoustic output of medical diagnostic ultrasonic equipment (IEC 61157:2007/am1:201X)
- FprEN 61161:2011 en  
Ultrasonics — Power measurement — Radiation force balances and performance requirements (IEC 61161:201X)
- FprEN 61260-1:2011 en  
Electroacoustics — Octave-band and fractional-octave-band filters — Part 1: Specifications (IEC 61260-1:201X)
- FprEN 61689:2011 en  
Ultrasonics — Physiotherapy systems — Field specifications and methods of measurement in the frequency range 0,5 MHz to 5 MHz (IEC 61689:201X)
- EN 62127-1:2007/FprA1:2011 en  
Ultrasonics — Hydrophones — Part 1: Measurement and characterization of medical ultrasonic fields up to 40 MHz (IEC 62127-1:2007/am1:201X)
- EN 62127-2:2007/FprA1:2011 en  
Ultrasonics — Hydrophones — Part 2: Calibration for ultrasonic fields up to 40 MHz (IEC 62127-2:2007/am1:201X)
- EN 62127-3:2007/FprA1:2011 en  
Ultrasonics — Hydrophones — Part 3: Properties of hydrophones for ultrasonic fields up to 40 MHz (IEC 62127-3:2007/am1:201X)
- FprEN 62555:2011 en  
Ultrasonics — Power measurement — Output power measurement for high intensity therapeutic ultrasound (HITU) transducers and systems (IEC 62555:201X)

## **HZN/TO E502, *Elektrotehnički aspekti telekomunikacijske opreme***

- EN 50173-5:2007/prAB:2011 en  
Information technology — Generic cabling systems — Part 5: Data centres

- CLC/FprTR 50173-99-3:2011 en  
Information technology — Generic cabling systems — Part 99-3: Home cabling infrastructures up to 50 m in length to support simultaneous and non simultaneous provision of applications

## **HZN/TO T4, *Normizacija u telekomunikacijama***

- TBR 023 ed.1:1998 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Terrestrial Flight Telecommunications System (TFTS) — Technical requirements for TFTS  
Elektromagnetska kompatibilnost i radijski spektar (ERM) — Terestrijalni telekomunikacijski sustav letenja (TFTS) — Tehnički zahtjevi za TFTS
- TBR 026 ed.1:1998 en  
Satellite Earth Stations and Systems (SES) — Low data rate Land Mobile satellite Earth Stations (LMES) operating in the 1,5/1,6 GHz frequency bands  
Satelitske zemaljske postaje i sustavi (SES) — Kopnene pokretne satelitske zemaljske postaje malih podatkovnih brzina (LMES) u frekvencijskim pojasevima 1,5/1,6 GHz
- TBR 027 ed.1:1997 en  
Satellite Earth Stations and Systems (SES) — Low data rate Land Mobile satellite Earth Stations (LMES) operating in the 11/12/14 GHz frequency bands  
Satelitske zemaljske postaje i sustavi (SES) — Kopnene pokretne satelitske zemaljske postaje malih podatkovnih brzina (LMES) u frekvencijskim pojasevima 11/12/14 GHz
- TBR 028 ed.1:1997 en  
Satellite Earth Stations and Systems (SES) — Very Small Aperture Terminal (VSAT) — Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 GHz frequency bands  
Satelitske zemaljske postaje i sustavi (SES) — Terminal s vrlo malim otvorom (VSAT) — Samo odašiljačke, odašiljačko/prijamne ili samo prijamne satelitske zemaljske postaje u frekvencijskim pojasevima 11/12/14 GHz
- TBR 030 ed.1:1997 en  
Satellite Earth Stations and Systems (SES) — Satellite News Gathering (SNG) Transportable Earth Stations (TES) operating in the 11-12/13-14 GHz frequency bands  
Satelitske zemaljske postaje i sustavi (SES) — Satelitske prevoznice zemaljske postaje za novinstvo (SNG TES) u frekvencijskim pojasevima 11/12/13-14 GHz
- TBR 035 ed.1:1998 en  
Terrestrial Trunked Radio (TETRA) — Emergency access  
Terestrijalni trunking radio (TETRA) — Pristup u uvjetima nužne potrebe
- TBR 041 ed.1:1998 en  
Satellite Personal Communications Networks (S-PCN) — Mobile Earth Stations (MES), including handheld earth stations, for S-PCN in the 1,6/2,4 GHz bands under the Mobile Satellite Service (MSS) — Terminal essential requirements  
Satelitske mreže personalnih komunikacija (S-PCN) — Pokretne zemaljske postaje (MES), zajedno s ručnim zemaljskim postajama, za S-PCN u frekvencijskim pojasevima 1,6/2,4 GHz u pokretnoj satelitskoj službi (MSS) — Bitni zahtjevi za terminal
- TBR 042 ed.1:1998 en  
Satellite Personal Communications Networks (S-PCN) — Mobile Earth Stations (MES), including handheld earth stations, for S-PCN in the 2,0 GHz bands under the Mobile Satellite Service (MSS) — Terminal essential requirements

- Satelitske mreže personalnih komunikacija (S-PCN) – Pokretne zemaljske postaje (MES), zajedno s ručnim zemaljskim postajama, za S-PCN u frekvencijskim pojasevima 2,0 GHz u pokretnoj satelitskoj službi (MSS) – Bitni zahtjevi za terminal
- TBR 043 ed.1:1998 en  
Satellite Earth Stations and Systems (SES) – Very Small Aperture Terminal (VSAT) transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz frequency bands  
Satelitske zemaaljske postaje i sustavi (SES) – Terminal s vrlo malim otvorom (VSAT) samo odašiljačke, odašiljčko/prijamne ili samo prijamne satelitske Zemljine postaje u frekvencijskim pojasevima 4 i 6 GHz
- TBR 044 ed.1:1998 en  
Satellite Earth Stations and Systems (SES) – Land Mobile Earth Stations (LMES) operating in the 1,5 GHz and 1,6 GHz frequency bands providing voice and/or data communications  
Satelitske zemaljske postaje i sustavi (SES) – Kopnene pokretne Zemljine postaje (LMES) u frekvencijskim pojasevima 1,5 GHz i 1,6 GHz za glasovne i/ili podatkovne komunikacije
- EN 300 373-2 V1.2.1:2009 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime mobile transmitters and receivers for use in the MF and HF bands – Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Pomorski odašiljači i prijamnici za uporabu u MF i HF pojasima – 2. dio: Harmonizirana europska norma EN obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 300 422-2 V1.3.1:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Bežični mikrofoni u frekvencijskome području od 25 MHz do 3GHz – 2. dio: Usklađena europska norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 300 433-2 V1.3.1:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Citizens' Band (CB) radio equipment – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Radijska oprema u građanskome pojasu (CB) – 2. dio: Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 300 676-2 V1.5.1:2011 en  
Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation – Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive  
VHF ručni, pokretni i nepokretni odašiljači, prijamnici i primoodašiljači na tlu za zrakoplovnu pokretnu službu u VHF području s amplitudnom modulacijom – 2. dio: Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 301 489-1 V1.9.2:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma elektromagnetske kompatibilnosti (EMC) za radijsku opremu i službe – 1. dio: Zajednički tehnički zahtjevi
- EN 301 908-1 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 1: Introduction and common requirements  
Celularne mreže IMT – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 1. dio: Uvod i opći zahtjevi
- EN 301 908-2 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)  
Celularne mreže IMT – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 2. dio: CDMA tehnika izravnoga raspršivanja spektra (UTRA FDD) Korisnička oprema (UE)
- EN 301 908-3 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)  
Celularne mreže IMT – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 3. dio: CDMA tehnika izravnoga raspršivanja spektra (UTRA FDD) Bazne postaje (BS)
- EN 301 908-4 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 4: CDMA Multi-Carrier (cdma2000) User Equipment (UE)  
Celularne mreže IMT – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 4. dio: CDMA s više nositelja (cdma2000) Korisnička oprema (UE)
- EN 301 908-5 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 5: CDMA Multi-Carrier (cdma2000) Base Stations (BS)  
Celularne mreže IMT – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 5. dio: CDMA s više nositelja (cdma2000) Bazne postaje (BS)
- EN 301 908-6 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 6: CDMA TDD (UTRA TDD) User Equipment (UE)  
Celularne IMT mreže – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 6. dio: CDMA TDD (UTRA TDD) Korisnička oprema (UE)
- EN 301 908-7 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)  
Celularne IMT mreže – Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 6. dio: CDMA TDD (UTRA TDD) Bazne postaje (BS)
- EN 301 908-11 V5.2.1:2011 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 11: CDMA Direct Spread (UTRA FDD) (Repeaters)

- Celularne IMT mreže — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 11. dio: CDMA tehnika izravnoga raspršivanja spektra (UTRA FDD) (Repetitori)
- EN 301 908-13 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)  
Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 13. dio: Razvijeni univerzalni terestrijalni radijski pristup (E-UTRA) Korisnička oprema (UE)
- EN 301 908-14 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)  
Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 14. dio: Razvijeni univerzalni terestrijalni radijski pristup (E-UTRA) Bazne postaje (BS)
- EN 301 908-15 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) (Repeaters)  
Celularne IMT mreže — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 15. dio: Razvijeni svjetski terestrijalni radijski pristup (E-UTRA FDD) (Repetitori)
- EN 301 908-18 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)  
Celularne IMT mreže — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 18. dio: E-UTRA, UTRA i GSM/EDGE višestandardni radio (MSR) Bazna postaja (BS)
- EN 301 908-19 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)  
Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 19. dio: OFDMA TDD WMAN (Pokretni Wimax) TDD Korisnička oprema (UE)
- EN 301 908-20 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)  
Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 20. dio: OFDMA TDD WMAN (Pokretni Wimax) TDD Bazne postaje
- EN 301 908-21 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 21: OFDMA TDD WMAN (Mobile WiMAX) FDD User Equipment (UE)  
Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 21. dio: OFDMA TDD WMAN (Pokretni Wimax) FDD Korisnička oprema (UE)
- EN 301 908-22 V5.2.1:2011 en  
IMT cellular networks — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive — Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)
- Celularne mreže IMT — Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE — 22. dio: OFDMA TDD WMAN (Pokretni Wimax) FDD Bazne postaje
- EN 302 296-2 V1.2.1:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T) — Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) — Odašiljačka oprema za uslugu terestrijalne digitalne TV (DVB-T) — 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 302 372-2 V1.2.1:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Equipment for Detection and Movement — Tanks Level Probing Radar (TLPR) operating in the frequency bands 5,8 GHz, 10 GHz, 25 GHz, 61 GHz and 77 GHz — Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) — Uređaji kratkoga dometa (SRD) — Oprema za otkrivanje i kretanje — Radar za ispitivanje razine u spremnicima (TLPR) koji rade u frekvencijskim područjima od 5,8 GHz, 10 GHz, 25 GHz, 61 GHz i 77 GHz — 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 302 686 V1.1.1:2011 en  
Intelligent Transport Systems (ITS) — Radiocommunications equipment operating in the 63 GHz to 64 GHz frequency band — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Inteligentni transportni sustavi (ITS) — Radiokomunikacijska oprema za frekvencijsko područje od 63 GHz do 64 GHz — Harmonizirana europska norma obuhvaća bitne zahtjeve iz članka 3.2 R&TTE Direktive
- EN 302 729-2 V1.1.2:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz — Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) — Uređaji kratkoga dometa (SRD) — Radarska oprema za kontrolu razine (LPR) koja radi u frekvencijskim područjima od 6 GHz do 8,5 GHz, od 24,05 GHz do 26,5 GHz, od 57 GHz do 64 GHz, od 75 GHz do 85 GHz — 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve članka 3.2 direktive R&TTE
- EN 302 774 V1.1.1:2011 en  
Broadband Wireless Access Systems (BWA) in the 3400 MHz to 3800 MHz frequency band — Base Stations — Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Sustavi širokopojsnoga bežičnog pristupa (BWA) u frekvencijskome pojasu od 3400 MHz do 3800 MHz — Bazne postaje — Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 302 885-2 V1.1.1:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC — Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Prijenosna radiotelefonska oprema vrlo visoke frekvencije (VHF) za pomorsku pokretnu službu koja radi u VHF pojasima sa integriranim dlanovnikom razreda D DSC – 2. dio: Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE

EN 302 885-3 V1.1.1:2011 en

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 3: Harmonized EN covering the essential requirements of article 3.3(e) of the R&TTE Directive

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Prijenosna radiotelefonska oprema vrlo visoke frekvencije (VHF) za pomorsku pokretnu službu koja radi u VHF pojasima sa integriranim dlanovnikom razreda D DSC – 2. dio: Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.3(e) direktive R&TTE

EN 302 998-1 V1.1.1:2011 en

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Transmitting equipment for terrestrial mobile TV to provide multimedia multicast service – Part 1: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Common requirements

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Odašiljačka oprema za terestrijalnu pokretnu TV za multimedijску uslugu – 1. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – Opći zahtjevi

EN 302 998-2 V1.1.1:2011 en

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Transmitting equipment for terrestrial mobile TV to provide multimedia multicast service – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Test Arrangements for transmitters utilizing OFDM technology

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Odašiljačka oprema za terestrijalnu pokretnu TV za multimedijскую uslugu – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – Raspored za odašiljače koji rade s pomoću OFDM tehnologije

EN 303 213-6-1 V1.1.1:2011 en

Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 6: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for deployed surface movement radar sensors – Sub-part 1: X-band sensors using pulsed signals and transmitting power up to 100 kW

Napredni sustav vođenja i kontrole kretanja površinom (A-SMGCS) – 6. dio: Harmonizirana europska EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE za stavljanje u uporabu radarskih senzora kretanja površinom – 1. pod-dio: Senzori u X području s impulsnim signalima i snagom odašiljanja do 100 kW

### **HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

prEN 131-7 en

Ladders – Part 7: Mobile ladders with platform

### **HZN/TU I3, Strojarstvo 3**

FprEN 1143-1 en

Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms  
Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – 1. dio: Sefovi, sefovi bankomata, trezorska vrata i trezori

prEN 1300 rev en

Secure storage units – Classification for high security locks according to their resistance to unauthorized opening  
Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje

### **HZN/TU N1, Nemetalni materijali 1**

EN 15359:2011 en

Solid recovered fuels – Specifications and classes

### **HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**

prEN ISO 1797-3 en

Dentistry – Shanks for rotary instruments – Part 3: Shanks made of ceramics (ISO/DIS 1797-3:2011)

FprEN ISO 5832-2 en

Implants for surgery – Metallic materials – Part 2: Unalloyed titanium (ISO 5832-2:1999)

FprEN ISO 5832-3 en

Implants for surgery – Metallic materials – Part 3: Wrought titanium 6-aluminium 4-vanadium alloy (ISO 5832-3:1996+Amd 1:2011)

EN ISO 10328:2006/prA1 en

Prosthetics – Structural testing of lower-limb prostheses – Requirements and test methods (ISO 10328:2006/DAM 1:2011)

prEN ISO 10555-1 rev en

Intravascular catheters – Sterile and single-use catheters – Part 1: General requirements (ISO/DIS 10555-1:2011)

prEN ISO 10555-3 rev en

Intravascular catheters – Sterile and single-use catheters – Part 3: Central venous catheters (ISO/DIS 10555-3:2011)

prEN ISO 10555-4 en

Intravascular catheters – Sterile and single-use catheters – Part 4: Balloon dilatation catheters (ISO/DIS 10555-4:2011)

prEN ISO 10555-5 en

Intravascular catheters – Sterile and single-use catheters – Part 5: Over-needle peripheral catheters (ISO/DIS 10555-5:2011)

EN ISO 22675:2006/prA1 en

Prosthetics – Testing of ankle-foot devices and foot units – Requirements and test methods (ISO 22675:2006/DAM 1:2011)

FprEN ISO 81060-1 en

Non-invasive sphygmomanometers – Part 1: Requirements and test methods for non-automated measurement type (ISO 81060-1:2007)

### **HZN/TU S2, Zdravlje, okoliš i medicinska oprema 2**

FprEN 15933 en

Sludge, treated biowaste and soil – Determination of pH

FprEN 15934 en

Sludge, treated biowaste, soil and waste – Calculation of dry matter fraction after determination of dry residue or water content

- FprEN 15935 en  
Sludge, treated biowaste, soil and waste –  
Determination of loss on ignition
- FprEN 15936 en  
Sludge, treated biowaste, soil and waste –  
Determination of total organic carbon (TOC) by dry  
combustion
- FprCEN/TS 15937 en  
Sludge, treated biowaste and soil – Determination of  
specific electrical conductivity
- FprCEN/TS 16177 en  
Sludge, treated biowaste and soil – Extraction for  
the determination of extractable ammonia, nitrate  
and nitrite
- FprCEN/TS 16178 en  
Sludge, treated biowaste and soil – Determination of  
pharmaceutical products
- FprCEN/TS 16181 en  
Sludge, treated biowaste and soil – Determination  
of polycyclic aromatic hydrocarbons (PAH) by gas  
chromatography (GC) and high performance liquid  
chromatography (HPLC)
- FprCEN/TS 16182 en  
Sludge treated biowaste and soil – Determination  
of nonylphenols (NP) and nonylphenol-mono- and  
diethoxylates using gas chromatography with mass  
selective detection (GC-MS)
- FprCEN/TS 16183 en  
Sludge, treated biowaste and soil – Determination of  
selected phthalates using capillary gas  
chromatography with mass spectrometric detection  
(GC-MS)
- FprCEN/TS 16188 en  
Sludge, treated biowaste and soil – Determination of  
elements in aqua regia and nitric acid digests – Flame  
atomic absorption spectrometry method (FAAS)
- FprCEN/TS 16189 en  
Sludge, treated biowaste and soil – Determination  
of linear alkylbenzene sulfonates (LAS) by high-  
performance liquid chromatography (HPLC) with  
fluorescence detection (FLD) or mass selective  
detection (MS)
- FprCEN/TS 16190 en  
Sludge, treated biowaste and soil – Determination  
of dioxins and furans and dioxin-like polychlorinated  
biphenyls by gas chromatography with high resolution  
mass selective detection (HR GC-MS)
- FprCEN/TR 16193 en  
Sludge, treated biowaste and soil – Detection and  
enumeration of *Escherichia coli*
- FprCEN/TS 16201 en  
Sludge, treated biowaste and soil – Determination of  
viable plant seeds and propagules
- FprCEN/TS 16202 en  
Sludge, treated biowaste and soil – Determination of  
impurities and stones

### **HZN/TU T1, *Prijevoz, rukovanje materijalima i pakiranje 1***

- prEN 415-1 rev en  
Safety of packaging machines – Part 1: Terminology  
and classification of packaging machines and  
associated equipment
- EN 2240-071:2011 en  
Aerospace series – Lamps, incandescent – Part 071:  
Lamp, code 3011 – Product standard
- EN 2240-072:2011 en  
Aerospace series – Lamps, incandescent – Part 072:  
Lamp, code 3912 – Product standard

- EN 2240-073:2011 en  
Aerospace series – Lamps, incandescent – Part 073:  
Lamp, code 4174 – Product standard
- EN 2240-074:2011 en  
Aerospace series – Lamps, incandescent – Part 074:  
Lamp, code 5086 – Product standard
- EN 2240-075:2011 en  
Aerospace series – Lamps, incandescent – Part 075:  
Lamp, code 5448 – Product standard
- EN 2240-076:2011 en  
Aerospace series – Lamps, incandescent – Part 076:  
Lamp, code 5678 – Product standard
- EN 2240-077:2011 en  
Aerospace series – Lamps, incandescent – Part 077:  
Lamp, code 6832 – Product standard
- EN 2240-078:2011 en  
Aerospace series – Lamps, incandescent – Part 078:  
Lamp, code 6838 – Product standard
- EN 2240-079:2011 en  
Aerospace series – Lamps, incandescent – Part 079:  
Lamp, code 6839 – Product standard
- EN 2240-080:2011 en  
Aerospace series – Lamps, incandescent – Part 080:  
Lamp, code 7007-704 – Product standard
- EN 2240-081:2011 en  
Aerospace series – Lamps, incandescent – Part 081:  
Lamp, code 7070 – Product standard
- EN 2240-082:2011 en  
Aerospace series – Lamps, incandescent – Part 082:  
Lamp, code 7079 – Product standard
- EN 2240-083:2011 en  
Aerospace series – Lamps, incandescent – Part 083:  
Lamp, code 7152 – Product standard
- EN 2240-084:2011 en  
Aerospace series – Lamps, incandescent – Part 084:  
Lamp, code 7153 – Product standard
- EN 2240-085:2011 en  
Aerospace series – Lamps, incandescent – Part 085:  
Lamp, code 7265 – Product standard
- EN 2240-086:2011 en  
Aerospace series – Lamps, incandescent – Part 086:  
Lamp, code 7333 – Product standard
- EN 2240-087:2011 en  
Aerospace series – Lamps, incandescent – Part 087:  
Lamp, code 7341 – Product standard
- EN 2240-088:2011 en  
Aerospace series – Lamps, incandescent – Part 088:  
Lamp, code A7512-12 – Product standard
- EN 2240-089:2011 en  
Aerospace series – Lamps, incandescent – Part 089:  
Lamp, code A7512-24 – Product standard
- EN 2240-090:2011 en  
Aerospace series – Lamps, incandescent – Part 090:  
Lamp, code 7683 – Product standard
- EN 2240-091:2011 en  
Aerospace series – Lamps, incandescent – Part 091:  
Lamp, code 7714 – Product standard
- EN 2240-092:2011 en  
Aerospace series – Lamps, incandescent – Part 092:  
Lamp, code 7715 – Product standard
- EN 2240-093:2011 en  
Aerospace series – Lamps, incandescent – Part 093:  
Lamp, code 7839 – Product standard
- EN 2240-094:2011 en  
Aerospace series – Lamps, incandescent – Part 094:  
Lamp, code 8022 – Product standard
- EN 2240-095:2011 en  
Aerospace series – Lamps, incandescent – Part 095:  
Lamp, code 8552 – Product standard

- EN 2240-096:2011 en  
Aerospace series – Lamps, incandescent – Part 096: Lamp, code 72301-6 – Product standard
- EN 2240-097:2011 en  
Aerospace series – Lamps, incandescent – Part 097: Lamp, code 72601-12 – Product standard
- EN 2240-098:2011 en  
Aerospace series – Lamps, incandescent – Part 098: Lamp, code 416650 – Product standard
- EN 2240-099:2011 en  
Aerospace series – Lamps, incandescent – Part 099: Lamp, code 416700 – Product standard
- EN 2824:2011 en  
Aerospace series – Burning behaviour of non-metallic materials under the influence of radiating heat and flames – Determination of smoke density and gas components in the smoke of materials – Test equipment apparatus and media
- EN 3310:2011 en  
Aerospace series – Titanium alloy Ti-P64001 (Ti-6Al-4V) – Not heat treated – Forging stock, for annealed forgings – De = 360 mm
- EN 3844-1:2011 en  
Aerospace series – Flammability of non metallic materials – Part 1: Small burner test, vertical – Determination of the vertical flame propagation
- EN 3844-2:2011 en  
Aerospace series – Flammability of non metallic materials – Part 2: Small burner test, horizontal – Determination of the horizontal flame propagation
- EN 3844-3:2011 en  
Aerospace series – Flammability of non metallic materials – Part 3: Small burner test, 45° – Determination of the resistance of material to flame and glow propagation and to flame penetration
- EN 4612-002:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 002: General
- EN 4612-003:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 003: Tin plated copper – Operating temperatures, between - 65 °C and 135 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard
- EN 4612-004:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 004: Tin plated copper – Operating temperatures, between - 65 °C and 135 °C – Single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard
- EN 4612-005:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 005: Tin plated copper – Operating temperatures, between - 65 °C and 135 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard
- EN 4612-006:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 006: Tin plated copper – Operating temperatures, between - 65 °C and 135 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard
- EN 4612-007:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 007: Silver plated copper – Operating temperatures, between - 65 °C and 150 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard
- EN 4612-008:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 008: Silver plated copper – Operating temperatures, between - 65 °C and 150 °C – Single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard
- EN 4612-009:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 009: Silver plated copper – Operating temperatures, between - 65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard
- EN 4612-010:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 010: Silver plated copper – Operating temperatures, between - 65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard
- EN 4612-011:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 011: Nickel plated copper – Operating temperatures, between - 65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard
- EN 4612-012:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 012: Nickel plated copper – Operating temperatures, between - 65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard
- EN 4612-013:2011 en  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 013: SX, TC and UC – Nickel plated copper – Operating temperatures, between - 65 °C and 150 °C – Single extruded wall for equipment only, with jacket and screen (spiral) – UV laser printable – Product standard
- EN 4644-003:2011 en  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 003: Rectangular inserts – Product standard
- EN 4644-131:2011 en  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 131: Size 3 plug for rack and panel applications – Product standard

- EN 4644-133:2011 en  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 133: Size 3 receptacle for rack and panel application – Product standard
- EN 4644-141:2011 en  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 141: Size 4 plug for rack and panel applications – Product standard
- EN 15918:2011 en  
Cycles – Cycle trailer – Safety requirements and test methods

## HZN/TU U1, *Opća elektrotehnika 1*

- FprEN 50574:2011 en  
End of life requirements for household appliances containing volatile fluorocarbons or volatile hydrocarbons
- FprEN 60695-2-11:2011 en  
Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (IEC 60695-2-11:201X)
- FprEN 61788-16:2011 en  
Superconductivity – Part 16: Electronic characteristic measurements – Power-dependent surface resistance of superconductors at microwave frequencies (IEC 61788-16:201X)
- FprEN 61788-17:2011 en  
Superconductivity – Part 17: Electronic characteristic measurements – Local critical current density and its distribution in large-area superconducting films (IEC 61788-17:201X)
- FprEN 62656-1:2011 en  
Standardized product ontology register and transfer by spreadsheets – Part 1: Logical structure for data parcels (IEC 62656-1:201X)

## HZN/TU V1, *Elektronika 1*

- EN 50090-1:2011 en  
Home and Building Electronic Systems (HBES) – Part 1: Standardization structure
- prEN 50288-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 1: Generic specification
- prEN 50288-2-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 2-1: Sectional specification for screened cables characterised up to 100 MHz – Horizontal and building backbone cables
- prEN 50288-2-2:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 2-2: Sectional specification for screened cables characterised up to 100 MHz – Work area and patch cord cables
- prEN 50288-3-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 3-1: Sectional specification for unscreened cables characterised up to 100 MHz – Horizontal and building backbone cables
- prEN 50288-3-2:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 3-2: Sectional specification for unscreened cables characterised up to 100 MHz – Work area and patch cord cables

- prEN 50288-4-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 4-1: Sectional specification for screened cables characterised up to 600 MHz – Horizontal and building backbone cables
- prEN 50288-4-2:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 4-2: Sectional specification for screened cables characterised up to 600 MHz – Work area and patch cord cables
- prEN 50288-5-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 5-1: Sectional specification for screened cables characterised up to 250 MHz – Horizontal and building backbone cables
- prEN 50288-5-2:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 5-2: Sectional specification for screened cables characterised up to 250 MHz – Work area and patch cord cables
- prEN 50288-6-1:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 6-1: Sectional specification for unscreened cables characterised up to 250 MHz – Horizontal and building backbone cables
- prEN 50288-6-2:2011 en  
Multi-element metallic cables used in analogue and digital communication and control – Part 6-2: Sectional specification for unscreened cables characterised up to 250 MHz – Work area and patch cord cables
- EN 50289-4-17:2011 en  
Communication cables – Specifications for test methods – Part 4-17: Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable
- FprEN 50293:2011 en  
Electromagnetic compatibility – Road traffic signal systems
- EN 50377-4-2:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 4-2: Type SC/APC simplex 8° terminated on IEC 60793-2-50 of types B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U
- EN 50377-4-4:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 4-4: Type SC-PC simplex terminated on IEC 60793-2-50 category B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U
- EN 50377-7-4:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 7-4: LC-PC simplex terminated on IEC 60793-2-50 category B1.1 and B1.3 singlemode fibre with full zirconia ferrule for category C
- EN 50377-13-2:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 13-2: Type LX.5-PC DUPLEX terminated on IEC 60793-2-50 category B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U



- EN 50377-13-3:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 13-3: Type LX.5-APC DUPLEX terminated on IEC 60793-2-50 category B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U
- EN 50377-15-1:2011 en  
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 15-1: Type MPO with 12-fibre PPS ferrules terminated on IEC 60793-2 category A1a multimode fibre for 50/125 micron multimode fibre
- EN 50411-3-2:2011 en  
Fibre organisers and closures to be used in optical fibre communication systems – Product specifications – Part 3-2: Singlemode mechanical fibre splice
- EN 50548:2011 en  
Junction boxes for photovoltaic modules
- EN 50551-1:2011 en  
Simplex and duplex cables to be used for cords – Part 1: Blank Detail Specification and minimum requirements
- EN 60130-9:2011 en  
Connectors for frequencies below 3 MHz – Part 9: Circular connectors for radio and associated sound equipment (IEC 60130-9:2011)
- EN 60191-6-17:2011 en  
Mechanical standardization of semiconductor devices – Part 6-17: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for stacked packages – Fine-pitch ball grid array and fine-pitch land grid array (P-PFBGA and P-PFLGA) (IEC 60191-6-17:2011)
- EN 60352-8:2011 en  
Solderless connections – Part 8: Compression mount connections – General requirements, test methods and practical guidance (IEC 60352-8:2011)
- EN 60512-8-2:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 8-2: Static load tests (fixed connectors) – Test 8b: Static load, axial (IEC 60512-8-2:2011)
- EN 60512-8-3:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 8-3: Static load tests (fixed connectors) – Test 8c: Robustness of actuating lever (IEC 60512-8-3:2011)
- EN 60512-9-3:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 9-3: Endurance tests – Test 9c: Mechanical operation (engaging/separating) with electrical load (IEC 60512-9-3:2011)
- EN 60512-9-4:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 9-4: Endurance tests – Test 9d: Durability of contact retention system and seals (maintenance, ageing) (IEC 60512-9-4:2011)
- EN 60512-17-2:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 17-2: Cable clamping tests – Test 17b: Cable clamp resistance to cable rotation (IEC 60512-17-2:2011)
- EN 60512-26-100:2008/A1:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 – Tests 26a to 26g (IEC 60512-26-100:2008/am1:2011)
- FprEN 60512-28-100:2011 en  
Connectors for electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 1000 mhz on IEC 60603-7 and IEC 61076-3 series connectors – Tests 28a to 28g (IEC 60512-28-100:201X)
- EN 60603-7-1:2011 en  
Connectors for electronic equipment – Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors (IEC 60603-7-1:2011)
- EN 60679-6:2011 en  
Quartz crystal controlled oscillators of assessed quality – Part 6: Phase jitter measurement method for quartz crystal oscillators and SAW oscillators – Application guidelines (IEC 60679-6:2011)
- EN 60747-5-5:2011 en  
Semiconductor devices – Discrete devices – Part 5-5: Optoelectronic devices – Photocouplers (IEC 60747-5-5:2007)
- EN 60747-16-4:2004/A1:2011 en  
Semiconductor devices – Part 16-4: Microwave integrated circuits – Switches (IEC 60747-16-4:2004/am1:2009)
- EN 60749-23:2004/A1:2011 en  
Semiconductor devices – Mechanical and climatic test methods – Part 23: High temperature operating life (IEC 60749-23:2004/am1:2011)
- EN 60749-30:2005/A1:2011 en  
Semiconductor devices – Mechanical and climatic test methods – Part 30: Preconditioning of non-hermetic surface mount devices prior to reliability testing (IEC 60749-30:2005/am1:2011)
- EN 60793-1-30:2011 en  
Optical fibres – Part 1-30: Measurement methods and test procedures – Fibre proof test (IEC 60793-1-30:2010)
- FprEN 60793-1-42:2011 en  
Optical fibres – Part 1-42: Measurement methods and test procedures – Chromatic dispersion (IEC 60793-1-42:201X)
- EN 60793-1-44:2011 en  
Optical fibres – Part 1-44: Measurement methods and test procedures – Cut-off wavelength (IEC 60793-1-44:2011)
- EN 60793-2-10:2011 en  
Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres (IEC 60793-2-10:2011)
- EN 60793-2-40:2011 en  
Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres (IEC 60793-2-40:2009)
- FprEN 60793-2-50:2011 en  
Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres (IEC 60793-2-50:201X)
- FprEN 60794-1-22:2011 en  
Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental test methods (IEC 60794-1-22:201X)
- FprEN 60794-1-23:2011 en  
Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable elements test methods (IEC 60794-1-23:201X)
- FprEN 60794-4-20:2011 en  
Optical fibre cables – Part 4-20: Aerial optical cables along electrical power lines – Family specification for ADSS (All Dielectric Self Supported) optical cables (IEC 60794-4-20:201X)

- EN 60904-5:2011 en  
Photovoltaic devices — Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method (IEC 60904-5:2011)
- FprEN 61010-2-032:2011 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement (IEC 61010-2-032:201X)
- EN 61076-2:2011 en  
Connectors for electronic equipment — Product requirements — Part 2: Sectional specification for circular connectors (IEC 61076-2:2011)
- EN 61169-18:2011 en  
Radio-frequency connectors — Part 18: Sectional specification — Radio frequency coaxial connectors of type SSMA (IEC 61169-18:2011)
- EN 61169-19:2011 en  
Radio-frequency connectors — Part 19: Sectional specification — Radio frequency coaxial connectors of type SSMB (IEC 61169-19:2011)
- EN 61169-39:2011 en  
Radio-frequency connectors — Part 39: Sectional specification for CQM series quick lock RF connectors (IEC 61169-39:2009)
- EN 61169-40:2011 en  
Radio-frequency connectors — Part 40: Sectional specification for 2.4 series RF connectors (IEC 61169-40:2010)
- EN 61169-41:2011 en  
Radio-frequency connectors — Part 41: Sectional specification for CQA series quick lock R.F. coaxial connectors (IEC 61169-41:2011)
- FprEN 61169-43:2011 en  
Radio-frequency connectors — Part 43: Sectional specification for RBMA Series Blind mating RF coaxial connectors (IEC 61169-43:201X)
- FprEN 61189-11:2011 en  
Test methods for electrical materials, interconnection structures and assemblies — Part 11: Measurement of melting temperature or melting temperature ranges of solder alloys (IEC 61189-11:201X)
- FprEN 61191-1:2011 en  
Printed board assemblies — Part 1: Generic specification — Requirements for soldered electrical and electronic assemblies using surface mount and related assembly technologies (IEC 61191-1:201X)
- FprEN 61191-2:2011 en  
Printed board assemblies — Part 2: Sectional specification — Requirements for surface mount soldered assemblies (IEC 61191-2:201X)
- EN 61300-1:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 1: General and guidance (IEC 61300-1:2011)
- EN 61300-2-17:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 2-17: Tests — Cold (IEC 61300-2-17:2010)
- EN 61300-2-23:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 2-23: Tests — Sealing for non-pressurized closures of fibre optic devices (IEC 61300-2-23:2010)
- EN 61300-2-5:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 2-5: Tests — Torsion (IEC 61300-2-5:2009)
- EN 61300-2-6:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 2-6: Tests — Tensile strength of coupling mechanism (IEC 61300-2-6:2010)
- EN 61300-3-22:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 3-22: Examinations and measurements — Ferrule compression force (IEC 61300-3-22:2010)
- EN 61300-3-45:2011 en  
Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 3-45: Examinations and measurements — Attenuation of random mated multi-fibre connectors (IEC 61300-3-45:2011)
- EN 61746-1:2011 en  
Calibration of optical time-domain reflectometers (OTDR) — Part 1: OTDR for single-mode fibres (IEC 61746-1:2009)
- EN 61746-2:2011 en  
Calibration of optical time-domain reflectometers (OTDR) — Part 2: OTDR for multimode fibres (IEC 61746-2:2010)
- EN 61753-086-6:2011 en  
Fibre optic interconnecting devices and passive components — Performance standard — Part 086-6: Non-connectorized single-mode bidirectional 1490/1550 nm downstream and 1310 nm upstream WWDM devices for category O — Uncontrolled environment (IEC 61753-086-6:2010)
- EN 61753-087-2:2011+AC:2011 en  
Fibre optic interconnecting devices and passive components — Performance standard — Part 087-2: Non-connectorized single-mode bidirectional 1310 nm upstream and 1490 nm downstream WWDM devices for category C — Controlled environment (IEC 61753-087-2:2010)
- EN 61753-131-3:2011 en  
Fibre optic interconnecting devices and passive components — Performance standard — Part 131-3: Single-mode mechanical fibre splice for category U — Uncontrolled environment (IEC 61753-131-3:2010)
- EN 61753-141-2:2011 en  
Fibre optic interconnecting devices and passive components — Performance standard — Part 141-2: Fibre optic passive chromatic dispersion compensator using single-mode dispersion compensating fibre for category C — Controlled environments (IEC 61753-141-2:2011)
- EN 61837-2:2011 en  
Surface mounted piezoelectric devices for frequency control and selection — Standard outlines and terminal lead connections — Part 2: Ceramic enclosures (IEC 61837-2:2011)
- EN 61853-1:2011 en  
Photovoltaic (PV) module performance testing and energy rating — Part 1: Irradiance and temperature performance measurements and power rating (IEC 61853-1:2011)
- EN 62047-8:2011 en  
Semiconductor devices — Micro-electromechanical devices — Part 8: Strip bending test method for tensile property measurement of thin films (IEC 62047-8:2011)
- EN 62116:2011 en  
Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters (IEC 62116:2008, MOD)

- EN 62129-2:2011 en  
Calibration of wavelength/optical frequency measurement instruments – Part 2: Michelson interferometer single wavelength meters (IEC 62129-2:2011)
- EN 62132-2:2011 en  
Integrated circuits – Measurement of electromagnetic immunity – Part 2: Measurement of radiated immunity – TEM cell and wideband TEM cell method (IEC 62132-2:2010)
- EN 62148-2:2011 en  
Fibre optic active components and devices – Package and interface standards – Part 2: SFF 10-pin transceivers (IEC 62148-2:2010)
- EN 62148-3:2011+AC:2011 en  
Fibre optic active components and devices – Package and interface standards – Part 3: SFF 20-pin transceivers (IEC 62148-3:2010)
- EN 62149-5:2011 en  
Fibre optic active components and devices – Performance standards – Part 5: ATM-PON transceivers with LD driver and CDR ICs (IEC 62149-5:2009)
- EN 62150-2:2011 en  
Fibre optic active components and devices – Test and measurement procedures – Part 2: ATM-PON transceivers (IEC 62150-2:2010)
- EN 62258-2:2011 en  
Semiconductor die products – Part 2: Exchange data formats (IEC 62258-2:2011)
- EN 62341-6-1:2011 en  
Organic light emitting diode (OLED) displays – Part 6-1: Measuring methods of optical and electro-optical parameters (IEC 62341-6-1:2009)
- EN 62343-2:2011 en  
Dynamic modules – Part 2: Reliability qualification (IEC 62343-2:2011)
- EN 62374-1:2010+AC:2011 en  
Semiconductor devices – Part 1: Time-dependent dielectric breakdown (TDDB) test for inter-metal layers (IEC 62374-1:2010)
- EN 62496-2-2:2011 en  
Optical circuit boards – Part 2-2: Measurements – Dimensions of optical circuit boards (IEC 62496-2-2:2011)
- EN 62496-3:2011 en  
Optical circuit boards – Part 3: Performance standards – General and guidance (IEC 62496-3:2011)
- EN 62496-4:2011 en  
Optical circuit boards – Part 4: Interface standards – General and guidance (IEC 62496-4:2011)
- EN 62562:2011 en  
Cavity resonator method to measure the complex permittivity of low-loss dielectric plates (IEC 62562:2010)

### **HZN/TU W1, Energetska elektrotehnika 1**

- EN 50291-1:2010/FprAA:2011 en  
Electrical apparatus for the detection of carbon monoxide in domestic premises – Part 1: Test methods and performance requirements
- EN 60745-2-22:2011 en  
Hand-held motor-operated electric tools – Safety – Part 2-22: Particular requirements for cut-off machines (IEC 60745-2-22:2011, MOD)
- EN 60745-2-22:2011/FprAB:2011 en  
Hand-held motor-operated electric tools – Safety – Part 2-22: Particular requirements for cut-off machines

- EN 62097:2009/FprA1:2011 en  
Hydraulic machines, radial and axial – Performance conversion method from model to prototype (IEC 62097:2009/am1:201X)
- EN 62282-6-100:2010/FprA1:2011 en  
Fuel cell technologies – Part 6-100: Micro fuel cell power systems – Safety (IEC 62282-6-100:2010/am1:201X)

## **1.4 Povučene hrvatske norme**

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavoda za norme donosi odluku o povlačenju hrvatske norme kada je donesena nova hrvatska norma ili kada je postojeća hrvatska norma postala neprimjenjiva. Kada je koje područje uređeno propisima i neki od propisa (pravilnik, naredba, naputak) upućuje na norme koje su povučene, one se primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe novih, na raspolaganju u Normoteci HZN-a.

### **HZN/TO 6, Papir, karton i pulpe**

- HRN EN ISO 534:2005 en  
Papir i karton – Određivanje debljine, gustoće i specifičnog obujma (ISO 534:2005; EN ISO 534:2005)  
Paper and board – Determination of thickness, density and specific volume (ISO 534:2005; EN ISO 534:2005)  
- zamijenjena s: HRN EN ISO 534:2012

### **HZN/TO 22, Cestovna vozila**

- HRN ISO 2575:2004 en  
Cestovna vozila – Simboli za upravljanja, indikatore i pokazne svjetiljke (ISO 2575:2004)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2004)  
- zamijenjena s: HRN ISO 2575:2012
- HRN ISO 2575:2004/A1:2008 en  
Cestovna vozila – Simboli za upravljanje, indikatore i pokazne svjetiljke (ISO 2575:2004/Amd 1:2005)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2004/Amd 1:2005)  
- zamijenjena s: HRN ISO 2575:2012
- HRN ISO 2575:2004/A2:2008 en  
Cestovna vozila – Simboli za upravljanje, indikatore i pokazne svjetiljke (ISO 2575:2004/Amd 2:2006)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2004/Amd 2:2006)  
- zamijenjena s: HRN ISO 2575:2012
- HRN ISO 3930:2003 en  
Uređaji za mjerenje emisije ispuha vozila (ISO 3930:2000)  
Instruments for measuring vehicle exhaust emissions (ISO 3930:2000)  
- zamijenjena s: HRS ISO/PAS 3930:2012
- HRN ISO 3930:2003/A1:2008 en  
Uređaji za mjerenje emisije ispuha vozila (ISO 3930:2000/Amd 1:2004)  
Instruments for measuring vehicle exhaust emissions (ISO 3930:2000/Amd 1:2004)  
- zamijenjena s: HRS ISO/PAS 3930:2012
- HRN ISO 4000-1:2005 en  
Gume i naplatci za osobne automobile – 1. dio: Gume (milimetarski nizovi) (ISO 4000-1:2001+Amd 1:2004)  
Passenger car tyres and rims – Part 1: Tyres (metric series) (ISO 4000-1:2001+Amd 1:2004)  
- zamijenjena s: HRN ISO 4000-1:2012
- HRN ISO 4000-2:2005 en  
Gume i naplatci za osobne automobile – 2. dio: Naplatci (ISO 4000-2:2001)  
Passenger car tyres and rims – Part 2: Rims (ISO 4000-2:2001)  
- zamijenjena s: HRN ISO 4000-2:2012

- HRN ISO 4040:2005 en  
Cestovna vozila — Položaj ručnih upravljačkih naprava, indikatora i pokaznih svjetiljka u motornim vozilima (ISO 4040:2001)  
Road vehicles — Location of hand controls, indicators and tell-tales in motor vehicles (ISO 4040:2001)  
- zamijenjena s: HRN ISO 4040:2012
- HRN ISO 4141-4:2002 en  
Cestovna vozila — Višeslojni spojni kabeli — 4. dio: Metode ispitivanja i zahtjevi za kabele u obliku zavojnice (ISO 4141-4:2001)  
Road vehicles — Multi-core connecting cables — Part 4: Articulation test method and requirements for coiled cable assemblies (ISO 4141-4:2001)  
- zamijenjena s: HRN ISO 4141-4:2012
- HRN ISO 4251-4:2005 en  
Gume (nizovi s oznakom PR ('ply rating')) i naplatci za poljoprivredne traktore i strojeve — 4. dio: Razredba i nomenklatura guma (ISO 4251-4:1992)  
Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 4: Tyre classification and nomenclature (ISO 4251-4:1992)  
- zamijenjena s: HRN ISO 4251-4:2012
- HRN ISO 4925:2003 en  
Cestovna vozila — Tekućina za kočenje na nemineralnoj osnovi (ISO 4925:1978)  
Road vehicles — Non-petroleum base brake fluid (ISO 4925:1978)  
- zamijenjena s: HRN ISO 4925:2012
- HRN ISO 4926:2003 en  
Cestovna vozila — Hidraulični sustavi kočenja — Referencijske tekućine na nemineralnoj osnovi (ISO 4926:1978)  
Road vehicles — Hydraulic brake systems — Non-petroleum base reference fluids (ISO 4926:1978)  
- zamijenjena s: HRN ISO 4926:2012
- HRN ISO 4927:2003 en  
Cestovna vozila — Gumene kapice za cilindre na kotačima hidrauličnih kočnica s bubnjem koje upotrebljavaju tekućinu za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 4927:1978)  
Road vehicles — Elastomeric boots for drum type hydraulic brake wheel cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 120 degrees C maximum) (ISO 4927:1978)  
- zamijenjena s: HRN ISO 4927:2012
- HRN ISO 4928:2004 en  
Cestovna vozila — Gumene kapice i brtve za cilindre hidrauličnih kočnica kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 4928:1980)  
Road vehicles — Elastomeric cups and seals for cylinders for hydraulic braking systems using a non-petroleum base hydraulic brake fluid (Service temperature 120 degrees C max.) (ISO 4928:1980)  
- zamijenjena s: HRN ISO 4928:2012
- HRN ISO 4930:2004 en  
Cestovna vozila — Gumene brtve za cilindre hidrauličnih kočnica s diskom kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 150 °C) (ISO 4930:1978)  
Road vehicles — Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 150 degrees C max.) (ISO 4930:1978)  
- zamijenjena s: HRN ISO 4930:2012
- HRN ISO 6118:2004 en  
Cestovna vozila — Gumene kapice i brtve za cilindre hidrauličnih kočnica kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 70 °C) (ISO 6118:1980)  
Road vehicles — Elastomeric cups and seals for hydraulic brake actuating cylinders using a non-petroleum base hydraulic brake fluid (service temperature 70 degrees C max.) (ISO 6118:1980)  
- zamijenjena s: HRN ISO 6118:2012
- HRN ISO 6119:2004 en  
Cestovna vozila — Gumene brtve za cilindre hidrauličnih kočnica s diskom kod kojih se upotrebljava tekućina za kočenje na nemineralnoj osnovi (najviša radna temperatura 120 °C) (ISO 6119:1980)  
Road vehicles — Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 120 °C max.) (ISO 6119:1980)  
- zamijenjena s: HRN ISO 6119:2012
- HRN ISO 6310:2001 en  
Cestovna vozila — Kočne tarne obloge — Postupak ispitivanja tlačnog naprezanja (ISO 6310:2001)  
Road vehicles — Brake linings — Compressive strain test method (ISO 6310:2001)  
- zamijenjena s: HRN ISO 6310:2012
- HRN ISO 6460:2004 en  
Cestovna vozila — Metoda mjerenja emisije plinovitih štetnih sastojaka iz motocikala opremljenih motorom s vanjskim izvorom paljenja (ISO 6460:1981)  
Road vehicles — Measurement method of gaseous pollutants emitted by motorcycles equipped with a controlled ignition engine (ISO 6460:1981)  
- zamijenjena s: HRN ISO 6460-1:2012
- HRN ISO 6469-1:2002 en  
Električna cestovna vozila — Sigurnosne specifikacije — 1. dio: Spremanje električne energije na vozilu (ISO 6469-1:2001)  
Electric road vehicles — Safety specifications — Part 1: On-board electrical energy storage (ISO 6469-1:2001)  
- zamijenjena s: HRN ISO 6469-1:2012
- HRN ISO 6469-2:2002 en  
Električna cestovna vozila — Sigurnosne specifikacije — 2. dio: Funkcijska sigurnost i zaštita od kvarova (ISO 6469-2:2001)  
Electric road vehicles — Safety specifications — Part 2: Functional safety means and protection against failures (ISO 6469-2:2001)  
- zamijenjena s: HRN ISO 6469-2:2012
- HRN ISO 6519:2004 en  
Dizelski motori — Pumpe za ubrizgavanje goriva — Stošci za završetke vratila i glavine (ISO 6519:1993)  
Diesel engines — Fuel injection pumps — Tapers for shaft ends and hubs (ISO 6519:1993)  
- zamijenjena s: HRN ISO 6519:2012
- HRN ISO/TR 6546:2003 en  
Cestovna vozila — Uzorak formulara za prikupljanje informacija za studiju o nezgodama u kojima su upotrebljavani sigurnosni pojasevi (ISO/TR 6546:1979)  
Road vehicles — Information core appropriate to the field study of accidents in which seat belts are used (ISO/TR 6546:1979)  
- zamijenjena s: HRN ISO 6546:2012
- HRN ISO 6550-3:2003 en  
Cestovna vozila — Obloženi tip žarnica sa stožastim sjedištem i njihovo sjedište u glavi cilindra — 3. dio: M10 žarnica (ISO 6550-3:2002)  
Road vehicles — Sheath-type glow-plugs with conical seating and their cylinder head housing — Part 3: M10 glow-plugs (ISO 6550-3:2002)  
- zamijenjena s: HRN ISO 6550-3:2012
- HRN ISO 6621-1:2004 en  
Motori s unutarnjim izgaranjem — Klipni prstenovi — 1. dio: Rječnik (ISO 6621-1:1986)  
Internal combustion engines — Piston rings — Part 1: Vocabulary (ISO 6621-1:1986)  
- zamijenjena s: HRN ISO 6621-1:2012

- HRN EN 836:2008 en  
Garden equipment – Powered lawnmowers – Safety (EN 836:1997+A1:1997+A2:2001+A3:2004)  
- zamijenjena s: HRN EN 836:2012
- HRN EN 13739-1:2008 en  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 1: Requirements (EN 13739-1:2003+AC:2003)  
- zamijenjena s: HRN EN 13739-1:2012
- HRN EN 13739-2:2008 en  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 2: Test methods (EN 13739-2:2003)  
- zamijenjena s: HRN EN 13739-2:2012
- HRN EN ISO 22868:2010 en  
Šumarska mehanizacija – Kod za ispitivanje buke ručnih strojeva s motorima s unutrašnjim izgaranjem – Inženjerska metoda (2. stupanj preciznosti) (ISO 22868:2005; EN ISO 22868:2008)  
Forestry machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy) (ISO 22868:2005; EN ISO 22868:2008)  
- zamijenjena s: HRN EN ISO 22868:2012

## HZN/TO 25, Ljevarstvo

- HRN EN 1371-1:2001 en  
Ljevarstvo – Ispitivanje tekućim penetrantima – 1. dio: Odljevci lijevani u jednokratne kalupe, kokilni i niskotlačni lijev (EN 1371-1:1997)  
Founding – Liquid penetrant inspection – Part 1: Sand, gravity die and low pressure die castings (EN 1371-1:1997)  
- zamijenjena s: HRN EN 1371-1:2012
- HRN EN 1559-1:2001 en  
Ljevarstvo – Tehnički uvjeti isporuke – 1. dio: Općenito (EN 1559-1:1997)  
Founding – Technical conditions of delivery – Part 1: General (EN 1559-1:1997)  
- zamijenjena s: HRN EN 1559-1:2012
- HRN EN 1560:2004 en  
Ljevarstvo – Sustav označavanja željeznih ljevova – Simboli i brojevi materijala (EN 1560:1997)  
Founding – Designation system for cast iron – Material symbols and material numbers (EN 1560:1997)  
- zamijenjena s: HRN EN 1560:2012
- HRN EN 1564:2001 en  
Ljevarstvo – Izotermički poboljšani nodularni lijevovi (EN 1564:1997)  
Founding – Austempered ductile cast irons (EN 1564:1997)  
- zamijenjena s: HRN EN 1564:2012
- HRN EN 12513:2001 en  
Ljevarstvo – Željezni lijevovi otporni na abraziju (EN 12513:2000)  
Founding – Abrasion resistant cast irons (EN 12513:2000)  
- zamijenjena s: HRN EN 12513:2012
- HRN EN 12680-3:2003 en  
Ljevarstvo – Ultrazvučno ispitivanje – 3. dio: Odljevci od nodularnog lijeva (EN 12680-3:2003)  
Founding – Ultrasonic examination – Part 3: Spheroidal graphite cast iron castings (EN 12680-3:2003)  
- zamijenjena s: HRN EN 12680-3:2012
- HRN EN 13835:2003 en  
Ljevarstvo – Austenitni željezni lijevovi (EN 13835:2002)  
Founding – Austenitic cast irons (EN 13835:2002)  
- zamijenjena s: HRN EN 13835:2012
- HRN EN 13835:2003/A1:2008 en  
Ljevarstvo – Austenitni željezni lijevovi (EN 13835:2002/A1:2006)  
Founding – Austenitic cast irons (EN 13835:2002/A1:2006)  
- zamijenjena s: HRN EN 13835:2012

## HZN/TO 44, Zavarivanje i srodni postupci

- HRN EN 287-1:2004 en  
Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (EN 287-1:2004)  
Qualification test of welders – Fusion welding – Part 1: Steels (EN 287-1:2004)  
- zamijenjena s: HRN EN 287-1:2012
- HRN EN 287-1:2004/A2:2008 en  
Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (EN 287-1:2004/A2:2006)  
Qualification test of welders – Fusion welding – Part 1: Steels (EN 287-1:2004/A2:2006)  
- zamijenjena s: HRN EN 287-1:2012
- HRN EN 287-1:2004/AC:2007 en  
Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (EN 287-1:2004/AC:2004)  
Qualification test of welders – Fusion welding – Part 1: Steels (EN 287-1:2004/AC:2004)  
- zamijenjena s: HRN EN 287-1:2012
- HRN EN 730:2001 en  
Oprema za plinsko zavarivanje – Oprema koja se upotrebljava za plinsko zavarivanje, rezanje i srodne postupke, sigurnosni uređaji za gorive plinove i kisik ili stlačeni zrak – Opće specifikacije, zahtjevi i ispitivanja (EN 730:1995)  
Gas welding equipment – Equipment used in gas welding, cutting and allied processes, safety devices for fuel gases and oxygen or compressed air – General specifications, requirements and tests (EN 730:1995)  
- zamijenjena s: HRN EN 730-1:2008
- HRN EN 731:2001 en  
Oprema za plinsko zavarivanje – Ručni plamenici s usisavanjem zraka – Specifikacije i ispitivanja (EN 731:1995)  
Gas welding equipment – Air-aspirated hand blowpipes – Specifications and tests (EN 731:1995)  
- zamijenjena s: HRN EN ISO 9012:2012
- HRN EN 760:1999 en  
Dodatni i potrošni materijali – Praškovi za zavarivanje pod praškom – Razredba (EN 760:1996)  
Welding consumables – Fluxes for submerged arc welding – Classification (EN 760:1996)  
- zamijenjena s: HRN EN ISO 14174:2012
- HRN EN 875:2001 en  
Razorna ispitivanja zavara na metalnim materijalima – Ispitivanje udarnog rada loma – Položaj ispitnog uzorka, položaj zarezova i ispitivanje (EN 875:1995)  
Destructive tests on welds in metallic materials – Impact test – Test specimen location, notch orientation and examination (EN 875:1995)  
- zamijenjena s: HRN EN ISO 9016:2012
- HRN EN 895:1999 en  
Razorno ispitivanje zavara metalnih materijala – Poprečno vlačno ispitivanje (EN 895:1995)  
Destructive tests on welds in metallic materials – Transverse tensile test (EN 895:1995)  
- zamijenjena s: HRN EN ISO 4136:2012
- HRN EN 970:2000 en  
Nerazorno ispitivanje zavara nastalih taljenjem – Vizualno ispitivanje (EN 970:1997)  
Non-destructive examination of fusion welds – Visual examination (EN 970:1997)  
- zamijenjena s: HRN EN ISO 17637:2012

- HRN EN 1043-1:2002 en  
Razorna ispitivanja zavara metalnih materijala – Ispitivanje tvrdoće – 1. dio: Mjerenje tvrdoće elektrolučno zavarenih spojeva (EN 1043-1:1995)  
Destructive test on welds in metallic materials – Hardness testing – Part 1: Hardness test on arc welded joints (EN 1043-1:1995)  
- zamijenjena s: HRN EN ISO 9015-1:2012
- HRN EN 1043-2:2001 en  
Razorna ispitivanja zavara metalnih materijala – Ispitivanje tvrdoće – 2. dio: Mjerenje mikrotvrdoće zavarenih spojeva (EN 1043-2:1996)  
Destructive tests on welds in metallic materials – Hardness test – Part 2: Micro hardness testing on welded joints (EN 1043-2:1996)  
- zamijenjena s: HRN EN ISO 9015-2:2012
- HRN EN 1600:1999 en  
Dodatni i potrošni materijali – Obložene elektrode za REL zavarivanje nehrđajućih čelika i čelika otpornih na povišene temperature – Razredba (EN 1600:1997)  
Welding consumables – Covered electrodes for manual arc welding of stainless and heat resisting steels – Classification (EN 1600:1997)  
- zamijenjena s: HRN EN ISO 3581:2012
- HRN EN 1712:2000 en  
Nerazorno ispitivanje zavara – Ispitivanje zavarenih spojeva ultrazvukom – Razine prihvatljivosti (EN 1712:1997)  
Non-destructive examination of welds – Ultrasonic examination of welded joints – Acceptance levels (EN 1712:1997)  
- zamijenjena s: HRN EN ISO 11666:2012
- HRN EN 1712:2000/A1:2003 en  
Nerazorno ispitivanje zavara – Ispitivanje zavarenih spojeva ultrazvukom – Razine prihvatljivosti (EN 1712:1997/A1:2002)  
Non destructive examination of welds – Ultrasonic examination of welded joints – Acceptance levels (EN 1712:1997/A1:2002)  
- zamijenjena s: HRN EN ISO 11666:2012
- HRN EN 1712:2000/A2:2008 en  
Nerazorno ispitivanje zavara – Ispitivanje zavarenih spojeva ultrazvukom – Razine prihvatljivosti (EN 1712:1997/A2:2003)  
Non-destructive testing of welds – Ultrasonic testing of welded joints – Acceptance levels (EN 1712:1997/A2:2003)  
- zamijenjena s: HRN EN ISO 11666:2012
- HRN EN ISO 3580:2008 en  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje čelika otpornih na puzanje – Razredba (ISO 3580:2004; EN ISO 3580:2008)  
Welding consumables – Covered electrodes for manual metal arc welding of creep-resisting steels – Classification (ISO 3580:2004; EN ISO 3580:2008)  
- zamijenjena s: HRN EN ISO 3580:2012
- HRN EN ISO 4063:2010 en,fr,de  
Zavarivanje i srodni postupci – Nomenklatura postupaka i referentni brojevi (ISO 4063:2009; EN ISO 4063:2009)  
Welding and allied processes – Nomenclature of processes and reference numbers (ISO 4063:2009; EN ISO 4063:2009)  
- zamijenjena s: HRN EN ISO 4063:2012
- HRN EN ISO 6947:1999 en  
Zavari – Radni položaji – Definicija kutova nagiba i rotacije (ISO 6947:1990; EN ISO 6947:1997)  
Welds – Working positions – Definitions of angles of slope and rotation (ISO 6947:1990; EN ISO 6947:1997)  
- zamijenjena s: HRN EN ISO 6947:2012
- HRN EN ISO 10882-1:2002 en  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Uzorkovanje letećih čestica i plinova u području disanja radnika – 1. dio: Uzorkovanje letećih čestica (ISO 10882-1:2001; EN ISO 10882-1:2001)  
Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles (ISO 10882-1:2001; EN ISO 10882-1:2001)  
- zamijenjena s: HRN EN ISO 10882-1:2012
- HRN EN ISO 14341:2008 en  
Dodatni i potrošni materijali – Žičane elektrode i depoziti za elektrolučno zavarivanje metalnom taljivom elektrodom u zaštiti plina za nelegirane i sitnozrnate čelike – Razredba (ISO 14341:2002; EN ISO 14341:2008)  
Welding consumables – Wire electrodes and deposits for gas shielded metal arc welding of non alloy and fine grain steels – Classification (ISO 14341:2002; EN ISO 14341:2008)  
- zamijenjena s: HRN EN ISO 14341:2012
- HRS CEN ISO/TS 15011-5:2008 en  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Laboratorijska metoda za uzorkovanje dima i plinova – 5. dio: Identifikacija proizvoda toplinske degradacije pri zavarivanju ili rezanju kroz prevlake koje su potpuno ili djelomično od organskih materijala (ISO/TS 15011-5:2006; CEN ISO/TS 15011-5:2006)  
Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials (ISO/TS 15011-5:2006; CEN ISO/TS 15011-5:2006)  
- zamijenjena s: HRN EN ISO 15011-5:2012
- HRN EN ISO 15792-3:2008 en  
Dodatni i potrošni materijali za zavarivanje – Postupci ispitivanja – 3. dio: Razredbeno ispitivanje prikladnosti dodatnog materijala s obzirom na položaj zavarivanja i dubinu uvara kod kutnih zavara (ISO 15792-3:2000 +Cor 1:2006; EN ISO 15792-3:2008)  
Welding consumables – Test methods – Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld (ISO 15792-3:2000+Cor 1:2006; EN ISO 15792-3:2008)  
- zamijenjena s: HRN EN ISO 15792-3:2012
- HRN EN ISO 26304:2010 en  
Dodatni i potrošni materijali za zavarivanje – Pune žice, žice punjene praškom i kombinacije žica-prašak za elektrolučno zavarivanje pod praškom čelika povišene čvrstoće – Razredba (ISO 26304:2008+Cor 1:2009; EN ISO 26304:2009)  
Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels – Classification (ISO 26304:2008+Cor 1:2009; EN ISO 26304:2009)  
- zamijenjena s: HRN EN ISO 26304:2012

## HZN/TO 54, Eterična ulja

- HRN ISO 3033:2005 en  
Ulje klasaste metvice (spearmint) (*Mentha spicata* Linnaeus) (ISO 3033:1988)  
Oil of spearmint (*Mentha spicata* Linnaeus) (ISO 3033:1988)  
- zamijenjena s: HRN ISO 3033-1:2007

HRN ISO 3761:2005 en  
Ulje ružinog drva, brazilski tip [Aniba rosaeodora  
Ducke var. amazonica Ducke ili Aniba parviflora  
(Meissner) Mez] (ISO 3761:1997)  
Oil of rosewood, Brazilian type [Aniba rosaeodora  
Ducke var. amazonica Ducke or Aniba parviflora  
(Meissner) Mez] (ISO 3761:1997)  
- zamijenjena s: HRN ISO 3761:2007

### **HZN/TO 74, Cement i vapno**

HRN EN 197-1:2005 hr  
Cement – 1. dio: Sastav, specifikacije i kriteriji  
sukladnosti cementa opće namjene (uključuje  
amandman A1:2004) (EN 197-1:2000+A1:2004)  
Cement – Part 1: Composition, specifications and  
conformity criteria for common cements (includes  
amendment A1:2004) (EN 197-1:2000+A1:2004)  
- zamijenjena s: HRN EN 197-1:2012

HRN EN 197-1:2005/A3:2008 hr  
Cement – 1. dio: Sastav, specifikacije i kriteriji  
sukladnosti cementa opće namjene  
(EN 197-1:2000/A3:2007)  
Cement – Part 1: Composition, specifications and  
conformity criteria for common cements  
(EN 197-1:2000/A3:2007)  
- zamijenjena s: HRN EN 197-1:2012

HRN EN 459-3:2004 en  
Građevno vapno – 3. dio: Vrednovanje sukladnosti  
(EN 459-3:2001+AC:2002)  
Building lime – Part 3: Conformity evaluation  
(EN 459-3:2001+AC:2002)  
- zamijenjena s: HRN EN 459-3:2012

### **HZN/TO 86, Uređaji za hlađenje, klimatizaciju i dizalice topline**

HRN EN 255-3:2004 en  
Klimatizacijski uređaji, uređaji za hlađenje kapljevina  
i dizalice topline s kompresorima na električni pogon  
– Režim grijanja – 3. dio: Ispitivanje i zahtjevi za  
označavanje uređaja za pripremu sanitarne tople vode  
(EN 255-3:1997)  
Air conditioners, liquid chilling packages and heat  
pumps with electrically driven compressors – Heating  
mode – Part 3: Testing and requirements for marking  
for sanitary hot water units (EN 255-3:1997)  
- zamijenjena s: HRN EN 16147:2012

HRN EN 255-3:2004/Ispr.1:2008 en  
Klimatizacijski uređaji, uređaji za hlađenje kapljevina  
i dizalice topline s kompresorima na električni pogon  
– Režim grijanja – 3. dio: Ispitivanje i zahtjevi za  
označavanje uređaja za pripremu sanitarne tople vode  
(EN 255-3:1997/AC:1997)  
Air conditioners, liquid chilling packages and heat  
pumps with electrically driven compressors – Heating  
mode – Part 3: Testing and requirements for marking  
for sanitary hot water units (EN 255-3:1997/AC:1997)  
- zamijenjena s: HRN EN 16147:2012

### **HZN/TO 89, Furniri i drvene ploče**

HRN ENV 14272:2002 en  
Uslojeno drvo – Metode proračuna za pojedina  
mehanička svojstva (ENV 14272:2002)  
Plywood – Calculation method for some mechanical  
properties (ENV 14272:2002)  
- zamijenjena s: HRN EN 14272:2012

### **HZN/TO 91, Površinski aktivne tvari**

HRN EN 12829:2001 en  
Površinski aktivne tvari – Priprema vode poznate  
kalcijeve tvrdoće (ISO 2174:1990 preinačena;  
EN 12829:1997)

Surface active agents – Preparation of water with  
known calcium hardness (ISO 2174:1990 modified;  
EN 12829:1997)  
- zamijenjena s: HRN EN 12829:2012

### **HZN/TO 116, Uređaji i oprema za izmjenu topline**

HRN EN 1264-1:2008 en  
Podno grijanje – Sustavi i dijelovi – 1. dio: Definicije  
i simboli (EN 1264-1:1997)  
Floor heating – Systems and components – Part 1:  
Definitions and symbols (EN 1264-1:1997)  
- zamijenjena s: HRN EN 1264-1:2012

### **HZN/TO 120, Koža i obuća**

HRN EN ISO 2419:2008 en  
Koža – Fizikalna i mehanička ispitivanja – Priprema  
uzorka i kondicioniranje (ISO 2419:2006;  
EN ISO 2419:2006)  
Leather – Physical and mechanical tests – Sample  
preparation and conditioning (ISO 2419:2006;  
EN ISO 2419:2006)  
- zamijenjena s: HRN EN ISO 2419:2012

HRN EN ISO 3376:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
prekidne čvrstoće i postotka istezanja (ISO 3376:2002;  
EN ISO 3376:2002)  
Leather – Physical and mechanical tests –  
Determination of tensile strength and percentage  
extension (ISO 3376:2002; EN ISO 3376:2002)  
- zamijenjena s: HRN EN ISO 3376:2012

HRN EN ISO 3377-1:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
čvrstoće daljnjeg kidanja – 1. dio: Jednostrani zarez  
(ISO 3377-1:2002; EN ISO 3377-1:2002)  
Leather – Physical and mechanical tests –  
Determination of tear load – Part 1: Single edge tear  
(ISO 3377-1:2002; EN ISO 3377-1:2002)  
- zamijenjena s: HRN EN ISO 3377-1:2012

HRN EN ISO 5402:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
otpornosti na savijanje metodom fleksometra  
(ISO 5402:2002; EN ISO 5402:2002)  
Leather – Physical and mechanical tests –  
Determination of flex resistance by flexometer method  
(ISO 5402:2002; EN ISO 5402:2002)  
- zamijenjena s: HRN EN ISO 5402-1:2012

HRN EN ISO 5403:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
otpornosti savitljivih koža na vodu (ISO 5403: 2002;  
EN ISO 5403:2002)  
Leather – Physical and mechanical tests –  
Determination of water resistance of flexible leather  
(ISO 5403:2002; EN ISO 5403:2002)  
- zamijenjena s: HRN EN ISO 5403-1:2012

HRN EN ISO 5404:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
otpornosti teških koža na vodu (ISO 5404: 2002;  
EN ISO 5404:2002)  
Leather – Physical and mechanical tests –  
Determination of water resistance of heavy leathers  
(ISO 5404: 2002; EN ISO 5404:2002)  
- zamijenjena s: HRN EN ISO 5404:2012

HRN EN ISO 17186:2008 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje  
debljine površine nasloja / površinskih prevlaka  
(ISO 17186:2002; EN ISO 17186:2002)  
Leather – Physical and mechanical tests –  
Determination of surface coating thickness  
(ISO 17186:2002; EN ISO 17186:2002)  
- zamijenjena s: HRN EN ISO 17186:2012

HRN EN ISO 17235:2004 en  
Koža – Fizikalna i mehanička ispitivanja – Određivanje mekoće (ISO 17235:2002; EN ISO 17235:2002)  
Leather – Physical and mechanical tests – Determination of softness (ISO 17235:2002; EN ISO 17235:2002)  
- zamijenjena s: HRN EN ISO 17235:2012

### **HZN/TO 121, Anestetička i respiracijska oprema**

HRN EN ISO 5360:2010 en  
Anestetički isparivači – Sustavi punjenja specifični za plin (ISO 5360:2006; EN ISO 5360:2009)  
Anaesthetic vaporizers – Agent-specific filling systems (ISO 5360:2006; EN ISO 5360:2009)  
- zamijenjena s: HRN EN ISO 5360:2012

### **HZN/TO 134, Gnojiva i poboljšivači tla**

HRN EN 13041:2008 en  
Poboljšivači tla i supstrati – Određivanje fizikalnih svojstava – Volumne gustoće, kapaciteta za zrak, kapaciteta za vodu, vrijednosti skupljanja i ukupnog volumena pora (EN 13041:1999+A1:2006)  
Soil improvers and growing media – Determination of physical properties – Dry bulk density, air volume, water volume, shrinkage value and total pore space (EN 13041:1999+A1:2006)  
- zamijenjena s: HRN EN 13041:2012

HRS CEN/TS 15958:2010 en  
Gnojiva – Ekstrakcija vodotopivog fosfora (CEN/TS 15958:2009)  
Fertilizers – Extraction of water soluble phosphorus (CEN/TS 15958:2009)  
- zamijenjena s: HRN EN 15958:2012

HRS CEN/TS 15959:2010 en  
Gnojiva – Određivanje ekstrahiranog fosfora (CEN/TS 15959:2009)  
Fertilizers – Determination of extracted phosphorus (CEN/TS 15959:2009)  
- zamijenjena s: HRN EN 15959:2012

HRS CEN/TS 15960:2010 en  
Gnojiva – Ekstrakcija ukupnog kalcija, ukupnog magnezija, ukupnog natrija i ukupnog sumpora u obliku sulfata (CEN/TS 15960:2009)  
Fertilizers – Extraction of total calcium, total magnesium, total sodium and total sulfur in the forms of sulfates (CEN/TS 15960:2009)  
- zamijenjena s: HRN EN 15960:2012

HRS CEN/TS 15961:2010 en  
Gnojiva – Ekstrakcija vodotopivog kalcija, magnezija, natrija i sumpora u obliku sulfata (CEN/TS 15961:2009)  
Fertilizers – Extraction of water soluble calcium, magnesium, sodium and sulfur in the form of sulfates (CEN/TS 15961:2009)  
- zamijenjena s: HRN EN 15961:2012

HRS CEN/TS 16032:2010 en  
Gnojiva – Ekstrakcija i određivanje elementarnog sumpora (CEN/TS 16032:2010)  
Fertilizers – Extraction and determination of elemental sulfur (CEN/TS 16032:2010)  
- zamijenjena s: HRN EN 16032:2012

### **HZN/TO 135, Nerazorna ispitivanja**

HRN EN 584-1:2007 en  
Nerazorno ispitivanje – Film za industrijsku radiografiju – 1. dio: Razredba film-sustava za industrijsku radiografiju (EN 584-1:2006)  
Non-destructive testing – Industrial radiographic film – Part 1: Classification of film systems for industrial radiography (EN 584-1:2006)  
- zamijenjena s: HRN EN ISO 11699-1:2012

HRN EN 584-2:1997 en  
Nerazorno ispitivanje – Film za industrijsku radiografiju – 2. dio: Provjera kemijske obrade filma pomoću referentnih vrijednosti (EN 584-2:1996)  
Non-destructive testing – Industrial radiographic film – Part 2: Control of film processing by means of reference values (EN 584-2:1996)  
- zamijenjena s: HRN EN ISO 11699-2:2012

HRN EN 10246-1:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 1. dio: Automatsko elektromagnetsko ispitivanje bešavnih i zavarenih (osim zavarenih EPP postupkom) feromagnetskih čeličnih cijevi radi provjere hidrauličke nepropusnosti (EN 10246-1:1996)  
Non-destructive testing of steel tubes – Part 1: Automatic electromagnetic testing of seamless and welded (except submerged arc welded) ferromagnetic steel tubes for verification of hydraulic leak-tightness (EN 10246-1:1996)  
- zamijenjena s: HRN EN ISO 10893-1:2012

HRN EN 10246-2:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 2. dio: Automatsko ispitivanje bešavnih i zavarenih (osim zavarenih EPP postupkom) austenitnih i austenitno-ferritnih čeličnih cijevi vrtložnim strujama radi provjere hidrauličke nepropusnosti (EN 10246-2:2000)  
Non-destructive testing of steel tubes – Part 2: Automatic eddy current testing of seamless and welded (except submerged arc welded) austenitic and austenitic-ferritic steel tubes for verification of hydraulic leak-tightness (EN 10246-2:2000)  
- zamijenjena s: HRN EN ISO 10893-1:2012

HRN EN 10246-3:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 3. dio: Automatsko ispitivanje bešavnih i zavarenih (osim zavarenih EPP postupkom) čeličnih cijevi vrtložnim strujama radi otkrivanja nepravilnosti (EN 10246-3:1999)  
Non-destructive testing of steel tubes – Part 3: Automatic eddy current testing of seamless and welded (except submerged arc welded) steel tubes for the detection of imperfections (EN 10246-3:1999)  
- zamijenjena s: HRN EN ISO 10893-2:2012

HRN EN 10246-4:2003 en  
Nerazorno ispitivanje čeličnih cijevi – 4. dio: Automatsko ispitivanje mjerenjem magnetskog toka bešavnih feromagnetskih čeličnih cijevi po cijelome opsegu radi otkrivanja poprečnih nepravilnosti (EN 10246-4:1999)  
Non-destructive testing of steel tubes – Part 4: Automatic full peripheral magnetic transducer/flux leakage testing of seamless ferromagnetic steel tubes for the detection of transverse imperfections (EN 10246-4:1999)  
- zamijenjena s: HRN EN ISO 10893-3:2012

HRN EN 10246-5:2003 en  
Nerazorno ispitivanje čeličnih cijevi – 5. dio: Automatsko ispitivanje mjerenjem magnetskog toka bešavnih i zavarenih (osim zavarenih EPP postupkom) feromagnetskih čeličnih cijevi po cijelome opsegu radi otkrivanja uzdužnih nepravilnosti (EN 10246-5:1999)  
Non-destructive testing of steel tubes – Part 5: Automatic full peripheral magnetic transducer/flux leakage testing of seamless and welded (except submerged arc welded) ferromagnetic steel tubes for the detection of longitudinal imperfections (EN 10246-5:1999)  
- zamijenjena s: HRN EN ISO 10893-3:2012



- HRN EN 10246-6:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 6. dio: Automatsko ultrazvučno ispitivanje bešavnih čeličnih cijevi po cijelome opsegu radi otkrivanja poprečnih nepravilnosti (EN 10246-6:1999)  
Non-destructive testing of steel tubes – Part 6: Automatic full peripheral ultrasonic testing of seamless steel tubes for the detection of transverse imperfections (EN 10246-6:1999)  
- zamijenjena s: HRN EN ISO 10893-10:2012
- HRN EN 10246-7:2007 en  
Nerazorno ispitivanje čeličnih cijevi – 7. dio: Automatsko ultrazvučno ispitivanje bešavnih i zavarenih cijevi po cijelom opsegu (osim elektro-lučno zavarenih pod praškom) radi otkrivanja podužnih nepravilnosti (EN 10246-7:2005)  
Non-destructive testing of steel tubes – Part 7: Automatic full peripheral ultrasonic testing of seamless and welded (except submerged arc welded) tubes for the detection of longitudinal imperfections (EN 10246-7:2005)  
- zamijenjena s: HRN EN ISO 10893-10:2012
- HRN EN 10246-8:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 8. dio: Automatsko ultrazvučno ispitivanje zavara elektro-zavarenih čeličnih cijevi radi otkrivanja uzdužnih nepravilnosti (EN 10246-8:1999)  
Non-destructive testing of steel tubes – Part 8: Automatic ultrasonic testing of the weld seam of electric welded steel tubes for the detection of longitudinal imperfections (EN 10246-8:1999)  
- zamijenjena s: HRN EN ISO 10893-11:2012
- HRN EN 10246-9:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 9. dio: Automatsko ultrazvučno ispitivanje zavara čeličnih cijevi zavarenih EPP postupkom radi otkrivanja uzdužnih i/ili poprečnih nepravilnosti (EN 10246-9:2000)  
Non-destructive testing of steel tubes – Part 9: Automatic ultrasonic testing of the weld seam of submerged arc welded steel tubes for the detection of longitudinal and/or transverse imperfections (EN 10246-9:2000)  
- zamijenjena s: HRN EN ISO 10893-11:2012
- HRN EN 10246-10:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 10. dio: Radiografsko ispitivanje zavara automatski elektro-lučno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (EN 10246-10:2000)  
Non-destructive testing of steel tubes – Part 10: Radiographic testing of the weld seam of automatic fusion arc welded steel tubes for the detection of imperfections (EN 10246-10:2000)  
- zamijenjena s: HRN EN ISO 10893-6:2012
- HRN EN 10246-11:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 11. dio: Penetrantsko ispitivanje bešavnih i zavarenih čeličnih cijevi radi otkrivanja površinskih nepravilnosti (EN 10246-11:2000)  
Non-destructive testing of steel tubes – Part 11: Liquid penetrant testing of seamless and welded steel tubes for the detection of surface imperfections (EN 10246-11:2000)  
- zamijenjena s: HRN EN ISO 10893-4:2012
- HRN EN 10246-12:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 12. dio: Ispitivanje bešavnih i zavarenih feromagnetskih čeličnih cijevi magnetskim česticama radi otkrivanja površinskih nepravilnosti (EN 10246-12:2000)  
Non-destructive testing of steel tubes – Part 12: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections (EN 10246-12:2000)  
- zamijenjena s: HRN EN ISO 10893-5:2012
- HRN EN 10246-13:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 13. dio: Automatsko ultrazvučno ispitivanje debljine bešavnih i zavarenih (osim zavarenih EPP postupkom) čeličnih cijevi po cijelome opsegu (EN 10246-13:2000)  
Non-destructive testing of steel tubes – Part 13: Automatic full peripheral ultrasonic thickness testing for seamless and welded (except submerged arc welded) steel tubes (EN 10246-13:2000)  
- zamijenjena s: HRN EN ISO 10893-12:2012
- HRN EN 10246-14:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 14. dio: Automatsko ultrazvučno ispitivanje bešavnih i zavarenih (osim zavarenih EPP postupkom) čeličnih cijevi radi otkrivanja laminarnih nepravilnosti (EN 10246-14:1999)  
Non-destructive testing of steel tubes – Part 14: Automatic ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of laminar imperfections (EN 10246-14:1999)  
- zamijenjena s: HRN EN ISO 10893-8:2012
- HRN EN 10246-15:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 15. dio: Automatsko ultrazvučno ispitivanje traka/limova koji se upotrebljavaju za proizvodnju zavarenih čeličnih cijevi radi otkrivanja laminarnih nepravilnosti (EN 10246-15:2000)  
Non-destructive testing of steel tubes – Part 15: Automatic ultrasonic testing of strip/plate used in the manufacture of welded steel tubes for the detection of laminar imperfections (EN 10246-15:2000)  
- zamijenjena s: HRN EN ISO 10893-9:2012
- HRN EN 10246-16:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 16. dio: Automatsko ultrazvučno ispitivanje područja uz zavar zavarenih čeličnih cijevi radi otkrivanja laminarnih nepravilnosti (EN 10246-16:2000)  
Non-destructive testing of steel tubes – Part 16: Automatic ultrasonic testing of the area adjacent to the weld seam of welded steel tubes for the detection of laminar imperfections (EN 10246-16:2000)  
- zamijenjena s: HRN EN ISO 10893-8:2012
- HRN EN 10246-17:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 17. dio: Ultrazvučno ispitivanje krajeva bešavnih i zavarenih čeličnih cijevi radi otkrivanja laminarnih nepravilnosti (EN 10246-17:2000)  
Non-destructive testing of steel tubes – Part 17: Ultrasonic testing of tube ends of seamless and welded steel tubes for the detection of laminar imperfections (EN 10246-17:2000)  
- zamijenjena s: HRN EN ISO 10893-8:2012
- HRN EN 10246-18:2002 en  
Nerazorno ispitivanje čeličnih cijevi – 18. dio: Ispitivanje krajeva bešavnih i zavarenih feromagnetskih čeličnih cijevi magnetskim česticama radi otkrivanja laminarnih nepravilnosti (EN 10246-18:2000)  
Non-destructive testing of steel tubes – Part 18: Magnetic particle inspection of tube ends of seamless and welded ferromagnetic steel tubes for the detection of laminar imperfections (EN 10246-18:2000)  
- zamijenjena s: HRN EN ISO 10893-5:2012
- HRN EN 13554:2002 en  
Nerazorno ispitivanje – Akustička emisija – Opća načela (EN 13554:2002)  
Non-destructive testing – Acoustic emission – General principles (EN 13554:2002)  
- zamijenjena s: HRN EN 13554:2012
- HRN EN 13554/A1:2007 en  
Nerazorno ispitivanje – Akustička emisija – Opća načela (EN 13554:2002/A1:2003)  
Non-destructive testing – Acoustic emission – General principles (EN 13554:2002/A1:2003)  
- zamijenjena s: HRN EN 13554:2012

HRN EN 14127:2008 en  
Nerazorno ispitivanje – Mjerenje debljine ultrazvukom (EN 14127:2004)  
Non-destructive testing – Ultrasonic thickness measurement (EN 14127:2004)  
- zamijenjena s: HRN EN 14127:2012

### **HZN/TO 136, Namještaj**

HRN EN 1729-2:2008 en  
Namještaj – Stolice i stolovi za obrazovne ustanove – 2. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1729-2:2006)  
Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods (EN 1729-2:2006)  
- zamijenjena s: HRN EN 1729-2:2012

### **HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

HRN EN 12201-4:2002 en  
Plastični cijevni sustavi za opskrbu vodom – Polietilen (PE) – 4. dio: Ventili i pomoćna oprema (EN 12201-4:2001)  
Plastics piping system for water supply – Polyethylene (PE) – Part 4: Valves and ancillary equipment (EN 12201-4:2001)  
- zamijenjena s: HRN EN 12201-4:2012

### **HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

HRN EN ISO 7887:2001 en  
Kakvoća vode – Ispitivanje i određivanje boje (ISO 7887:1994; EN ISO 7887:1994)  
Water quality – Examination and determination of colour (ISO 7887:1994; EN ISO 7887:1994)  
- zamijenjena s: HRN EN ISO 7887:2012

HRN ISO 10523:2009 en  
Kakvoća vode – Određivanje pH vrijednosti (ISO 10523:2008)  
Water quality – Determination of pH (ISO 10523:2008)  
- zamijenjena s: HRN EN ISO 10523:2012

### **HZN/TO 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja**

HRN EN ISO 8692:2005 en  
Kakvoća vode – Ispitivanje inhibicije rasta slatkovodnih alga pomoću jednostaničnih zelenih alga (ISO 8692:2004; EN ISO 8692:2004)  
Water quality – Fresh water algal growth inhibition test with unicellular green algae (ISO 8692:2004; EN ISO 8692:2004)  
- zamijenjena s: HRN EN ISO 8692:2012

### **HZN/TO 163, Toplinska izolacija**

HRN EN 13172:2008 en  
Toplinsko-izolacijski proizvodi – Vrednovanje sukladnosti (EN 13172:2008)  
Thermal insulating products – Evaluation of conformity (EN 13172:2008)  
- zamijenjena s: HRN EN 13172:2012

### **HZN/TO 167, Metalne konstrukcije**

HRN EN 1090-1:2009 en  
Izvedba čeličnih i aluminijskih konstrukcija – 1. dio: Zahtjevi za ocjenjivanje sukladnosti konstrukcijskih komponenata (EN 1090-1:2009)  
Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components (EN 1090-1:2009)  
- zamijenjena s: HRN EN 1090-1:2012

HRN EN 1090-1:2009/Ispr.1:2011 en  
Izvedba čeličnih i aluminijskih konstrukcija – 1. dio: Zahtjevi za ocjenjivanje sukladnosti konstrukcijskih komponenata (EN 1090-1:2009/AC:2010)  
Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components (EN 1090-1:2009/AC:2010)  
- zamijenjena s: HRN EN 1090-1:2012

### **HZN/TO 190, Kvaliteta tla**

HRN ISO 11260:2004 en  
Kakvoća tla – Određivanje stvarnog kapaciteta zamjene kationa i stupnja zasićenosti bazama s otopinom barijeva klorida (ISO 11260:1994+Cor 1:1996)  
Soil quality – Determination of effective cation exchange capacity and base saturation level using barium chloride solution (ISO 11260:1994+Cor 1:1996)  
- zamijenjena s: HRN EN ISO 11260:2012

HRN ISO 14240-1:2004 en  
Kakvoća tla – Određivanje mikrobne biomase u tlu – 1. dio: Supstrat-inducirana respiracijska metoda (ISO 14240-1:1997)  
Soil quality – Determination of soil microbial biomass – Part 1: Substrate-induced respiration method (ISO 14240-1:1997)  
- zamijenjena s: HRN EN ISO 14240-1:2012

HRN ISO 14240-2:2004 en  
Kakvoća tla – Određivanje mikrobne biomase tla – 2. dio: Fumigacijsko-ekstrakcijska metoda (ISO 14240-2:1997)  
Soil quality – Determination of soil microbial biomass – Part 2: Fumigation-extraction method (ISO 14240-2:1997)  
- zamijenjena s: HRN EN ISO 14240-2:2012

HRN ISO 14254:2004 en  
Kakvoća tla – Određivanje zamjenjive kiselosti u ekstraktu barijevog klorida (ISO 14254:2001)  
Soil quality – Determination of exchangeable acidity in barium chloride extracts (ISO 14254:2001)  
- zamijenjena s: HRN EN ISO 14254:2012

HRN ISO 16072:2011 en  
Kvaliteta tla – Laboratorijske metode za određivanje mikrobiološkog disanja tla (ISO 16072:2002)  
Soil quality – Laboratory methods for determination of microbial soil respiration (ISO 16072:2002)  
- zamijenjena s: HRN EN ISO 16072:2012

HRN ISO 16133:2009 en  
Kakvoća tla – Upute o uspostavljanju i provođenju programa nadzora (ISO 16133:2004)  
Soil quality – Guidance on the establishment and maintenance of monitoring programmes (ISO 16133:2004)  
- zamijenjena s: HRN EN ISO 16133:2012

HRN ISO 16703:2009 en  
Kakvoća tla – Određivanje sadržaja ugljikovodika u rasponu od C10 do C40 plinskom kromatografijom (ISO 16703:2004)  
Soil quality – Determination of content of hydrocarbon in the range C10 to C40 by gas chromatography (ISO 16703:2004)  
- zamijenjena s: HRN EN ISO 16703:2012

HRN ISO 22030:2011 en  
Kvaliteta tla – Biološke metode – Kronična toksičnost u viših biljaka (ISO 22030:2005)  
Soil quality – Biological methods – Chronic toxicity in higher plants (ISO 22030:2005)  
- zamijenjena s: HRN EN ISO 22030:2012

HRN ISO 23470:2009 en  
Kakvoća tla – Određivanje efektivnog kationskog izmjenjivačkog kapaciteta (KIK) i izmjenjivih kationa primjenom heksaminkobalt triklorid otopine (ISO 23470:2007)  
Soil quality – Determination of effective cation exchange capacity (CEC) and exchangeable cations using a hexamminecobalt trichloride solution (ISO 23470:2007)  
- zamijenjena s: HRN EN ISO 23470:2012

HRN ISO 25177:2011 en  
Kvaliteta tla – Terenski opis tla (ISO 25177:2008)  
Soil quality – Field soil description (ISO 25177:2008)  
- zamijenjena s: HRN EN ISO 25177:2012

### **HZN/TO 196, Prirodni kamen**

HRN EN 12059:2008 en  
Proizvodi od prirodnog kamena – Dimenzionirani obrađeni kamen – Zahtjevi (EN 12059:2008)  
Natural stone products – Dimensional stone work – Requirements (EN 12059:2008)  
- zamijenjena s: HRN EN 12059:2012

### **HZN/TO 207, Upravljanje okolišem**

HRN ISO 14064-1:2008 en  
Staklenički plinovi – 1. dio: Specifikacija sa smjernicama na razini organizacije za kvantificiranje i izvješćivanje o emisijama i uklanjanju stakleničkih plinova (ISO 14064-1:2006)  
Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006)  
- zamijenjena s: HRN EN ISO 14064-1:2012

HRN ISO 14064-2:2008 en  
Staklenički plinovi – 2. dio: Specifikacija sa smjernicama na razini projekta za kvantificiranje, praćenje i izvješćivanje o smanjivanju emisija ili povećanju uklanjanja stakleničkih plinova (ISO 14064-2:2006)  
Greenhouse gases – Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements (ISO 14064-2:2006)  
- zamijenjena s: HRN EN ISO 14064-2:2012

HRN ISO 14064-3:2008 en  
Staklenički plinovi – 3. dio: Specifikacija sa smjernicama za validaciju i verifikaciju tvrdnji o stakleničkim plinovima (ISO 14064-3:2006)  
Greenhouse gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (ISO 14064-3:2006)  
- zamijenjena s: HRN EN ISO 14064-3:2012

### **HZN/TO 218, Drvo**

HRN EN 152-1:2008 en  
Test methods for wood preservatives – Laboratory method for determining the preventive effectiveness of a preservative treatment against blue stain in service – Part 1: Brushing procedure (EN 152-1:1988)  
- zamijenjena s: HRN EN 152:2012

HRN EN 152-2:2008 en  
Test methods for wood preservatives – Laboratory method for determining the protective effectiveness of a preservative treatment against blue stain in service – Part 2: Application by methods other than brushing (EN 152-2:1988+AC1:1989)  
- zamijenjena s: HRN EN 152:2012

### **HZN/TO 221, Geosintetici**

HRN EN 12226:2002 en  
Geotekstil i proizvodi srodni s geotekstilom – Opći postupci za vrednovanje nakon ispitivanja postojanosti (EN 12226:2000)  
Geotextiles and geotextile-related products – General tests for evaluation following durability testing (EN 12226:2000)  
- zamijenjena s: HRN EN 12226:2012

### **HZN/TO 502, Plinski uređaji**

HRN EN 1196:2001 en  
Kućanski i nekućanski plinski generatori toplog zraka – Dodatni zahtjevi za kondenzacijske generatore toplog zraka (EN 1196:1998)  
Domestic and non-domestic gas-fired air heaters – Supplementary requirements for condensing air heaters (EN 1196:1998)  
- zamijenjena s: HRN EN 1196:2012

HRN EN 1458-1:2004 en  
Kućanske plinske, direktno grijane, bubnjaste sušilice rublja koje nisu priključene na stalni sustav odvođenja dimnih plinova, s nazivnim toplinskim opterećenjem ne većim od 6 kW – 1. dio: Sigurnost (EN 1458-1:1999)  
Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW – Part 1: Safety (EN 1458-1:1999)  
- zamijenjena s: HRN EN 1458-1:2012

HRN EN 1458-2:2004 en  
Kućanske plinske, direktno grijane, bubnjaste sušilice rublja koje nisu priključene na stalni sustav odvođenja dimnih plinova, s nazivnim toplinskim opterećenjem ne većim od 6 kW – 2. dio: Racionalno korištenje energije (EN 1458-2:1999)  
Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6kW – Part 2: Rational use of energy (EN 1458-2:1999)  
- zamijenjena s: HRN EN 1458-2:2012

HRN EN 13611:2008 en  
Sigurnosni i regulirajući uređaji za plinske plamenike i plinske uređaje – Opći zahtjevi (EN 13611:2007)  
Safety and control devices for gas burners and gas burning appliances – General requirements (EN 13611:2007)  
- zamijenjena s: HRN EN 13611:2012

### **HZN/TO 503, Metalni materijali**

HRN EN 1172:2002 en  
Bakar i bakrene legure – Limovi i trake za primjenu u građevinarstvu (EN 1172:1996)  
Copper and copper alloys – Sheet and strip for building purposes (EN 1172:1996)  
- zamijenjena s: HRN EN 1172:2012

HRN EN 10218-1:2003 en  
Čelična žica i žičani proizvodi – Općenito – 1. dio: Ispitne metode (EN 10218-1:1994)  
Steel wire and wire products – General – Part 1: Test methods (EN 10218-1:1994)  
- zamijenjena s: HRN EN 10218-1:2012

HRN EN 10218-2:2003 en  
Čelična žica i žičani proizvodi – Općenito – 2. dio: Žica, mjere i dopuštena odstupanja (EN 10218-2:1996)  
Steel wire and wire products – General – Part 2: Wire dimensions and tolerances (EN 10218-2:1996)  
- zamijenjena s: HRN EN 10218-2:2012

HRN EN 10264-1:2002 en  
Čelična žica i žičani proizvodi – Čelična žica za užad – 1. dio: Opći zahtjevi (EN 10264-1:2002)  
Steel wire and wire products – Steel wire for ropes – Part 1: General requirements (EN 10264-1:2002)  
- zamijenjena s: HRN EN 10264-1:2012

- HRN EN 10264-2:2002 en  
Čelična žica i žičani proizvodi – Čelična žica za užad – 2. dio: Hladno vučena nelegirana čelična žica za užad opće namjene (EN 10264-2:2002)  
Steel wire and wire products – Steel wire for ropes – Part 2: Cold drawn non alloyed steel wire for ropes for general applications (EN 10264-2:2002)  
- zamijenjena s: HRN EN 10264-2:2012
- HRN EN 10264-3:2003 en  
Čelična žica i žičani proizvodi – Čelična žica za užad – 3. dio: Hladno vučena i hladno oblikovana žica od nelegiranog čelika za visoka opterećenja (EN 10264-3:2002)  
Steel wire and wire products – Steel wire for ropes – Part 3: Cold drawn and cold shaped non alloyed steel wire for heavy duty applications (EN 10264-3:2002)  
- zamijenjena s: HRN EN 10264-3:2012
- HRN EN 10264-4:2003 en  
Čelična žica i žičani proizvodi – Čelična žica za užad – 4. dio: Žica od nehrđajućeg čelika (EN 10264-4:2002)  
Steel wire and wire products – Steel wire for ropes – Part 4: Stainless steel wire (EN 10264-4:2002)  
- zamijenjena s: HRN EN 10264-4:2012
- HRN EN 12163:2002 en  
Bakar i bakrene legure – Šipke opće namjene (EN 12163:1998)  
Copper and copper alloys – Rod for general purposes (EN 12163:1998)  
- zamijenjena s: HRN EN 12163:2012
- HRN EN 12164:2002 en  
Bakar i bakrene legure – Šipke namijenjene obradi odvajanjem čestica (EN 12164:1998+A1:2000)  
Copper and copper alloys – Rod for free machining purposes (EN 12164:1998+A1:2000)  
- zamijenjena s: HRN EN 12164:2012
- HRN EN 12165:2002 en  
Bakar i bakrene legure – Materijal namijenjen kovanju (EN 12165:1998)  
Copper and copper alloys – Wrought and unwrought forging stock (EN 12165:1998)  
- zamijenjena s: HRN EN 12165:2012
- HRN EN 12166:2002 en  
Bakar i bakrene legure – Žica opće namjene (EN 12166:1998)  
Copper and copper alloys – Wire for general purposes (EN 12166:1998)  
- zamijenjena s: HRN EN 12166:2012
- HRN EN 12166:2002/AC:2007 en  
Bakar i bakrene legure – Žica opće namjene (EN 12166:1998/AC:2003)  
Copper and copper alloys – Wire for general purposes (EN 12166:1998/AC:2003)  
- zamijenjena s: HRN EN 12166:2012
- HRN EN 12167:2002 en  
Bakar i bakrene legure – Profili i pravokutne šipke opće namjene (EN 12167:1998)  
Copper and copper alloys – Profiles and rectangular bar for general purposes (EN 12167:1998)  
- zamijenjena s: HRN EN 12167:2012
- HRN EN 12168:2002 en  
Bakar i bakrene legure – Šuplje šipke namijenjene obradi odvajanjem čestica (EN 12168:1998+A1:2000)  
Copper and copper alloys – Hollow rod for free machining purposes (EN 12168:1998+A1:2000)  
- zamijenjena s: HRN EN 12168:2012
- HRN EN 12373-2:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 2. dio: Određivanje mase po jedinici površine (površinska gustoća) prevlaka dobivenih anodnom oksidacijom – Gravimetrijska metoda (EN 12373-2:1998)  
Aluminium and aluminium alloys – Anodizing – Part 2: Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method (EN 12373-2:1998)  
- zamijenjena s: HRN EN ISO 2106:2012
- HRN EN 12373-3:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 3. dio: Određivanje debljine prevlaka dobivenih anodnom oksidacijom – Nerazorno mjerenje mikroskopom s razdijeljenom zrakom (EN 12373-3:1998)  
Aluminium and aluminium alloys – Anodizing – Part 3: Determination of thickness of anodic oxidation coatings – Non-destructive measurement by split-beam microscope (EN 12373-3:1998)  
- zamijenjena s: HRN EN ISO 2128:2010
- HRN EN 12373-9:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 9. dio: Mjerenje otpornosti na trošenje i indeksa trošenja prevlaka dobivenih anodnom oksidacijom pomoću uređaja s brusnom pločom (EN 12373-9:1998)  
Aluminium and aluminium alloys – Anodizing – Part 9: Measurement of wear resistance and wear index of anodic oxidation coatings using an abrasive wheel wear test apparatus (EN 12373-9:1998)  
- zamijenjena s: HRN EN ISO 8251:2012
- HRN EN 12373-10:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 10. dio: Mjerenje srednje specifične abrazivske otpornosti prevlaka dobivenih anodnom oksidacijom pomoću uređaja s abrazivnim mlazom (EN 12373-10:1998)  
Aluminium and aluminium alloys – Anodizing – Part 10: Measurement of mean specific abrasion resistance of anodic oxidation coatings using an abrasive jet test apparatus (EN 12373-10:1998)  
- zamijenjena s: HRN EN ISO 8251:2012
- HRN EN 12373-13:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 13. dio: Mjerenje refleksijskih svojstava aluminijskih površina jednostavnim ili preciznim goniofotometrom (EN 12373-13:2000)  
Aluminium and aluminium alloys – Anodizing – Part 13: Measurement of reflectance characteristic of aluminium surface using a goniophotometer or an abridged goniophotometer (EN 12373-13:2000)  
- zamijenjena s: HRN EN ISO 7759:2010
- HRN EN 12373-15:2002 en  
Aluminij i aluminijeve legure – Anodizacija – 15. dio: Procjena otpornosti prevlaka dobivenih anodnom oksidacijom na nastajanje pukotina pri deformiranju (EN 12373-15:2000)  
Aluminium and aluminium alloys – Anodizing – Part 15: Assessment of resistance of anodic oxidation coatings to cracking by deformation (EN 12373-15:2000)  
- zamijenjena s: HRN EN ISO 3211:2010
- HRS CEN/TS 15022-4:2008 en  
Bakar i legure bakra – Određivanje sadržaja kositra – 4. dio: Prosječni sadržaj kositra – Metoda plamene atomske apsorpcijske spektrometrije (FAAS) (CEN/TS 15022-4:2006)  
Copper and copper alloys – Determination of tin content – Part 4: Medium tin content – Flame atomic absorption spectrometry method (FAAS) (CEN/TS 15022-4:2006)  
- zamijenjena s: HRN EN 15022-4:2012

## **HZN/TO 504, Korozija i zaštita metala i legura**

- HRN EN ISO 6158:2007 en  
Metalne prevlake – Elektrokemijske kromatne prevlake za inženjersku namjenu (ISO 6158:2004; EN ISO 6158:2004)  
Metallic coatings – Electrodeposited coatings of chromium for engineering purposes (ISO 6158:2004; EN ISO 6158:2004)  
- zamijenjena s: HRN EN ISO 6158:2012

- HRN EN 12500:2001 en  
Zaštita metalnih materijala od korozije — Vjerojatnost pojave korozije u atmosferi — Razredba, utvrđivanje i procjena korozivnosti atmosfere (EN 12500:2000)  
Protection of metallic materials against corrosion — Corrosion likelihood in atmospheric environment — Classification, determination and estimation of corrosivity of atmospheric environments (EN 12500:2000)  
- zamijenjena s: HRN EN ISO 9223:2012
- HRN EN 14431:2007 en  
Staklasti i porculanski emajli — Značajke prevlaka emajla nanesenih na čelične ploče za primjenu u arhitekturi (EN 14431:2004)  
Vitreous and porcelain enamels — Characteristics of the enamel coatings applied to steel panels intended for architecture (EN 14431:2004)  
- zamijenjena s: HRN EN ISO 28722:2012
- HRN EN 14483-1:2007 en  
Staklasti i porculanski emajli — Određivanje otpornosti na kemijsku koroziju — 1. dio: Određivanje otpornosti na kemijsku koroziju izazvanu kiselinama pri sobnoj temperaturi (EN 14483-1:2004)  
Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 1: Determination of resistance to chemical corrosion by acids at room temperature (EN 14483-1:2004)  
- zamijenjena s: HRN EN ISO 28706-1:2012
- HRN EN 14483-2:2007 en  
Staklasti i porculanski emajli — Određivanje otpornosti na kemijsku koroziju — 2. dio: Određivanje otpornosti na kemijsku koroziju izazvanu vrijućim kiselinama, neutralnim tekućinama i/ili njihovim parama (EN 14483-2:2004)  
Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 2: Determination of resistance to chemical corrosion by boiling acids, neutral liquids and/or their vapours (EN 14483-2:2004)  
- zamijenjena s: HRN EN ISO 28706-2:2012
- HRN EN 14483-3:2007 en  
Staklasti i porculanski emajli — Određivanje otpornosti na kemijsku koroziju — 3. dio: Određivanje otpornosti na kemijsku koroziju izazvanu lužnatim tekućinama upotrebom šesterokutne posude (EN 14483-3:2004)  
Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 3: Determination of resistance to chemical corrosion by alkaline liquids using a hexagonal vessel (EN 14483-3:2004)  
- zamijenjena s: HRN EN ISO 28706-3:2012
- HRN EN 14483-4:2007 en  
Staklasti i porculanski emajli — Određivanje otpornosti na kemijsku koroziju — 4. dio: Određivanje otpornosti na kemijsku koroziju pod utjecajem lužnatih tekućina pomoću cilindrične posude (EN 14483-4:2004)  
Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 4: Determination of resistance to chemical corrosion by alkaline liquids using a cylindrical vessel (EN 14483-4:2004)  
- zamijenjena s: HRN EN ISO 28706-4:2012
- HRN EN 14483-5:2007 en  
Staklasti i porculanski emajli — Određivanje otpornosti na kemijsku koroziju — 5. dio: Određivanje otpornosti na kemijsku koroziju u zatvorenim sustavima (EN 14483-5:2004)  
Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 5: Determination of resistance to chemical corrosion in closed systems (EN 14483-5:2004)  
- zamijenjena s: HRN EN ISO 28706-5:2012
- HRN EN 14863:2007 en  
Staklasti i porculanski emajli — Određivanje pokrivnosti rubova emajliranog čeličnog lima koji se upotrebljava u izmjenjivačima topline (EN 14863:2005)  
Vitreous and porcelain enamels — Determination of the edge covering on enamelled steel plate to be used in heat exchangers (EN 14863:2005)  
- zamijenjena s: HRN EN ISO 28723:2012
- HRN EN 14866:2007 en  
Staklasti i porculanski emajli — Obnovljive, emajlirane i pakirane obloge za zračno-plinske i plinsko-plinske izmjenjivače topline — Specifikacije (EN 14866:2005)  
Vitreous and porcelain enamels — Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers — Specifications (EN 14866:2005)  
- zamijenjena s: HRN EN ISO 28763:2012
- HRN EN 15159-1:2007 en  
Staklasti i porculanski emajli — Staklasto prevučeni uređaji za procesna postrojenja — 1. dio: Zahtjevi za kvalitetu za uređaje, dijelove, naprave i pribor (EN 15159-1:2006)  
Vitreous and porcelain enamels — Glass lined apparatus for process plants — Part 1: Quality requirements for apparatus, components, appliances and accessories (EN 15159-1:2006)  
- zamijenjena s: HRN EN ISO 28721-1:2012
- HRN EN 15159-2:2007 en  
Staklasti i porculanski emajli — Staklasto prevučeni uređaji za procesna postrojenja — 2. dio: Označavanje i specifikacija otpornosti na kemijsko djelovanje i toplinski šok (EN 15159-2:2006)  
Vitreous and porcelain enamels — Glass-lined apparatus for process plants — Part 2: Designation and specification of resistance to chemical attack and thermal shock (EN 15159-2:2006)  
- zamijenjena s: HRN EN ISO 28721-2:2012
- HRN EN 15159-3:2007 en  
Staklasti i porculanski emajli — Staklasto prevučeni uređaji za procesna postrojenja — 3. dio: Otpornost na toplinski šok (EN 15159-3:2006)  
Vitreous and porcelain enamels — Glass-lined apparatus for process plants — Part 3: Thermal shock resistance (EN 15159-3:2006)  
- zamijenjena s: HRN EN ISO 28721-3:2012
- HRN EN 15206:2008 en  
Staklasti i porculanski emajli — Proizvodnja uzoraka za ispitivanje emajla na limovima od čelika, aluminija i željeznog lijeva (EN 15206:2007)  
Vitreous and porcelain enamels — Production of specimens for testing enamel on sheet steel, sheet aluminium and cast iron (EN 15206:2007)  
- zamijenjena s: HRN EN ISO 28764:2012
- HRN EN 15282:2008 en  
Staklasti i porculanski emajli — Projektiranje vijcima spojenih čeličnih spremnika za skladištenje ili obradu voda ili komunalnih ili industrijskih ispusta i muljeva (EN 15282:2007)  
Vitreous and porcelain enamels — Design of bolted steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges (EN 15282:2007)  
- zamijenjena s: HRN EN ISO 28765:2012
- HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu**
- HRN ISO 10400:1997 en  
Industrija nafte i prirodnog plina — Jednadžba i proračuni karakteristika zaštitnih i uzlaznih cijevi, bušaćih cijevi i cijevi za cjevovode (ISO 10400:1993)  
Petroleum and natural gas industries — Formulae and calculation for casing, tubing, drill pipe and line pipe properties (ISO 10400:1993)  
- zamijenjena s: HRI CEN ISO/TR 10400:2012

- HRN ISO 10414-2:2003 en  
Industrija nafte i prirodnog plina – Ispitivanje tekućina za izradu bušotina u terenskim uvjetima – 2. dio: Tekućine na bazi ulja (ISO 10414-2:2002)  
Petroleum and natural gas industries – Field testing of drilling fluids – Part 2: Oil-based fluids (ISO 10414-2:2002)  
- zamijenjena s: HRN EN ISO 10414-2:2012
- HRN EN ISO 13501:2007 en  
Industrija nafte i prirodnog plina – Bušaći fluidi – Vrednovanje sustava (ISO 13501:2005; EN ISO 13501:2006)  
Petroleum and natural gas industries – Drilling fluids – Processing systems evaluation (ISO 13501:2005; EN ISO 13501:2006)  
- zamijenjena s: HRN EN ISO 13501:2012
- HRN EN ISO 13503-1:2006 en  
Industrija nafte i prirodnog plina – Fluidi i materijali za završno opremanje bušotina – 1. dio: Mjerenje svojstva viskoznosti fluida za završno opremanje bušotina (ISO 13503-1:2003; EN ISO 13503-1:2005)  
Petroleum and natural gas industries – Completion fluids and materials – Part 1: Measurement of viscous properties of completion fluids (ISO 13503-1:2003; EN ISO 13503-1:2005)  
- zamijenjena s: HRN EN ISO 13503-1:2012
- HRN EN ISO 13503-1:2006/Ispr.1:2008 en  
Industrija nafte i prirodnog plina – Fluidi i materijali za završno opremanje bušotina – 1. dio: Mjerenje svojstva viskoznosti fluida za završno opremanje bušotina (ISO 13503-1:2003/Cor 1:2005; EN ISO 13503-1:2005/AC:2007)  
Petroleum and natural gas industries – Completion fluids and materials – Part 1: Measurement of viscous properties of completion fluids (ISO 13503-1:2003/Cor 1:2005; EN ISO 13503-1:2005/AC:2007)  
- zamijenjena s: HRN EN ISO 13503-1:2012
- HRN EN ISO 13678:2010 en  
Industrija nafte i prirodnog plina – Utvrđivanje vrijednosti i ispitivanja masti za podmazivanje navoja na zaštitnim cijevima, uzlaznim cijevima i cjevovodima (ISO 13678:2009; EN ISO 13678:2009)  
Petroleum and natural gas industries – Evaluation and testing of thread compounds for use with casing, tubing, line pipe and drill stem elements (ISO 13678:2009; EN ISO 13678:2009)  
- zamijenjena s: HRN EN ISO 13678:2012
- HRN EN ISO 13706:2008 en  
Industrija nafte i prirodnog plina – Izmjenjivači topline hlađeni zrakom (ISO 13706:2005; EN ISO 13706:2005)  
Petroleum, petrochemical and natural gas industries – Air-cooled heat exchangers (ISO 13706:2005; EN ISO 13706:2005)  
- zamijenjena s: HRN EN ISO 13706:2012
- HRN ISO/TR 13881:2001 en  
Industrija nafte i prirodnog plina – Razredba i procjena sukladnosti proizvoda, procesa i usluga (ISO/TR 13881:2000)  
Petroleum and natural gas industries – Classification and conformity assessment of products, processes and services (ISO/TR 13881:2000)  
- zamijenjena s: HRI CEN ISO/TR 13881:2012
- HRN EN 14161:2006 en  
Industriju nafte i prirodnog plina – Sustav transporta cjevovodima (ISO 13623:2000 modificiran; EN 14161:2003)  
Petroleum and natural gas industries – Pipeline transportation systems (ISO 13623:2000 modified; EN 14161:2003)  
- zamijenjena s: HRN EN 14161:2012
- HRN EN 14870-1:2006 en  
Industrija nafte i prirodnog plina – Toplo savijeni lukovi, fitinzi i prirubnice za cjevovodne transportne sustave – 1. dio: Toplo savijeni lukovi (ISO 15590-1:2001 modificiran; EN 14870-1:2004)  
Petroleum and natural gas industries – Induction bends, fittings and flanges for pipeline transportation systems – Part 1: Induction bends (ISO 15590-1:2001 modified; EN 14870-1:2004)  
- zamijenjena s: HRN EN 14870-1:2012
- HRN EN ISO 15546:2008 en  
Petroleum and natural gas industries – Aluminium alloy drill pipe (ISO 15546:2007; EN ISO 15546:2007)  
- zamijenjena s: HRN EN ISO 15546:2012
- HRN ISO/TS 24817:2007 en  
Industrija nafte, petrokemije i prirodnog plina – Složeni popravci cjevovoda – Ocjena i proračun, izvedba, ispitivanje i inspekcija (ISO/TS 24817:2006)  
Petroleum, petrochemical and natural gas industries – Composite repairs for pipework – Qualification and design, installation, testing and inspection (ISO/TS 24817:2006)  
- zamijenjena s: HRS CEN ISO/TS 24817:2012
- HRN ISO/TS 29001:2004 en  
Industrija nafte, petrokemije i prirodnog plina – Područje-posebni sustavi upravljanja kvalitetom – Zahtjevi za organizacije koje isporučuju proizvode i usluge (ISO/TS 29001:2003)  
Petroleum, petrochemical and natural gas industries – Sector-specific quality management systems – Requirements for product and service supply organizations (ISO/TS 29001:2003)  
- zamijenjena s: HRS CEN ISO/TS 29001:2012

### **HZN/TO 513, Mjerne jedinice i mjerila**

- HRN EN 14154-2:2007 en  
Vodomjeri – 2. dio: Ugradnja i uvjeti uporabe (EN 14154-2:2005+A1:2007)  
Water meters – Part 2: Installation and conditions of use (EN 14154-2:2005+A1:2007)  
- zamijenjena s: HRN EN 14154-2:2012
- HRN EN 14154-3:2007 en  
Vodomjeri – 3. dio: Ispitne metode i oprema (EN 14154-3:2005+A1:2007)  
Water meters – Part 3: Test methods and equipment (EN 14154-3:2005+A1:2007)  
- zamijenjena s: HRN EN 14154-3:2012

### **HZN/TO 522, Karakterizacija i zbrinjavanje otpada**

- HRN EN 13965-2:2011 en  
Karakterizacija otpada – Nazivlje – 2. dio: Upravljanje srodnim nazivima i definicijama (EN 13965-2:2010)  
Characterization of waste – Terminology – Part 2: Management related terms and definitions (EN 13965-2:2010)  
- zamijenjena s: HRN EN 13965-2:2012

### **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

- HRN EN 490:2005 en  
Betonski crijep i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Specifikacije proizvoda (EN 490:2004)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Product specifications (EN 490:2004)  
- zamijenjena s: HRN EN 490:2012
- HRN EN 490:2005/A1:2008 en  
Betonski crijep i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Specifikacije proizvoda (EN 490:2004/A1:2006)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Product specifications (EN 490:2004/A1:2006)  
- zamijenjena s: HRN EN 490:2012

- HRN EN 491:2005 en  
Betonski crijep i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Ispitne metode (EN 491:2004)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Test methods (EN 491:2004)  
- zamijenjena s: HRN EN 491:2012
- HRN EN 491:2005/AC:2007 en  
Betonski crijep i pomoćni dijelovi za pokrivanje krovova i oblaganje zidova – Ispitne metode (EN 491:2004/AC:2005)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Test methods (EN 491:2004/AC:2005)  
- zamijenjena s: HRN EN 491:2012

## **HZN/TO 528, Oprema za željeznice**

- HRN EN 13145:2003 en  
Oprema za željeznice – Željeznički gornji ustroj – Drveni pragovi i nosači (EN 13145:2001)  
Railway applications – Track – Wood sleepers and bearers (EN 13145:2001)  
- zamijenjena s: HRN EN 13145:2012
- HRN EN 13146-9:2010 en  
Oprema za željeznice – Željeznički gornji ustroj – Metode ispitivanja za kolosječni pričvrtni pribor – 9. dio: Određivanje krutosti (EN 13146-9:2009)  
Railway applications – Track – Test methods for fastening systems – Part 9: Determination of stiffness (EN 13146-9:2009)  
- zamijenjena s: HRN EN 13146-9:2012
- HRN EN 13232-2:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 2. dio: Zahtjevi za geometrijsko oblikovanje (EN 13232-2:2003)  
Railway applications – Track; Switches and crossings – Part 2: Requirements for geometric design (EN 13232-2:2003)  
- zamijenjena s: HRN EN 13232-2:2012
- HRN EN 13232-3:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 3. dio: Zahtjevi za uzajamno djelovanje kotača i tračnice (EN 13232-3:2003)  
Railway applications – Track – Switches and crossings – Part 3: Requirements for wheel/rail interaction (EN 13232-3:2003)  
- zamijenjena s: HRN EN 13232-3:2012
- HRN EN 13232-4:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 4. dio: Postavljanje, zaključavanje i kontrola položaja (EN 13232-4:2005)  
Railway applications – Track – Switches and crossings – Part 4: Actuation, locking and detection (EN 13232-4:2005)  
- zamijenjena s: HRN EN 13232-4:2012
- HRN EN 13232-5:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 5. dio: Mijenjalica (EN 13232-5:2005)  
Railway applications – Track – Switches and crossings – Part 5: Switches (EN 13232-5:2005)  
- zamijenjena s: HRN EN 13232-5:2012
- HRN EN 13232-6:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 6. dio: Nepomična obična i dvostruka srca (EN 13232-6:2005)  
Railway applications – Track – Switches and crossings – Part 6: Fixed common and obtuse crossings (EN 13232-6:2005)  
- zamijenjena s: HRN EN 13232-6:2012
- HRN EN 13232-7:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 7. dio: Srca s pomičnim dijelovima (EN 13232-7:2006)

Railway applications – Track – Switches and crossings – Part 7: Crossings with moveable parts (EN 13232-7:2006)  
- zamijenjena s: HRN EN 13232-7:2012

- HRN EN 13232-8:2008 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 8. dio: Dilatacijske naprave (EN 13232-8:2007)  
Railway applications – Track – Switches and crossings – Part 8: Expansion devices (EN 13232-8:2007)  
- zamijenjena s: HRN EN 13232-8:2012
- HRN EN 13232-9:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta – 9. dio: Sklapanje (EN 13232-9:2006)  
Railway applications – Track – Switches and crossings – Part 9: Layouts (EN 13232-9:2006)  
- zamijenjena s: HRN EN 13232-9:2012
- HRN EN 15746-1:2011 en  
Oprema za željeznice – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 1. dio: Tehnički zahtjevi za kretanje i rad (EN 15746-1:2010)  
Railway applications – Track – Road-rail machines and associated equipment – Part 1: Technical requirements for running and working (EN 15746-1:2010)  
- zamijenjena s: HRN EN 15746-1:2012
- HRN EN 15746-2:2011 en  
Oprema za željeznice – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 2. dio: Općeniti sigurnosni zahtjevi (EN 15746-2:2010)  
Railway applications – Track – Road-rail machines and associated equipment – Part 2: General safety requirements (EN 15746-2:2010)  
- zamijenjena s: HRN EN 15746-2:2012

## **HZN/TO 531, Plastika i guma**

- HRN EN ISO 1043-1:2008 en  
Plastika – Simboli i skraćeni nazivi – 1. dio: Osnovni polimeri i njihova karakteristična svojstva (ISO 1043-1:2001; EN ISO 1043-1:2001)  
Plastics – Symbols and abbreviated terms – Part 1: Basic polymers and their special characteristics (ISO 1043-1:2001; EN ISO 1043-1:2001)  
- zamijenjena s: HRN EN ISO 1043-1:2012
- HRN EN ISO 1043-2:2008 en  
Plastika – Simboli i skraćeni nazivi – 2. dio: Punila i ojačavala (ISO 1043-2:2000; EN ISO 1043-2:2001)  
Plastics – Symbols and abbreviated terms – Part 2: Fillers and reinforcing materials (ISO 1043-2:2000; EN ISO 1043-2:2001)  
- zamijenjena s: HRN EN ISO 1043-2:2012
- HRN EN ISO 1133:2008 en  
Plastika – Određivanje masenog protoka taljevine (MFR) i volumnog protoka taljevine (MVR) plastomera (ISO 1133:2005; EN ISO 1133:2005)  
Plastics – Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics (ISO 1133:2005; EN ISO 1133:2005)  
- zamijenjena s: HRN EN ISO 1133-1:2012
- HRN EN ISO 1622-1:2008 en  
Plastika – Polistirenski (PS) prešani i ekstrudirani materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 1622-1:1994; EN ISO 1622-1:1999)  
Plastics – Polystyrene (PS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 1622-1:1994; EN ISO 1622-1:1999)  
- zamijenjena s: HRN EN ISO 1622-1:2012

## HZN/TO 534, Spremnici za teret

- HRN EN 13044:2008 en  
Izmjenjiva tijela – Kodiranje, identifikacija i označavanje (EN 13044:2000)  
Swap bodies – Coding, identification and marking (EN 13044:2000)  
- zamijenjena s: HRN EN 13044-1:2012

## HZN/TO 535, Agregati

- HRN EN 933-1:2003 en  
Ispitivanje geometrijskih svojstava agregata – 1. dio: Određivanje granulometrijskog sastava – Metoda sisanja (EN 933-1:1997)  
Tests for geometrical properties of aggregates – Part 1: Determination of particle size distribution – Sieving method (EN 933-1:1997)  
- zamijenjena s: HRN EN 933-1:2012
- HRN EN 933-1:2003/A1:2007 en  
Ispitivanje geometrijskih svojstava agregata – 1. dio: Određivanje granulometrijskog sastava – Metoda sisanja (EN 933-1:1997/A1:2005)  
Tests for geometrical properties of aggregates – Part 1: Determination of particle size distribution – Sieving method (EN 933-1:1997/A1:2005)  
- zamijenjena s: HRN EN 933-1:2012
- HRN EN 933-3:2004 en  
Ispitivanja geometrijskih svojstava agregata – 3. dio: Određivanje oblika zrna – Indeks plosnatosti (EN 933-3:1997)  
Tests for geometrical properties of aggregates – Part 3: Determination of particle shape – Flakiness index (EN 933-3:1997)  
- zamijenjena s: HRN EN 933-3:2012
- HRN EN 933-3:2004/A1:2007 en  
Ispitivanja geometrijskih svojstava agregata – 3. dio: Određivanje oblika zrna – Indeks plosnatosti (EN 933-3:1997/A1:2003)  
Tests for geometrical properties of aggregates – Part 3: Determination of particle shape – Flakiness index (EN 933-3:1997/A1:2003)  
- zamijenjena s: HRN EN 933-3:2012
- HRN EN 933-8:2004 en  
Ispitivanja geometrijskih svojstava agregata – 8. dio: Procjena sitnih čestica – Određivanje ekvivalenta pijeska (EN 933-8:1999)  
Test for geometrical properties of aggregates – Part 8: Assessment of fines – Sand equivalent test (EN 933-8:1999)  
- zamijenjena s: HRN EN 933-8:2012

## HZN/TO 536, Vrata, prozori i staklo u graditeljstvu

- HRN EN 674:2005 en  
Staklo u graditeljstvu – Određivanjem koeficijenta prolaska topline (U-vrijednost) – Metoda sa zaštićenom vrućom pločom (EN 674:1997)  
Glass in building – Determination of thermal transmittance (U value) – Guarded hot plate method (EN 674:1997)  
- zamijenjena s: HRN EN 674:2012
- HRN EN 675:2005 en  
Staklo u graditeljstvu – Određivanjem koeficijenta prolaska topline (U-vrijednost) – Tokomjerna metoda (EN 675:1997)  
Glass in building – Determination of thermal transmittance (U value) – Heat flow meter method (EN 675:1997)  
- zamijenjena s: HRN EN 675:2012
- HRN EN 1096-1:2008 en  
Staklo u graditeljstvu – Staklo s premazom – 1. dio: Definicija i razredba (EN 1096-1:1998)  
Glass in building – Coated glass – Part 1: Definitions and classification (EN 1096-1:1998)  
- zamijenjena s: HRN EN 1096-1:2012

- HRN EN 1096-2:2008 en  
Staklo u graditeljstvu – Staklo s premazom – 2. dio: Zahtjevi i ispitne metode za razrede premaza A, B i D (EN 1096-2:2001)  
Glass in building – Coated glass – Part 2: Requirements and test methods for class A, B and S coatings (EN 1096-2:2001)  
- zamijenjena s: HRN EN 1096-2:2012

- HRN EN 1096-3:2008 en  
Staklo u graditeljstvu – Staklo s premazom – 3. dio: Zahtjevi i ispitne metode za razrede premaza C i D (EN 1096-3:2001)  
Glass in building – Coated glass – Part 3: Requirements and test methods for class C and D coatings (EN 1096-3:2001)  
- zamijenjena s: HRN EN 1096-3:2012

- HRN EN 1863-1:2005 en  
Staklo u graditeljstvu – Toplinski ojačano natrij-kalcij-silikatno staklo – 1. dio: Definicija i opis (EN 1863-1:2000)  
Glass in building – Heat strengthened soda lime silicate glass – Part 1: Definition and description (EN 1863-1:2000)  
- zamijenjena s: HRN EN 1863-1:2012

- HRN EN 13024-1:2008 en  
Glass in building – Thermally toughened borosilicate safety glass – Part 1: Definition and description (EN 13024-1:2002)  
- zamijenjena s: HRN EN 13024-1:2012

- HRN ENV 13050:2001 en  
Ovještene fasade – Vodonepropusnost – Laboratorijsko ispitivanje s promjenjivim tlakom zraka i prskanjem vodom (ENV 13050:2000)  
Curtain walling – Watertightness – Laboratory test under dynamic condition of air pressure and water spray (ENV 13050:2000)  
- zamijenjena s: HRN EN 13050:2012

- HRN EN 13126-1:2008 en  
Građevni okovi – Zahtjevi i ispitne metode za prozore i prozorska vrata – 1. dio: Zahtjevi za sve vrste pribora (EN 13126-1:2006)  
Building hardware – Requirements and test methods for windows and doors height windows – Part 1: Requirements common to all types of hardware (EN 13126-1:2006)  
- zamijenjena s: HRN EN 13126-1:2012

- HRN CEN/TS 13126-2:2005 en  
Građevni okovi, pribor za prozore i prozorska vrata – Zahtjevi i ispitne metode – 2. dio: Zatvarači s ručkom (CEN/TS 13126-2:2004)  
Building hardware, fittings for windows and door height windows – Requirements and test methods – Part 2: Casement fastener handles (CEN/TS 13126-2:2004)  
- zamijenjena s: HRN EN 13126-2:2012

- HRN CEN/TS 13126-3:2005 en  
Građevni okovi, pribor za prozore i prozorska vrata – Zahtjevi i ispitne metode – 3. dio: Pribor za rukovanjem mehanizmom prozora (CEN/TS 13126-3:2004)  
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- zamijenjena s: HRN EN 13126-3:2012

## HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama

- HRN EN 13053:2008 en  
Ventilacija u zgradama – Centralne jedinice za pripremu zraka – Podjela i značajke jedinica, dijelova i sekcija (EN 13053:2006)  
Ventilation for buildings – Air handling units – Rating and performance for units, components and sections (EN 13053:2006)  
- zamijenjena s: HRN EN 13053:2012



HRN EN 13141-4:2004 en  
Ventilacija u zgradama – Ispitivanje značajki dijelova/ proizvoda za stambenu ventilaciju – 4. dio: Ventilatori koji se upotrebljavaju u sustavima stambene ventilacije (EN 13141-4:2004)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 4: Fans used in residential ventilation systems (EN 13141-4:2004)  
- zamijenjena s: HRN EN 13141-4:2012

HRN EN 13141-7:2008 en  
Ventilacija u zgradama – Ispitivanje značajki dijelova/ proizvoda za ventilaciju stambenih zgrada – 7. dio: Ispitivanje značajki sustava ventilacije za dobavu i otkis (uključujući povrat topline) za obiteljsku kuću (EN 13141-7:2004)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings (EN 13141-7:2004)  
- zamijenjena s: HRN EN 13141-7:2012

HRN EN 15232:2008 en  
Energijske značajke zgrada – Utjecaj automatizacije zgrada, nadzor i upravljanje zgradama (EN 15232:2007)  
Energy performance of buildings – Impact of Building Automation, Controls and Building Management (EN 15232:2007)  
- zamijenjena s: HRN EN 15232:2012

#### **HZN/TO 548, Konstrukcijski eurokodovi**

HRN EN 1996-1-2:2008 en  
Eurokod 6: Projektiranje zidanih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na djelovanje požara (EN 1996-1-2:2005)  
Eurocode 6: Design of masonry structures – Part 1-2: General rules – Structural fire design (EN 1996-1-2:2005)  
- zamijenjena s: HRN EN 1996-1-2:2012

HRN EN 1996-1-2:2008/Ispr.1:2011 en  
Eurokod 6: Projektiranje zidanih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na djelovanje požara (EN 1996-1-2:2005/AC:2010)  
Eurocode 6: Design of masonry structures – Part 1-2: General rules – Structural fire design (EN 1996-1-2:2005/AC:2010)  
- zamijenjena s: HRN EN 1996-1-2:2012

HRN EN 1996-2:2008 en  
Eurokod 6: Projektiranje zidanih konstrukcija – 2. dio: Konstruiranje, odabir materijala i izvedba zida (EN 1996-2:2006)  
Eurocode 6: Design of masonry structures – Part 2: Design considerations, selection of materials and execution of masonry (EN 1996-2:2006)  
- zamijenjena s: HRN EN 1996-2:2012

HRN EN 1996-2:2008/Ispr.1:2011 en  
Eurokod 6: Projektiranje zidanih konstrukcija – 2. dio: Konstruiranje, odabir materijala i izvedba zida (EN 1996-2:2006/AC:2009)  
Eurocode 6: Design of masonry structures – Part 2: Design considerations, selection of materials and execution of masonry (EN 1996-2:2006/AC:2009)  
- zamijenjena s: HRN EN 1996-2:2012

HRN EN 1996-3:2008 en  
Eurokod 6: Projektiranje zidanih konstrukcija – 3. dio: Pojednostavnjene proračunske metode za nearmirane zidane konstrukcije (EN 1996-3:2006)  
Eurocode 6: Design of masonry structures – Part 3: Simplified calculation methods for unreinforced masonry structures (EN 1996-3:2006)  
- zamijenjena s: HRN EN 1996-3:2012

HRN EN 1996-3:2008/Ispr.1:2011 en  
Eurokod 6: Projektiranje zidanih konstrukcija – 3. dio: Pojednostavnjene proračunske metode za nearmirane zidane konstrukcije (EN 1996-3:2006/AC:2009)  
Eurocode 6: Design of masonry structures – Part 3: Simplified calculation methods for unreinforced masonry structures (EN 1996-3:2006/AC:2009)  
- zamijenjena s: HRN EN 1996-3:2012

#### **HZN/TO 553, Predgotovljeni proizvodi**

HRN EN 1168:2009 en  
Predgotovljeni betonski proizvodi – Ploče sa šuplinama (EN 1168:2005+A2:2009)  
Precast concrete products – Hollow core slabs (EN 1168:2005+A2:2009)  
- zamijenjena s: HRN EN 1168:2012

HRN EN 12839:2004 en  
Predgotovljeni betonski proizvodi – Elementi za ograde (EN 12839:2001)  
Precast concrete products – Elements for fences (EN 12839:2001)  
- zamijenjena s: HRN EN 12839:2012

#### **HZN/TO 559, Zaporni, regulacijski i sigurnosni uređaji**

HRN EN 558:2008 en  
Industrijski zaporni uređaji – Ugradbene mjere između krajeva i osi i kraja kod metalnih zapornih uređaja za primjenu u cijevnim sustavima s prirubničkim spojevima – Zaporni uređaji s oznakama PN-a i razreda (EN 558:2008)  
Industrial valves – Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems – PN and Class designated valves (EN 558:2008)  
- zamijenjena s: HRN EN 558:2012

#### **HZN/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce**

HRN EN ISO 11114-3:2003 en  
Prenosive plinske boce – Uskladivost materijala boce i ventila sa sadržanim plinom – 3. dio: Ispitivanje samozapaljenja u atmosferi kisika (ISO 11114-3:1997; EN ISO 11114-3:1997)  
Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 3: Autogenous ignition test in oxygen atmosphere (ISO 11114-3:1997; EN ISO 11114-3:1997)  
- zamijenjena s: HRN EN ISO 11114-3:2012

HRN EN ISO 11114-3:2003/Ispr.1:2008 en  
Prenosive plinske boce – Uskladivost materijala boce i ventila sa sadržanim plinom – 3. dio: Ispitivanje samozapaljenja u atmosferi kisika (EN ISO 11114-3:1997/AC:1998)  
Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 3: Autogenous ignition test in oxygen atmosphere (EN ISO 11114-3:1997/AC:1998)  
- zamijenjena s: HRN EN ISO 11114-3:2012

HRN EN 12952-2:2004 en  
Vodocijevni kotlovi i pomoćne instalacije – 2. dio: Materijali za dijelove kotlova i opremu pod tlakom (EN 12952-2:2001)  
Water-tube boilers and auxiliary installations – Part 2: Materials for pressure parts of boilers and accessories (EN 12952-2:2001)  
- zamijenjena s: HRN EN 12952-2:2012

HRN EN 12952-3:2004 en  
Vodocijevni kotlovi i pomoćne instalacije – 3. dio: Konstrukcija i proračun dijelova pod tlakom (EN 12952-3:2001)  
Water-tube boilers and auxiliary installations – Part 3: Design and calculation for pressure parts (EN 12952-3:2001)  
- zamijenjena s: HRN EN 12952-3:2012

HRN EN 12952-4:2004 en  
Vodocijevni kotlovi i pomoćne instalacije – 4. dio: Izračun očekivanog vijeka trajanja kotla u uporabi (EN 12952-4:2000)  
Water-tube boilers and auxiliary installations – Part 4: In-service boiler life expectancy calculations (EN 12952-4:2000)  
- zamijenjena s: HRN EN 12952-4:2012

HRN EN 12952-5:2004 en  
Vodocijevni kotlovi i pomoćne instalacije – 5. dio: Izrada i konstrukcija dijelova kotla pod tlakom (EN 12952-5:2001)  
Water-tube boilers and auxiliary installations – Part 5: Workmanship and construction of pressure parts of the boiler (EN 12952-5:2001)  
- zamijenjena s: HRN EN 12952-5:2012

HRN EN 12952-6:2004 en  
Vodocijevni kotlovi i pomoćne instalacije – 6. dio: Nadzor tijekom izradbe; dokumentacija i označavanje dijelova kotla pod tlakom (EN 12952-6:2002)  
Water-tube boilers and auxiliary installations – Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler (EN 12952-6:2002)  
- zamijenjena s: HRN EN 12952-6:2012

### **HZN/TO 563, Sigurnost strojeva**

HRN EN 1010-2:2008 en  
Safety of machinery – Safety requirements for the design and construction of printing and paper converting machines – Part 2: Printing and varnishing machines including pre-press machinery (EN 1010-2:2006)  
- zamijenjena s: HRN EN 1010-2:2012

### **HZN/TO E8, Sustavski vidovi opskrbe električnom energijom**

HRN IEC 60196:1998 en  
IEC normirane frekvencije (IEC 60196:1965)  
IEC standard frequencies (IEC 60196:1965)  
- zamijenjena s: HRN EN 60196:2012

### **HZN/TO E31, Eksplozivne atmosfere**

HRN EN 26184-1:2007 en  
Sustavi za zaštitu od eksplozije – 1. dio: Određivanje eksplozivnih pokazatelja zapaljivih prašina u zraku (ISO 6184-1:1985; EN 26184-1:1991)  
Explosion protection systems – Part 1: Determination of explosion indices of combustible dusts in air (ISO 6184-1:1985; EN 26184-1:1991)  
- bez zamjene

HRN EN 26184-2:2007 en  
Sustavi za zaštitu od eksplozije – 2. dio: Određivanje eksplozivnih pokazatelja zapaljivih plinova u zraku (ISO 6184-2:1985; EN 26184-2:1991)  
Explosion protection systems – Part 2: Determination of explosion indices of combustible gases in air (ISO 6184-2:1985; EN 26184-2:1991)  
- bez zamjene

HRN EN 26184-3:2007 en  
Sustavi za zaštitu od eksplozije – 3. dio: Određivanje eksplozivnih pokazatelja smjese gorivo/zrak izuzev smjese prašina/zrak i plin/zrak (ISO 6184-3:1985; EN 26184-3:1991)  
Explosion protection systems – Part 3: Determination of explosion indices of fuel/air mixtures other than dust/air and gas/air mixtures (ISO 6184-3:1985; EN 26184-3:1991)  
- bez zamjene

HRN EN 26184-4:2007 en  
Sustavi za zaštitu od eksplozije – 4. dio: Određivanje djelotvornosti sustava za suzbijanje eksplozije (ISO 6184-4:1985; EN 26184-4:1991)  
Explosion protection systems – Part 4: Determination of efficacy of explosion suppression systems (ISO 6184-4:1985; EN 26184-4:1991)  
- bez zamjene

HRN EN 50014:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Opći zahtjevi (EN 50014:1997)  
Electrical apparatus for potentially explosive atmospheres – General requirements (EN 50014:1997)  
- zamijenjena s: HRN EN 60079-0:2009

HRN EN 50014/A1+A2:2000 en  
Električni uređaji za eksplozivnu atmosferu – Opći zahtjevi (EN 50014:1997/A1:1999+A2:1999)  
Electrical apparatus for potentially explosive atmospheres – General requirements (EN 50014:1997/A1:1999+A2:1999)  
- zamijenjena s: HRN EN 60079-0:2009

HRN EN 50015:2001 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Uranjanje u ulje “o” (EN 50015:1998)  
Electrical apparatus for potentially explosive atmospheres – Oil immersion “o” (EN 50015:1998)  
- zamijenjena s: HRN EN 60079-6:2007

HRN EN 50016:2003 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Nadtlak “p” (EN 50016:2002)  
Electrical apparatus for potentially explosive atmospheres – Pressurised apparatus “p” (EN 50016:2002)  
- zamijenjena s: HRN EN 60079-2:2009

HRN EN 50017:2001 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Punjenje praškom “q” (EN 50017:1998)  
Electrical apparatus for potentially explosive atmospheres – Powder filling “q” (EN 50017:1998)  
- zamijenjena s: HRN EN 60079-5:2009

HRN EN 50018:2001 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Oklapanje “d” (EN 50018:2000)  
Electrical apparatus for potentially explosive atmospheres – Flameproof enclosure “d” (EN 50018:2000)  
- zamijenjena s: HRN EN 60079-1:2008

HRN EN 50018/A1:2003 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Oklapanje “d” (EN 50018:2000/A1:2002)  
Electrical apparatus for potentially explosive atmospheres – Flameproof enclosure “d” (EN 50018:2000/A1:2002)  
- zamijenjena s: HRN EN 60079-1:2008

HRN EN 50019:2001 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Povećana sigurnost “e” (EN 50019:2000)  
Electrical apparatus for potentially explosive atmospheres – Increased safety “e” (EN 50019:2000)  
- zamijenjena s: HRN EN 60079-7:2007

HRN EN 50020:2003 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Samosigurnost “i” (EN 50020:2002)  
Electrical apparatus for potentially explosive atmospheres – Intrinsic safety “i” (EN 50020:2002)  
- zamijenjena s: HRN EN 60079-11:2007

HRN EN 50028:1999 hr  
Električni uređaji za potencijalno eksplozivne atmosfere – Punjenje krutim tvarima “m” (EN 50028:1987)  
Electrical apparatus for potentially explosive atmospheres – Encapsulation “m” (EN 50028:1987)  
- zamijenjena s: HRN EN 60079-18:2010

- HRN EN 50033:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Naglavne rudarske svjetiljke za rudnike sa zapaljivim parama (EN 50033:1991)  
Electrical apparatus for potentially explosive atmospheres – Caplights for mines susceptible to firedamp (EN 50033:1991)  
- bez zamjene
- HRN EN 50039:2000 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Samosigurni električni sustavi "i" (EN 50039:1980)  
Electrical apparatus for potentially explosive atmospheres – Intrinsically safe electrical systems "i" (EN 50039:1980)  
- zamijenjena s: HRN EN 60079-11:2007
- HRN EN 50053-1:1997 en  
Zahtjevi za elektrostatičku opremu za raspršivanje zapaljivih tvari – 1. dio: Ručni pištolji za elektrostatičko raspršivanje boje s ograničenjem energije od 0,24 mJ i njima pridruženi uređaji (EN 50053-1:1987)  
Requirements for electrostatic spraying equipment for flammable materials – Part 1: Hand-held paint spray guns with an energy limit of 0,24 mJ and their associated apparatus (EN 50053-1:1987)  
- zamijenjena s: HRN EN 50050:2009
- HRN EN 50053-2:1997 en  
Zahtjevi za elektrostatičku opremu za raspršivanje zapaljivih tvari – 2. dio: Ručni pištolji za elektrostatičko raspršivanje boje s ograničenjem energije od 5 mJ i njima pridruženi uređaji (EN 50053-2:1989)  
Requirements for electrostatic spraying equipment for flammable materials – Part 2: Hand-held paint spray guns with an energy limit of 5 mJ and their associated apparatus (EN 50053-2:1989)  
- zamijenjena s: HRN EN 50050:2009
- HRN EN 50053-3:1997 en  
Zahtjevi za elektrostatičku opremu za raspršivanje zapaljivih tvari – 3. dio: Ručni pištolji za elektrostatičko nanošenje vlaknaca s ograničenjem energije od 0,24 mJ ili 5 mJ i njima pridruženi uređaji (EN 50053-3:1989)  
Requirements for electrostatic spraying equipment for flammable materials – Part 3: Hand-held flock spray guns with an energy limit of 0,25 mJ or 5 mJ and associated apparatus (EN 50053-3:1989)  
- zamijenjena s: HRN EN 50050:2009
- HRN EN 50073:2004 en  
Upute za izbor, instalaciju, uporabu i održavanje uređaja za otkrivanje i mjerenje zapaljivih plinova ili kisika (EN 50073:1999)  
Guide for selection, installation, use and maintenance of apparatus for the detection and measurement of flammable gases or oxygen (EN 50073:1999)  
- zamijenjena s: HRN EN 60079-29-2:2008
- HRN EN 50177:1997 en  
Automatske elektrostatičke instalacije za raspršivanje zapaljivog praha za nanošenje (EN 50177:1996)  
Automatic electrostatic spraying installations for flammable coating powder (EN 50177:1996)  
- zamijenjena s: HRN EN 50177:2010
- HRN ENV 50269:2001 en  
Procjena i odgovarajuće ispitivanje visokonaponskih strojeva (ENV 50269:1997)  
Assessment and representative testing of high-voltage machines (ENV 50269:1997)  
- zamijenjena s: HRN EN 60079-7:2007
- HRN EN 50270:2001 en  
Elektromagnetska kompatibilnost – Električni uređaji za otkrivanje i mjerenje zapaljivih plinova, otrovnih plinova ili kisika (EN 50270:1999)  
Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen (EN 50270:1999)  
- zamijenjena s: HRN EN 50270:2008
- HRN EN 50281-1-2:2000 en  
Električni uređaji za uporabu u prostorima sa zapaljivom prašinom – Dio 1-2: Električni uređaji zaštićeni kucištem – Izbor, instaliranje i održavanje (EN 50281-1-2:1998+Corr.1:1999)  
Electrical apparatus for use in the presence of combustible dust – Part 1-2: Electrical apparatus protected by enclosures – Selection, installation and maintenance (EN 50281-1-2:1998+Corr.1:1999)  
- zamijenjena s: HRN EN 60079-17:2008
- HRN EN 50281-1-2/A1:2003 en  
Električni uređaji za uporabu u prostorima sa zapaljivom prašinom – Dio 1-2: Električni uređaji zaštićeni kucištem – Izbor, instaliranje i održavanje (EN 50281-1-2:1998/A1:2002)  
Electrical apparatus for use in the presence of combustible dust – Part 1-2: Electrical apparatus protected by enclosures – Selection, installation and maintenance (EN 50281-1-2:1998/A1:2002)  
- zamijenjena s: HRN EN 60079-17:2008
- HRN EN 50281-3:2003 en  
Električni uređaji za uporabu u prostorima sa zapaljivom prašinom – 3. dio: Razredba prostora gdje jesu ili mogu biti zapaljive prašine (EN 50281-3:2002)  
Electrical apparatus for use in the presence of combustible dust – Part 3: Classification of areas where combustible dusts are or may be present (EN 50281-3:2002)  
- zamijenjena s: HRN EN 60079-10-2:2009
- HRN EN 50284:2001 hr  
Električni uređaji za potencijalno eksplozivne atmosfere – Posebni zahtjevi za konstrukciju, ispitivanje i označavanje električnih uređaja skupine II, kategorija 1G (EN 50284:1999)  
Electrical apparatus for potentially explosive atmospheres – Special requirements for construction, test and marking of electrical apparatus of equipment group II, Category 1G (EN 50284:1999)  
- zamijenjena s: HRN EN 60079-26:2007
- HRN IEC 60079-1-1:2003 en  
Električni uređaji za potencijalno eksplozivne atmosfere – Dio 1-1: Oklapanje "d" – Metoda za određivanje najvećeg eksperimentalnog zaštitnog raspora (IEC 60079-1-1:2002)  
Electrical apparatus for potentially explosive atmospheres – Part 1-1: Flameproof enclosures "d" – Method of test for ascertainment of maximum experimental safe gap (IEC 60079-1-1:2002)  
- zamijenjena s: HRN EN 60079-20-1:2011
- HRN IEC 60079-4:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – 4. dio: Metoda određivanja temperature paljenja (IEC 60079-4:1975+am1:1995)  
Electrical apparatus for potentially explosive atmospheres – Part 4: Method of test for ignition temperature (IEC 60079-4:1975+am1:1995)  
- zamijenjena s: HRN EN 60079-20-1:2011
- HRN IEC 60079-4A:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – 4A. dio: Metoda određivanja temperature paljenja – Prva dopuna (IEC 60079-4A:1970)  
Electrical apparatus for potentially explosive atmospheres – Part 4A: Method of test for ignition temperature – First supplement (IEC 60079-4A:1970)  
- zamijenjena s: HRN EN 60079-20-1:2011
- HRN EN 60079-14:2004 en  
Električni uređaji za eksplozivne plinske atmosfere – 14. dio: Električne instalacije u ugroženim prostorima (osim rudnika) (IEC 60079-14:2002; EN 60079-14:2003)  
Electrical apparatus for explosive gas atmospheres – Part 14: Electrical installations in hazardous areas (other than mines) (IEC 60079-14:2002; EN 60079-14:2003)  
- zamijenjena s: HRN EN 60079-14:2009

- HRN IEC 60079-16:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – 16. dio: Prisilna ventilacija za zaštitu analizatorskih kućica (IEC 60079-16:1990)  
Electrical apparatus for potentially explosive atmospheres – Part 16: Artificial ventilation for the protection of analyzer(s) houses (IEC 60079-16:1990)  
- bez zamjene
- HRN IEC/TR3 60079-20:1997 en  
Električni uređaji za potencijalno eksplozivne atmosfere – 20. dio: Podaci o zapaljivim plinovima i parama u odnosu na uporabu električnih uređaja (IEC/TR3 60079-20:1996)  
Electrical apparatus for potentially explosive atmospheres – Part 20: Data for flammable gases and vapours, relating to the use of electrical apparatus (IEC/TR3 60079-20:1996)  
- zamijenjena s: HRN EN 60079-20-1:2011
- HRN EN 60079-27:2006 en  
Električni uređaji za eksplozivne atmosfere – 27. dio: Koncept samosigurne sabirnice (FISCO) i koncept nepaleće sabirnice (FNICO) (IEC 60079-27:2005; EN 60079-27:2006)  
Electrical apparatus for explosive gas atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO) (IEC 60079-27:2005; EN 60079-27:2006)  
- zamijenjena s: HRN EN 60079-27:2008
- HRN IEC 61241-1-1:2003 en  
Električni uređaji za uporabu u zapaljivoj prašini – 1. dio: Električni uređaji zaštićeni kućicama – 1. odjeljak: Specifikacije za uređaje (IEC 61241-1-1:1999)  
Electrical apparatus for use in the presence of combustible dust – Part 1: Electrical apparatus protected by enclosures – Section 1: Specification for apparatus (IEC 61241-1-1:1999)  
- bez zamjene
- HRN IEC 61241-1-2:2003 en  
Električni uređaji za uporabu u zapaljivoj prašini – 1. dio: Električni uređaji zaštićeni kućicama – 2. odjeljak: Izbor, instalacija i održavanje (IEC 61241-1-2:1999)  
Electrical apparatus for use in the presence of combustible dust – Part 1: Electrical apparatus protected by enclosures – Section 2: Selection, installation and maintenance (IEC 61241-1-2:1999)  
- zamijenjena s: HRN EN 60079-29-2:2008
- HRN IEC 61241-2-1:1997 en  
Električni uređaji za uporabu u zapaljivoj prašini – 2. dio: Metode ispitivanja – 1. odjeljak: Metoda određivanja najmanje temperature paljenja prašine (IEC 61241-2-1:1994)  
Electrical apparatus for use in the presence of combustible dust – Part 2: Test methods – Section 1: Methods of determining the minimum ignition temperatures of dust (IEC 61241-2-1:1994)  
- bez zamjene
- HRN IEC 61241-2-3:1997 en  
Električni uređaji za uporabu u zapaljivoj prašini – 2. dio: Metode ispitivanja – 3. odjeljak: Metoda određivanja najmanje energije paljenja smjese zraka i prašine (IEC 61241-2-3:1994)  
Electrical apparatus for use in the presence of combustible dust – Part 2: Test methods – Section 3: Method for determining minimum ignition energy of dust/air mixtures (IEC 61241-2-3:1994)  
- bez zamjene
- HRN IEC 61241-3:1997 en  
Električni uređaji za uporabu u zapaljivoj prašini – 3. dio: Klasifikacija područja gdje mogu biti zapaljive prašine (IEC 61241-3:1997)  
Electrical apparatus for use in the presence of combustible dust – Part 3: Classification of areas where combustible dusts are or may be present (IEC 61241-3:1997)  
- zamijenjena s: HRN EN 50281-3:2003
- HRN EN 61241-14:2005 en  
Električni uređaji za uporabu u zapaljivoj prašini – 14. dio: Izbor i instalacije (IEC 61241-14:2004; EN 61241-14:2004)  
Electrical apparatus for use in the presence of combustible dust – Part 14: Selection and installation (IEC 61241-14:2004; EN 61241-14:2004)  
- zamijenjena s: HRN EN 60079-14:2009
- HRN EN 61241-17:2005 en  
Električni uređaji za uporabu u zapaljivoj prašini – 17. dio: Pregled i održavanje električnih instalacija u ugroženim prostorima (osim rudnika) (IEC 61241-17:2005; EN 61241-17:2005)  
Electrical apparatus for use in the presence of combustible dust – Part 17: Inspection and maintenance of electrical installations in hazardous areas (other than mines) (IEC 61241-17:2005; EN 61241-17:2005)  
- zamijenjena s: HRN EN 60079-17:2008
- HRN EN 61779-1:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 1. dio: Opći zahtjevi i ispitne metode (IEC 61779-1:1998 (Preinačena); EN 61779-1:2000)  
Electrical apparatus for the detection and measurement of combustible gases – Part 1: General requirements and test methods (IEC 61779-1:1998 (Modified); EN 61779-1:2000)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN EN 61779-1/A11:2006 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 1. dio: Opći zahtjevi i ispitne metode (EN 61779-1:2000/A11:2004)  
Electrical apparatus for the detection and measurement of combustible gases – Part 1: General requirements and test methods (EN 61779-1:2000/A11:2004)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN EN 61779-2:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 2. dio: Zahtjevi za pogonska svojstva uređaja I. skupine koji pokazuju volumni udio do 5 % metana u zraku (IEC 61779-2:1998 (Preinačena); EN 61779-2:2000)  
Electrical apparatus for the detection and measurement of combustible gases – Part 2: Performance requirements for Group I apparatus indicating a volume fraction up to 5 % methane in air (IEC 61779-2:1998 (Modified); EN 61779-2:2000)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN EN 61779-3:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 3. dio: Zahtjevi za pogonska svojstva uređaja I. skupine koji pokazuju volumni udio do 100 % metana u zraku (IEC 61779-3:1998 (Preinačena); EN 61779-3:2000)  
Electrical apparatus for the detection and measurement of combustible gases – Part 3: Performance requirements for Group I apparatus indicating a volume fraction up to 100 % methane in air (IEC 61779-3:1998 (Modified); EN 61779-3:2000)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN EN 61779-4:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 4. dio: Zahtjevi za pogonska svojstva uređaja II. skupine koji pokazuju volumni udio do 100 % donje granice eksplozivnosti (IEC 61779-4:1998 (Preinačena); EN 61779-4:2000)  
Electrical apparatus for the detection and measurement of combustible gases – Part 4: Performance requirements for Group II apparatus indicating a volume fraction up to 100 % lower explosive limit (IEC 61779-4:1998 (Modified); EN 61779-4:2000)  
- zamijenjena s: HRN EN 60079-29-1:2008

- HRN EN 61779-5:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 5. dio: Zahtjevi za pogonska svojstva uređaja II. skupine koji pokazuju volumni udio do 100 % plina (IEC 61779-5:1998 (Preinačena); EN 61779-5:2000)  
Electrical apparatus for the detection and measurement of combustible gases – Part 5: Performance requirements for Group II apparatus indicating a volume fraction up to 100 % gas (IEC 61779-5:1998 (Modified); EN 61779-5:2000)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN IEC 61779-6:2003 en  
Električni uređaji za otkrivanje i mjerenje zapaljivih plinova – 6. dio: Upute za izbor, instalaciju, uporabu i održavanje uređaja za otkrivanje i mjerenje zapaljivih plinova (IEC 61779-6:1999)  
Electrical apparatus for the detection and measurement of combustible gases – Part 6: Guide for selection, installation, use and maintenance of apparatus for the detection and measurement of flammable gases (IEC 61779-6:1999)  
- zamijenjena s: HRN EN 60079-29-1:2008
- HRN EN 62086-1:2007 en  
Električni uređaji za eksplozivne plinske atmosfere – Električni trakasti grijači – 1. dio: Opći zahtjevi i zahtjevi za ispitivanje (IEC 62086-1:2001+Corr.2003; EN 62086-1:2005)  
Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 1: General and testing requirements (IEC 62086-1:2001+Corr.2003; EN 62086-1:2005)  
- zamijenjena s: HRN EN 60079-30-1:2007
- HRN EN 62086-2:2007 en  
Električni uređaji za eksplozivne plinske atmosfere – Električni trakasti grijači – 2. dio: Upute za izvedbu, instalaciju i održavanje (IEC 62086-2:2001; EN 62086-2:2005)  
Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 2: Application guide for design, installation and maintenance (IEC 62086-2:2001; EN 62086-2:2005)  
- zamijenjena s: HRN EN 60079-30-2:2007

### **HZN/TO E64, Električne instalacije i zaštita od električnog udara**

- HRN IEC 60050-826:1999 hr,en,fr  
Međunarodni elektrotehnički rječnik – 826. poglavlje: Električne instalacije zgrada (IEC 60050-826:1982+A1:1990+A2:1995)  
International Electrotechnical Vocabulary – Chapter 826: Electrical installations of buildings (IEC 60050-826:1982+A1:1990+A2:1995)  
- zamijenjena s: HRN IEC 60050-826:2012
- HRN IEC/TR 60479-4:2007 en  
Učinci struje na ljude i domaće životinje – 4. dio: Učinci udara munje na ljude i domaće životinje (IEC/TR 60479-4:2004)  
Effects of current on human beings and livestock – Part 4: Effects of lightning strokes on human beings and livestock (IEC/TR 60479-4:2004)  
- zamijenjena s: HRI IEC/TR 60479-4:2012

### **HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

- HRN EN 957-6:2005 en  
Oprema za vježbanje – 6. dio: Pokretne trake za trčanje, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (EN 957-6:2001)  
Stationary training equipment – Part 6: Treadmills, additional specific safety requirements and test methods (EN 957-6:2001)  
- zamijenjena s: HRN EN 957-6:2012

- HRN ISO 5355:2004 en  
Skijaške cipele (pancerice) za alpsko skijanje – Sigurnosni zahtjevi i metode ispitivanja (ISO 5355:1997)  
Alpine ski-boots – Safety requirements and test methods (ISO 5355:1997)  
- zamijenjena s: HRN ISO 5355:2012
- HRN ISO 7331:2004 en  
Skijaški štapovi za alpsko skijanje – Sigurnosni zahtjevi i metode ispitivanja (ISO 7331:1990)  
Ski-poles for alpine skiing – Safety requirements and test methods (ISO 7331:1990)  
- zamijenjena s: HRN ISO 7331:2012
- HRN ISO 8364:2005 en  
Skije za alpsko skijanje i vezovi – Površina za montažu veza – Zahtjevi i metode ispitivanja (ISO 8364: 1999)  
Alpine skis and bindings – Binding mounting area – Requirements and test methods (ISO 8364: 1999)  
- zamijenjena s: HRN ISO 8364:2012
- HRN ISO 9462:2004 en  
Skijaški vezovi za alpsko skijanje – Sigurnosni zahtjevi i metode ispitivanja (ISO 9462:1993+Cor 1:1993+Amd 1:2002)  
Alpine ski-bindings – Safety requirements and test methods (ISO 9462:1993+Cor 1:1993+Amd 1:2002)  
- zamijenjena s: HRN ISO 9462:2012
- HRN ISO 9838:2004 en  
Skijaški vezovi za alpsko skijanje – Ispitni potplat za ispitivanje skijaških vezova (ISO 9838:1991)  
Alpine ski-bindings – Test soles for ski-binding test (ISO 9838:1991)  
- zamijenjena s: HRN ISO 9838:2012
- HRN EN 13089:2008 en  
Mountaineering equipment – Ice-tools – Safety requirements and test methods (EN 13089:1999)  
- zamijenjena s: HRN EN 13089:2012
- HRN EN 13451-1:2008 en  
Swimming pool equipment – Part 1: General safety requirements and test methods (EN 13451-1:2001)  
- zamijenjena s: HRN EN 13451-1:2012
- HRN EN 13451-3:2008 en  
Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for pool fittings for water treatment purposes (EN 13451-3:2001)  
- zamijenjena s: HRN EN 13451-3:2012
- HRN EN 15649-1:2010 en  
Floating leisure articles for use on and in the water – Part 1: Classification, materials, general requirements and test methods (EN 15649-1:2009)  
- zamijenjena s: HRN EN 15649-1:2012
- HRN EN 15649-2:2010 en  
Floating leisure articles for use on and in the water – Part 2: Consumer information (EN 15649-2:2009)  
- zamijenjena s: HRN EN 15649-2:2012
- HRN EN 15649-3:2010 en  
Floating leisure articles for use on and in the water – Part 3: Additional specific safety requirements and test methods for Class A devices (EN 15649-3:2009)  
- zamijenjena s: HRN EN 15649-3:2012
- HRN EN 15649-4:2010 en  
Floating leisure articles for use on and in the water – Part 4: Additional specific safety requirements and test methods for Class B devices (EN 15649-4:2010)  
- zamijenjena s: HRN EN 15649-4:2012

### **HZN/TU I2, Strojstvo 2**

- HRN EN 474-4:2009 en  
Earth-moving machinery – Safety – Part 4: Requirements for backhoe loaders (EN 474-4:2006+A1:2009)  
- zamijenjena s: HRN EN 474-4:2012

HRN EN 474-5:2009 en  
Earth-moving machinery — Safety — Part 5:  
Requirements for hydraulic excavators  
(EN 474-5:2006+A1:2009)  
- zamijenjena s: HRN EN 474-5:2012

### **HZN/TU N1, Nemetalni materijali 1**

HRN EN ISO 12677:2008 en  
Chemical analysis of refractory products by XRF —  
Fused cast bead method (ISO 12677:2003;  
EN ISO 12677:2003)  
- zamijenjena s: HRN EN ISO 12677:2012

### **HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**

HRN EN ISO 7439:2011 en  
Copper-bearing intra-uterine contraceptive devices  
— Requirements, tests (ISO 7439:2002;  
EN ISO 7439:2009)  
- zamijenjena s: HRN EN ISO 7439:2012

### **HZN/TU V1, Elektronika 1**

HRN EN 50065-1:1997 en  
Signalizacija na niskonaponskim električnim  
instalacijama u frekventijskom opsegu 3 kHz do  
148,5 kHz — 1. dio: Opći zahtjevi, frekventijski pojasi  
i elektromagnetske smetnje  
(EN 50065-1:1991+A1:1992+A2:1995+A3:1996)  
Signaling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz — Part 1: General  
requirements, frequency bands and electromagnetic  
disturbances  
(EN 50065-1:1991+A1:1992+A2:1995+A3:1996)  
- zamijenjena s: HRN EN 50065-1:2003

### **HZN/TU W1, Energetska elektrotehnika 1**

HRN EN 61029-2-1:2008 en  
Sigurnost prijevoznih elektromotornih alata — Dio 2-1:  
Posebni zahtjevi za stolne kružne pile  
(IEC 61029-2-1:1993, MOD+am1:1999+am2:2001;  
EN 61029-2-1:2002)  
Safety of transportable motor-operated electric tools —  
Part 2-1: Particular requirements for circular saw benches  
(IEC 61029-2-1:1993, MOD+am1:1999+am2:2001;  
EN 61029-2-1:2002)  
- zamijenjena s: HRN EN 61029-2-1:2012

HRN EN 61029-2-8:2008 en  
Sigurnost prijevoznih elektromotornih alata —  
Dio 2-8: Posebni zahtjevi za jednovretenaste  
okomite stolne glodalice (IEC 61029-2-8:1995,  
MOD+am1:1999+am2:2001; EN 61029-2-8:2003)  
Safety of transportable motor-operated electric  
tools — Part 2-8: Particular requirements for single  
spindle vertical moulders (IEC 61029-2-8:1995,  
MOD+am1:1999+am2:2001; EN 61029-2-8:2003)  
- zamijenjena s: HRN EN 61029-2-8:2012

## **1.5 Povučeni nacrti hrvatskih norma**

### **HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama**

nHRN EN 55014-1 hr pp  
Elektromagnetska kompatibilnost — Zahtjevi za  
kućanske uređaje, električne alate i slične uređaje — 1.  
dio: Emisija (CISPR 14-1:2000+am1:2001+am2:2002;  
EN 55014-1:2000+A1:2001+A2:2002)  
Electromagnetic compatibility — Requirements for  
household appliances, electric tools and similar  
apparatus — Part 1: Emission (CISPR14-1:2000+am1:2001  
+am2:2002; EN 55014-1:2000+A1:2001+A2:2002)

## **1.6 Ispravci hrvatskih norma**

### **HZN/TO 44, Zavarivanje i srodni postupci**

#### **• umjesto**

HRN EN 15614-8:2003  
Specifikacija i odobravanje postupaka zavarivanja za  
metalne materijale — Ispitivanje postupka zavarivanja  
— 8. dio: Zavarivanje cijevi na cijevnu stijenu  
(ISO 15614-8:2002; EN ISO 15614-8:2002)  
Specification and approval of welding procedures for  
metallic materials — Welding procedure test — Part 8:  
Welding of tubes to tube-plate joints  
(ISO 15614-8:2002; EN ISO 15614-8:2002)

#### **• treba biti**

HRN EN 15614-8:2003  
Specifikacija i kvalifikacija postupaka zavarivanja za  
metalne materijale — Ispitivanje postupka zavarivanja  
— 8. dio: Zavarivanje cijevi na cijevnu stijenu  
(ISO 15614-8:2002; EN ISO 15614-8:2002)  
Specification and qualification of welding procedures  
for metallic materials — Welding procedure test — Part 8:  
Welding of tubes to tube-plate joints  
(ISO 15614-8:2002; EN ISO 15614-8:2002)

#### **• umjesto**

HRN EN 15614-11:2003  
Specifikacija i odobravanje postupaka zavarivanja za  
metalne materijale — Ispitivanje postupka zavarivanja  
— 11. dio: Zavarivanje elektronskim snopom i laserom  
(ISO 15614-11:2002; EN ISO 15614-11:2002)  
Specification and approval of welding procedures for  
metallic materials — Welding procedure test — Part 11:  
Electron and laser beam welding (ISO 15614-11:2002;  
EN ISO 15614-11:2002)

#### **• treba biti**

HRN EN 15614-11:2003  
Specifikacija i kvalifikacija postupaka zavarivanja za  
metalne materijale — Ispitivanje postupka zavarivanja  
— 11. dio: Zavarivanje elektronskim snopom i laserom  
(ISO 15614-11:2002; EN ISO 15614-11:2002)  
Specification and qualification of welding procedures  
for metallic materials — Welding procedure test —  
Part 11: Electron and laser beam welding  
(ISO 15614-11:2002; EN ISO 15614-11:2002)

### **HZN/TO 217, Kozmetika**

#### **• umjesto**

HRN EN ISO 18415:2011  
Kozmetika — Mikrobiologija — Određivanje specifičnih  
i nespecifičnih mikroorganizama (ISO 18415:2007;  
EN ISO 18415:2011)  
Cosmetics — Microbiology — Detection of specified  
and non-specified microorganisms (ISO 18415:2007;  
EN ISO 18415:2011)

#### **• treba biti**

HRN EN ISO 18415:2011  
Kozmetika — Mikrobiologija — Dokazivanje specifičnih  
i nespecifičnih mikroorganizama (ISO 18415:2007;  
EN ISO 18415:2011)  
Cosmetics — Microbiology — Detection of specified  
and non-specified microorganisms (ISO 18415:2007;  
EN ISO 18415:2011)

### **HZN/TO T4, Normizacija u telekomunikacijama**

#### **• umjesto**

HRN EN 300 373-1 V1.3.1:2011  
Elektromagnetska kompatibilnost i radiospektar (ERM)  
— Pomorski pokretni odašiljači i prijemnici za uporabu  
u MF i HF frekventijskom pojasu — 1. dio: Tehničke  
karakteristike i metode mjerenja  
(EN 300 373-1 V1.3.1:2010)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime mobile transmitters and receivers for use in the MF and HF bands – Part 1: Technical characteristics and methods of measurement (EN 300 373-1 V1.3.1:2010)

• **treba biti**

HRN EN 300 373-1 V1.3.1:2011

Elektromagnetska kompatibilnost i radiospektar (ERM) – Pomorski pokretni odašiljači i prijemnici za uporabu u MF i HF frekvencijskom pojasu – 1. dio: Tehničke karakteristike i metode mjerenja (EN 300 373-1 V1.3.1:2011)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime mobile transmitters and receivers for use in the MF and HF bands – Part 1: Technical characteristics and methods of measurement (EN 300 373-1 V1.3.1:2011)

• **umjesto**

HRN EN 300 609-4 V9.2.0:2011

Globalni sustav pokretnih komunikacija (GSM) – 4. dio: Harmonizirana EN norma za GSM repetitore obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 300 609-4 V9.2.0:2010)  
Global System for Mobile communications (GSM) – Part 4: Harmonized EN for GSM Repeaters covering the essential requirements of article 3.2 of the R&TTE Directive (EN 300 609-4 V9.2.0:2010)

• **treba biti**

HRN EN 300 609-4 V9.2.1:2011

Globalni sustav pokretnih komunikacija (GSM) – 4. dio: Harmonizirana EN norma za GSM repetitore obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 300 609-4 V9.2.1:2010)  
Global System for Mobile communications (GSM) – Part 4: Harmonized EN for GSM Repeaters covering the essential requirements of article 3.2 of the R&TTE Directive (EN 300 609-4 V9.2.1:2010)

• **umjesto**

HRN EN 301 502 V9.2.0:2011

Globalni sustav pokretnih komunikacija (GSM) – Harmonizirana EN norma za opremu bazne postaje obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 301 502 V9.2.0:2010)  
Global System for Mobile communications (GSM) – Harmonized EN for Base Station Equipment covering the essential requirements of article 3.2 of the R&TTE Directive (EN 301 502 V9.2.0:2010)

• **treba biti**

HRN EN 301 502 V9.2.1:2011

Globalni sustav pokretnih komunikacija (GSM) – Harmonizirana EN norma za opremu bazne postaje obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 301 502 V9.2.1:2010)  
Global System for Mobile communications (GSM) – Harmonized EN for Base Station Equipment covering the essential requirements of article 3.2 of the R&TTE Directive (EN 301 502 V9.2.1:2010)

• **umjesto**

HRN EN 305 550-2 V1.1.1:2011

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekvencijskom području od 40 GHz do 246 GHz – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 305 550-2 V1.1.1:2010)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 40 GHz to 246 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 305 550-2 V1.1.1:2010)

• **treba biti**

HRN EN 305 550-2 V1.1.1:2011

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekvencijskom području od 40 GHz do 246 GHz – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 305 550-2 V1.1.1:2011)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 40 GHz to 246 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 305 550-2 V1.1.1:2011)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

Te su hrvatske norme ranije objavljene samo s naslovima na engleskome jeziku pa se sada objavljuju njihovi naslovi na hrvatskome jeziku.

### HZN/TO E34, *Žarulje, svjetiljke i pripadna oprema*

HRN EN 60400:2009

Grla za fluorescentne cijevi i startere (IEC 60400:2008; EN 60400:2008)  
Lampholders for tubular fluorescent lamps and starterholders (IEC 60400:2008; EN 60400:2008)

HRN EN 61184:2009

Bajunetna grla za žarulje (IEC 61184:2008; EN 61184:2008)  
Bayonet lampholders (IEC 61184:2008; EN 61184:2008)

HRN EN 60061-1:2008/A40:2008

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am40:2008; EN 60061-1:1993/A40:2008)

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am40:2008; EN 60061-1:1993/A40:2008)

HRN EN 60061-2:2008/A37:2008

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am37:2008; EN 60061-2:1993/A37:2008)

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am37:2008; EN 60061-2:1993/A37:2008)

HRN EN 61347-1:2009

Predspojne naprave – 1. dio: Opći i sigurnosni zahtjevi (IEC 61347-1:2007, MOD; EN 61347-1:2008)  
Lamp controlgear – Part 1: General and safety requirements (IEC 61347-1:2007, MOD; EN 61347-1:2008)

HRN EN 60061-4:2008/A11:2008

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 4. dio: Smjernice i opće informacije (IEC 60061-4:1990/am11:2007; EN 60061-4:1992/A11:2007)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990/am11:2007; EN 60061-4:1992/A11:2007)

HRN EN 60927:2009

Pribor za žarulje – Propaljivači (osim tinjavih startera) – Izvedbeni zahtjevi (IEC 60927:2007; EN 60927:2007)  
Auxiliaries for lamps – Starting devices (other than glow starters) – Performance requirements (IEC 60927:2007; EN 60927:2007)

- HRN EN 60061-2:2008/A36:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am36:2007; EN 60061-2:1993/A36:2007)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am36:2007; EN 60061-2:1993/A36:2007)
- HRN EN 60061-3:2008/A38:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am38:2007; EN 60061-3:1993/A38:2007)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am38:2007; EN 60061-3:1993/A38:2007)
- HRN EN 60061-3:2008/A37:2008  
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- HRN EN 60061-2:2008/A35:2008  
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- HRN EN 62034:2008  
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Automatic test systems for battery powered emergency escape lighting (IEC 62034:2006; EN 62034:2006)
- HRN EN 61347-2-7:2009  
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- HRN EN 62384:2008  
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- HRN EN 60061-4:2008/A10:2008  
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- HRN EN 60061-2:2008/A34:2008  
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- HRN EN 60061-3:2008/A36:2008  
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- HRN EN 60598-2-13:2008  
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- HRN EN 61347-2-13:2008  
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- HRN EN 60838-2-2:2008  
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- HRN EN 61048:2009  
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- HRN EN 60598-2-12:2008  
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- HRN EN 60929:2009  
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- HRN EN 60061-2:2008/A33:2008  
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- HRN EN 60061-3:2008/A35:2008  
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- HRN EN 60923:2008  
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- HRN EN 61347-2-12:2008  
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Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-12:2005; EN 61347-2-12:2005)
- HRN EN 60598-2-11:2008  
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- HRN EN 50107-2:2008  
Oznake i instalacije za svjetleće cijevi s izbojem koje rade na nazivnome naponu koji u neopterećenome stanju iznosi između 1 kV i 10 kV – 2. dio: Zahtjevi za zaštitne uređaje protiv zemljospoja i otvorenoga kruga (EN 50107-2:2005)  
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- HRN EN 60061-4:2008/A9:2008  
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- HRN EN 60061-2:2008/A32:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am32:2004; EN 60061-2:1993/A32:2005)  
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- HRN EN 60061-3:2008/A34:2008  
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- HRN EN 60921:2009  
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- HRN EN 60238:2008  
Grla za žarulje s Edisonovim navojem (IEC 60238:2004+am1:2008; EN 60238:2004+A1:2008)  
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- HRN EN 60838-1:2008  
Raznovrsna grla za žarulje – 1. dio: Opći zahtjevi i ispitivanja (IEC 60838-1:2004; EN 60838-1:2004+A1:2008)  
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- HRN EN 60399:2008  
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- HRN EN 60598-1:2008  
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- HRN EN 61047:2009  
Elektronički niskonaponski pretvarači koji se napajaju istosmjernom ili izmjeničnom strujom namijenjeni žaruljama sa žarnom niti – Izvedbeni zahtjevi (IEC 61047:2004; EN 61047:2004)  
DC or AC supplied electronic step-down convertors for filament lamps – Performance requirements (IEC 61047:2004; EN 61047:2004)
- HRN EN 60061-3:2008/A33:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am33:2004; EN 60061-3:1993/A33:2004)  
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- HRN EN 60061-2:2008/A31:2008  
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- HRN EN 60929:2008  
Elektroničke prigušnice koje se napajaju izmjeničnom strujom namijenjene fluorescentnim cijevima – Izvedbeni zahtjevi (IEC 60929:2003; EN 60929:2004)  
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- HRN EN 60061-3:2008/A32:2008  
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- HRN EN 60061-2:2008/A30:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am30:2003; EN 60061-2:1993/A30:2003)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am30:2003; EN 60061-2:1993/A30:2003)
- HRN EN 60598-2-10:2008  
Svjetiljke – Dio 2-10: Posebni zahtjevi – Prijenosne svjetiljke za djecu (IEC 60598-2-10:2003; EN 60598-2-10:2003)  
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- HRN EN 60570:2009  
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Electrical supply track systems for luminaires (IEC 60570:2003, MOD; EN 60570:2003)
- HRN EN 60598-2-3:2009  
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- HRN EN 50107-1:2008  
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- HRN EN 61347-2-11:2008  
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- HRN EN 61347-2-8:2008  
Predspojne naprave – Dio 2-8: Posebni zahtjevi za prigušnice namijenjene fluorescentnim cijevima (IEC 61347-2-8:2000+am1:2006; EN 61347-2-8:2001+A1:2006)  
Lamp controlgear – Part 2-8: Particular requirements for ballasts for fluorescent lamps (IEC 61347-2-8:2000+am1:2006; EN 61347-2-8:2001+A1:2006)
- HRN EN 61347-2-9:2008  
Predspojne naprave – Dio 2-9: Posebni zahtjevi za prigušnice namijenjene žaruljama s izbojem (osim fluorescentnih cijevi) (IEC 61347-2-9:2000+am1:2003+am2:2006; EN 61347-2-9:2001+A1:2003+A2:2006)  
Lamp controlgear – Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-9:2000+am1:2003+am2:2006; EN 61347-2-9:2001+A1:2003+A2:2006)
- HRN EN 61347-2-10:2008  
Predspojne naprave – Dio 2-10: Posebni zahtjevi za elektroničke invertore i pretvarače namijenjene za rad na visokim frekvencijama cijevi s hladnim startom i izbijanjem (IEC 61347-2-10:2000; EN 61347-2-10:2001)  
Lamp controlgear – Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) (IEC 61347-2-10:2000; EN 61347-2-10:2001)
- HRN EN 61347-2-6:2008  
Posebni zahtjevi za elektroničke prigušnice koje se napajaju istosmjernom strujom namijenjene rasvjeti u zrakoplovima (IEC 61347-2-6:2000; EN 61347-2-6:2001)  
Lamp controlgear – Part 2-6: Particular requirements for d.c. supplied electronic ballasts for aircraft lighting (IEC 61347-2-6:2000; EN 61347-2-6:2001)
- HRN EN 61347-2-4:2008  
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- HRN EN 61347-2-5:2008  
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Lamp controlgear – Part 2-5: Particular requirements for d.c. supplied electronic ballasts for public transport lighting (IEC 61347-2-5:2000; EN 61347-2-5:2001)
- HRN EN 61347-2-3:2008  
Predspojne naprave – Dio 2-3: Posebni zahtjevi za elektroničke prigušnice koje se napajaju izmjeničnom strujom namijenjene fluorescentnim cijevima (IEC 61347-2-3:2000+am1:2004+am2:2006; EN 61347-2-3:2001+A1:2004+A2:2006)  
Lamp controlgear – Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps (IEC 61347-2-3:2000+am1:2004+am2:2006; EN 61347-2-3:2001+A1:2004+A2:2006)
- HRN EN 61347-2-2:2008  
Predspojne naprave – Dio 2-2: Posebni zahtjevi za niskonaponske pretvarače koji se napajaju istosmjernom ili izmjeničnom strujom namijenjene žaruljama sa žarnom niti (IEC 61347-2-2:2000+am1:2005+am2:2006; EN 61347-2-2:2001+A1:2006+A2:2006)  
Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2:2000+am1:2005+am2:2006; EN 61347-2-2:2001+A1:2006+A2:2006)
- HRN EN 61347-2-1:2008  
Predspojne naprave – Dio 2-1: Posebni zahtjevi za propaljivače (osim tinjavih startera) (IEC 61347-2-1:2000+am1:2005; EN 61347-2-1:2001+A1:2006)  
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- HRN EN 60598-2-24:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 24. poglavlje: Svjetiljke s ograničenim površinskim temperaturama (IEC 60598-2-24:1997, MOD; EN 60598-2-24:1998)  
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- HRN EN 50294:2008  
Metoda mjerenja ukupne ulazne snage u spojevima žarulje i prigušnice (EN 50294:1998+A1:2001+A2:2003)  
Measurement method of total input power of ballast-lamp circuits (EN 50294:1998+A1:2001+A2:2003)
- HRN EN 60598-2-5:2008  
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- HRN EN 60598-2-20:2008  
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Luminaires – Part 2-20: Particular requirements – Lighting chains (IEC 60598-2-20:1996, MOD+am1:1998, MOD+am2:2002, MOD; EN 60598-2-20:1997+A1:1998+A2:2004)
- HRN EN 60598-2-4:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 4. poglavlje: Prijenosne svjetiljke za opću uporabu (IEC 60598-2-4:1997; EN 60598-2-4:1997)  
Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaires (IEC 60598-2-4:1997; EN 60598-2-4:1997)
- HRN EN 60598-2-8:2008  
Svjetiljke – Dio 2-8: Posebni zahtjevi – Ručne svjetiljke (IEC 60598-2-8:1996, MOD+am1:2000+am2:2007; EN 60598-2-8:1997+A1:2000+A2:2008)  
Luminaires – Part 2-8: Particular requirements – Handlamps (IEC 60598-2-8:1996, MOD+am1:2000+am2:2007; EN 60598-2-8:1997+A1:2000+A2:2008)
- HRN EN 60598-2-7:2008/A13:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 7. poglavlje: Prijenosne svjetiljke za vrtu uporabu (EN 60598-2-7:1989/A13:1997)  
Luminaires – Part 2: Particular requirements – Section 7: Portable luminaires for garden use (EN 60598-2-7:1989/A13:1997)
- HRN EN 60838-2-1:2008  
Raznovrsna grla za žarulje – 2. dio: Posebni zahtjevi – 1. poglavlje: Grla S14 (IEC 60838-2-1:1994+am1:1998+am2:2004; EN 60838-2-1:1996+A1:1998+A2:2004)  
Miscellaneous lampholders – Part 2: Particular requirements – Section 1: Lampholders S14 (IEC 60838-2-1:1994+am1:1998+am2:2004; EN 60838-2-1:1996+A1:1998+A2:2004)
- HRN EN 60598-2-23:2008  
Svjetiljke – Dio 2-23: Posebni zahtjevi – Sustavi vrlo niskog napona za žarulje sa žarnom niti (IEC 60598-2-23:1996+am1:2000; EN 60598-2-23:1996+A1:2000)  
Luminaires – Part 2-23: Particular requirements – Extra low-voltage lighting systems for filament lamps (IEC 60598-2-23:1996+am1:2000; EN 60598-2-23:1996+A1:2000)
- HRN EN 60598-2-2:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 2. poglavlje: Ukopane svjetiljke (IEC 60598-2-2:1996+am1:1997; EN 60598-2-2:1996+A1:1997)  
Luminaires – Part 2: Particular requirements – Section 2: Recessed luminaires (IEC 60598-2-2:1996+am1:1997; EN 60598-2-2:1996+A1:1997)
- HRN EN 60923:2008  
Pribor za žarulje – Prigušnice za žarulje s izbojem (osim fluorescentnih cijevi) – Izvedbeni zahtjevi (IEC 60923:1995+am1:2001; EN 60923:1996+A1:2001)  
Auxiliaries for lamps – Ballasts for discharge lamps (excluding tubular fluorescent lamps) – Performance requirements (IEC 60923:1995+am1:2001; EN 60923:1996+A1:2001)
- HRN EN 60598-2-25:2008  
Svjetiljke – Dio 2-25: Posebni zahtjevi – Svjetiljke namijenjene uporabi u kliničkim dijelovima bolnica i zgrada za zdravstvenu zaštitu (IEC 60598-2-25:1994+Corr.1:1994+am1:2004; EN 60598-2-25:1994+A1:2004)  
Luminaires – Part 2-25: Particular requirements – Luminaires for use in clinical areas of hospitals and health care buildings (IEC 60598-2-25:1994+Corr.1:1994+am1:2004; EN 60598-2-25:1994+A1:2004)
- HRN EN 60598-2-6:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 6. poglavlje: Svjetiljke s ugrađenim transformatorima ili pretvaračima za žarulje sa žarnom niti (IEC 60598-2-6:1994+am1:1996; EN 60598-2-6:1994+A1:1997)  
Luminaires – Part 2: Particular requirements – Section 6: Luminaires with built-in transformers or convertors for filament lamps (IEC 60598-2-6:1994+am1:1996; EN 60598-2-6:1994+A1:1997)
- HRN EN 61049:2008  
Kondenzatori za uporabu u spojevima s fluorescentnim cijevima i drugim žaruljama s izbojem – Izvedbeni zahtjevi (IEC 61049:1991, MOD+Corr.1:1992; EN 61049:1993)  
Capacitors for use in tubular fluorescent and other discharge lamp circuits – Performance requirements (IEC 61049:1991, MOD+Corr.1:1992; EN 61049:1993)
- HRN EN 60061-2:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969, MOD+IEC 60061-2H:1987, MOD+IEC 60061-2I:1990, MOD+IEC 60061-2K:1992, MOD+IEC 60061-2L:1994+IEC 60061-2M:1994+IEC 60061-2N:1995+IEC 60061-2P:1996+IEC 60061-2Q:1996+IEC 60061-2R:1996+IEC 60061-2S:1997+am18:1998+am19:1999+am20:1999+am21:2000+am22:2001+am23:2001+am24:2001+am25:2002+am26:2002+am27:2002+am28:2003+am29:2003; EN 60061-2:1993+A1:1995+A2:1995+A3:1995+A4:1996+A5:1996+A6:1996+A7:1997+A18:1998+A19:1999+A20:1999+A21:2000+A22:2001+A23:2001+A24:2001+A25:2002+A26:2002+A27:2002+A28:2003+A29:2003)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969, MOD+IEC 60061-2H:1987, MOD+IEC 60061-2I:1990, MOD+IEC 60061-2K:1992, MOD+IEC 60061-2L:1994+IEC 60061-2M:1994+IEC 60061-2N:1995+IEC 60061-2P:1996+IEC 60061-2Q:1996+IEC 60061-2R:1996+IEC 60061-2S:1997+am18:1998+am19:1999+am20:1999+am21:2000+am22:2001+am23:2001+am24:2001+am25:2002+am26:2002+am27:2002+am28:2003+am29:2003; EN 60061-2:1993+A1:1995+A2:1995+A3:1995+A4:1996+A5:1996+A6:1996+A7:1997+A18:1998+A19:1999+A20:1999+A21:2000+A22:2001+A23:2001+A24:2001+A25:2002+A26:2002+A27:2002+A28:2003+A29:2003)
- HRN EN 60061-3:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969, MOD+IEC 60061-3M:1992, MOD+IEC 60061-3N:1994+IEC 60061-3P:1994+IEC 60061-3Q:1995+IEC 60061-3R:1996+IEC 60061-3S:1996+IEC 60061-3T:1996+IEC 60061-3U:1997+am20:1998+am21:1999+am22:1999+am23:2000+am24:2001+am25:2001+am26:2001+am27:2002+am28:2002+am29:2002+am30:2003+am31:2003; EN 60061-3:1993+A1:1995+A2:1995+A3:1995+A4:1996+A5:1996+A6:1996+A7:1997+A20:1998+A21:1999+A22:1999+A23:2000+A24:2001+A25:2001+A26:2001+A27:2002+A28:2002+A29:2002+A30:2003+A31:2003)

- Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969, MOD+IEC 60061-3M:1992, MOD+IEC 60061-3N:1994+IEC 60061-3P:1994+IEC 60061-3Q:1995+IEC 60061-3R:1996+IEC 60061-3S:1996+IEC 60061-3T:1996+IEC 60061-3U:1997+am20:1998+am21:1999+am22:1999+am23:2000+am24:2001+am25:2001+am26:2001+am27:2002+am28:2002+am29:2002+am30:2003+am31:2003; EN 60061-3:1993+A1:1995+A2:1995+A3:1995+A4:1996+A5:1996+A6:1996+A7:1997+A20:1998+A21:1999+A22:1999+A23:2000+A24:2001+A25:2001+A26:2001+A27:2002+A28:2002+A29:2002+A30:2003+A31:2003)
- HRN EN 60061-4:2008  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 4. dio: Smjernice i opće informacije (IEC 60061-4:1990, MOD+IEC 60061-4A:1992+IEC 60061-4B:1994+IEC 60061-4C:1994+IEC 60061-4D:1995+am5:1998+am6:2000+am7:2001+am8:2003; EN 60061-4:1992+A1:1995+A2:1995+A3:1995+A5:1998+A6:2000+A7:2001+A8:2003)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990, MOD+IEC 60061-4A:1992+IEC 60061-4B:1994+IEC 60061-4C:1994+IEC 60061-4D:1995+am5:1998+am6:2000+am7:2001+am8:2003; EN 60061-4:1992+A1:1995+A2:1995+A3:1995+A5:1998+A6:2000+A7:2001+A8:2003)
- HRN EN 61050:2008  
Transformatori za svjetleće cijevi s izbojem čiji je izlazni napon u neopterećenome stanju veći od 1 kV (neonski transformatori) – Opći i sigurnosni zahtjevi (IEC 61050:1991, MOD+Corr.1:1992+am1:1994, MOD; EN 61050:1992+A1:1995)  
Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 kV (generally called neon-transformers) – General and safety requirements (IEC 61050:1991, MOD+Corr.1:1992+am1:1994, MOD; EN 61050:1992+A1:1995)
- HRN EN 60925:2008  
Elektroničke prigušnice koje se napajaju istosmjernom strujom namijenjene fluorescentnim cijevima – Izvedbeni zahtjevi (IEC 60925:1989+am1:1996+am2:2001; EN 60925:1991+A1:1996+A2:2001)  
D.C. supplied electronic ballasts for tubular fluorescent lamps – Performance requirements (IEC 60925:1989+am1:1996+am2:2001; EN 60925:1991+A1:1996+A2:2001)
- HRN EN 60598-2-19:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 19. poglavlje: Svjetiljke s protokom zraka (sigurnosni zahtjevi) (IEC 60598-2-19:1981, MOD+am1:1987, MOD; EN 60598-2-19:1989+A2:1998)  
Luminaires – Part 2: Particular requirements – Section 19: Air-handling luminaires (safety requirements) (IEC 60598-2-19:1981, MOD+am1:1987, MOD; EN 60598-2-19:1989+A2:1998)
- HRN EN 60598-2-7:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 7. poglavlje: Prijenosne svjetiljke za vrtnu uporabu (IEC 60598-2-7:1982, MOD+am1:1987, MOD+am2:1994, MOD; EN 60598-2-7:1989+A2:1996)  
Luminaires – Part 2: Particular requirements – Section 7: Portable luminaires for garden use (IEC 60598-2-7:1982, MOD+am1:1987, MOD+am2:1994, MOD; EN 60598-2-7:1989+A2:1996)
- HRN EN 60598-2-17:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 17. poglavlje: Svjetiljke za osvjetljavanje pozornica i televizijskih, filmskih i fotografskih studija (otvorenih i zatvorenih) (IEC 60598-2-17:1984+am1:1987+am2:1990; EN 60598-2-17:1989+A2:1991)
- Luminaires – Part 2: Particular requirements – Section 17: Luminaires for stage lighting, television film and photographic studios (outdoor and indoor) (IEC 60598-2-17:1984+am1:1987+am2:1990; EN 60598-2-17:1989+A2:1991)
- HRN EN 60598-2-9:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 9. poglavlje: Fotografske i filmske svjetiljke (amaterske) (IEC 60598-2-9:1987+am1:1993; EN 60598-2-9:1989+A1:1994)  
Luminaires – Part 2: Particular requirements – Section 9: Photo and film luminaires (non-professional) (IEC 60598-2-9:1987+am1:1993; EN 60598-2-9:1989+A1:1994)
- HRN EN 60598-2-1:2008  
Svjetiljke – 2. dio: Posebni zahtjevi – 1. poglavlje: Fiksne svjetiljke za opću uporabu (IEC 60598-2-1:1979+am1:1987; EN 60598-2-1:1989)  
Luminaires – Part 2: Particular requirements – Section 1: Fixed general purpose luminaires (IEC 60598-2-1:1979+am1:1987; EN 60598-2-1:1989)
- HRN EN 61228:2009  
Ultraljubičaste fluorescentne žarulje za sunčanje – Postupak mjerenja i specifikacije (IEC 61228:2008; EN 61228:2008)  
Fluorescent ultraviolet lamps used for tanning – Measurement and specification method (IEC 61228:2008; EN 61228:2008)
- HRN EN 60064:2008/A11:2008  
Žarulje s volframovom žarnom niti za uporabu u kućanstvu i sličnu opću rasvjetnu namjenu – Izvedbeni zahtjevi (EN 60064:1995/A11:2007)  
Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements (EN 60064:1995/A11:2007)
- HRN EN 60357:2008  
Halogene volframove žarulje (osim žarulja za vozila) – Izvedbeni zahtjevi (IEC 60357:2002, MOD+am1:2006, MOD+am2:2008; EN 60357:2003+AC:2003+A1:2008+A2:2008)  
Tungsten halogen lamps (non-vehicle) – Performance specifications (IEC 60357:2002, MOD+am1:2006, MOD+am2:2008; EN 60357:2003+AC:2003+A1:2008+A2:2008)
- HRN EN 60809:2008  
Žarulje za cestovna vozila – Dimenzije, električni i svjetlosni zahtjevi (IEC 60809:1995+am1:1996+am2:2002+am3:2004; EN 60809:1996+A1:1996+A2:2002+A3:2004)  
Lamps for road vehicles – Dimensional, electrical and luminous requirements (IEC 60809:1995+am1:1996+am2:2002+am3:2004; EN 60809:1996+A1:1996+A2:2002+A3:2004)
- HRN EN 60240-1:2008  
Značajke električnih infracrvenih grijalica za industrijsko grijanje – 1. dio: Kratkovalne infracrvene grijalice (IEC 60240-1:1992; EN 60240-1:1994)  
Characteristics of electric infra-red emitters for industrial heating – Part 1: Short wave infra-red emitters (IEC 60240-1:1992; EN 60240-1:1994)
- HRN EN 60682:2008  
Postupak mjerenja temperature najmanje potrošnje energije za žarulje od kvarcnoga stakla (IEC 60682:1980+am1:1987+am2:1997; EN 60682:1993+A2:1997)  
Method of measuring the pinch temperature of quartz glass lamps (IEC 60682:1980+am1:1987+am2:1997; EN 60682:1993+A2:1997)
- HRN EN 50172:2008  
Sustavi rasvjete za slučaj opasnosti (EN 50172:2004)  
Emergency escape lighting systems (EN 50172:2004)

## **2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju**

### **201.040.01 Opći pojmovi. Nazivlje. Normizacija. Dokumentacija (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 30300:20  
Information and documentation – Management systems for records – Fundamentals and vocabulary

### **01.040.19 Ispitivanje (Rječnici)**

#### **Europska normizacija**

EN 16018:2011  
Non-destructive testing – Terminology – Terms used in ultrasonic testing with phased arrays

### **01.040.27 Prijenos energije i topline (Rječnici)**

#### **Međunarodna normizacija (IEC)**

IEC 60050-617:2009/am1:2011  
Amendment 1 – International Electrotechnical Vocabulary – Part 617: Organization/Market of electricity

### **01.040.29 Elektrotehnika (Rječnici)**

#### **Međunarodna normizacija (IEC)**

IEC 60050-617:2009/am1:2011  
Amendment 1 – International Electrotechnical Vocabulary – Part 617: Organization/Market of electricity

### **01.040.43 Cestovna vozila (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 26262-1:2011  
Road vehicles – Functional safety – Part 1: Vocabulary

### **01.040.49 Zrakoplovna i svemiroplavna tehnika (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 8625-4:2011  
Aerospace – Fluid systems – Vocabulary – Part 4: General terms and definitions relating to control/actuation systems

### **01.040.59 Tekstilna i kožna tehnologija (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 9092:2011  
Textiles – Nonwovens – Definition

#### **Europska normizacija**

EN ISO 9092:2011  
Textiles – Nonwovens – Definition (ISO 9092:2011)

### **01.040.91 Građevna gradiva i gradnja (Rječnici)**

#### **Europska normizacija**

EN 14511-1:2011  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms and definitions

### **01.060 Veličine i jedinice**

#### **Međunarodna normizacija (ISO)**

ISO 80000-1:2009/Cor 1:2011  
Quantities and units – Part 1: General; Technical Corrigendum 1

### **01.070 Označivanje bojama**

#### **Međunarodna normizacija (ISO)**

ISO 10243:2010/Amd 1:2011  
Tools for pressing – Compression springs with rectangular section – Housing dimensions and colour coding

### **01.080.20 Grafički znakovi za uporabu na posebnoj opremi**

#### **Međunarodna normizacija (IEC)**

IEC 80416-3:2002+A1:2011  
Basic principles for graphical symbols for use on equipment – Part 3: Guidelines for the application of graphical symbols

### **01.080.40 Grafički znakovi za uporabu u električnim i elektroničkim crtežima, shemama, grafikonima i odgovarajućoj dokumentaciji o tehničkome proizvodu**

#### **Međunarodna normizacija (IEC)**

IEC/TR 62711:2011  
Mnemonics and designations of symbols for measuring relays, instruments and related device

### **01.100.40 Oprema za crtanje**

#### **Međunarodna normizacija (ISO)**

ISO 9177-1:2011  
Mechanical pencils – Part 1: Classification, dimensions, performance requirements and testing

## 01.110 Tehnička dokumentacija o proizvodu

### Međunarodna normizacija (IEC)

- IEC 62023:2011  
Structuring of technical information and documentation
- IEC 62027:2011  
Preparation of object lists, including parts lists

## 01.120 Normizacija. Opća pravila

### Međunarodna normizacija (IEC)

- IECEX 01A:2008  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – An Informative Guide comparing various elements of both IECEX and ATEX
- IECEX 01B:2011  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – Guidance for the use of the IECEX Logo

## 01.140.20 Informacijske znanosti

### Međunarodna normizacija (ISO)

- ISO 24610-2:2011  
Language resource management – Feature structures – Part 2: Feature system declaration
- ISO 30300:2011  
Information and documentation – Management systems for records – Fundamentals and vocabulary
- ISO 30301:2011  
Information and documentation – Management systems for records – Requirements

## 03.080.30 Usluge za potrošače

### Međunarodna normizacija (ISO)

- ISO 10667-1:2011  
Assessment service delivery – Procedures and methods to assess people in work and organizational settings – Part 1: Requirements for the client
- ISO 10667-2:2011  
Assessment service delivery – Procedures and methods to assess people in work and organizational settings – Part 2: Requirements for service providers

## 03.100.01 Ustrojstvo poduzeća i upravljanje poduzećem općenito

### Međunarodna normizacija (ISO)

- ISO 22320:2011  
Societal security – Emergency management – Requirements for incident response

## 03.120.10 Upravljanje kakvoćom i osiguravanje kakvoće

### Međunarodna normizacija (ISO)

- ISO 15378:2011  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

- ISO 19011:2011  
Guidelines for auditing management systems

### Europska normizacija

- EN ISO 15378:2011  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2011)
- EN ISO 19011:2011  
Guidelines for auditing management systems (ISO 19011:2011)

## 03.120.20 Potvrđivanje proizvoda i tvrtki. Procjena sukladnosti

### Međunarodna normizacija (IEC)

- IECEE 01:2011  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) – Basic Rules

## 03.220.20 Cestovni prijevoz

### Međunarodna normizacija (ISO)

- ISO 14906:2011  
Electronic fee collection – Application interface definition for dedicated short-range communication

### Europska normizacija

- EN ISO 14906:2011  
Electronic fee collection – Application interface definition for dedicated short-range communication (ISO 14906:2011)

## 03.240 Poštanske usluge

### Europska normizacija

- CEN/TR 15524:2011  
Postal services – Customer-directed information including track and trace – General concepts and definitions

## 07.100.30 Mikrobiologija hrane

### Međunarodna normizacija (ISO)

- ISO 6887-4:2003/Amd 1:2011  
Microbiology of food and animal feeding stuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – Part 4: Specific rules for the preparation of products other than milk and milk products, meat and meat products, and fish and fishery products

### Europska normizacija

- EN ISO 6887-4:2003/A1:2011  
Microbiology of food and animal feeding stuffs – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination – Part 4: Specific rules for the preparation of products other than milk and milk products, meat and meat products, and fish and fishery products (ISO 6887-4:2003/Amd 1:2011)

## 11.040.01 Medicinska oprema općenito

### Europska normizacija

- EN 60601-1:2006/AC:2010  
Medical electrical equipment – Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005)
- EN 60601-1:2006/A11:2011  
Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
- EN 60601-1-2:2007/AC:2010  
Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests (IEC 60601-1-2, modified)

## 11.040.10 Anestezijska, respiracijska i reanimacijska oprema

### Međunarodna normizacija (ISO)

- ISO 80601-2-12:2011/Cor 1:2011  
Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators; Technical Corrigendum 1
- ISO 8835-7:2011  
Inhalational anaesthesia systems – Part 7: Anaesthetic systems for use in areas with limited logistical supplies of electricity and anaesthetic gases

### Europska normizacija

- EN 60601-2-19:2009/A11:2011  
Medical electrical equipment – Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators
- EN 60601-2-20:2009/A11:2011  
Medical electrical equipment – Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators
- EN 60601-2-21:2009/A11:2011  
Medical electrical equipment – Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers
- EN ISO 15001:2011  
Anaesthetic and respiratory equipment – Compatibility with oxygen (ISO 15001:2010)
- EN ISO 80601-2-12:2011/AC:2011  
Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators – Technical Corrigendum 1 (ISO 80601-2-12:2011/Cor 1:2011)

## 11.040.20 Transfuzijska, infuzijska i injekcijska oprema

### Europska normizacija

- EN 60601-2-39:2008/A11:2011  
Medical electrical equipment – Part 2-39: Particular requirements for basic safety and essential performance of peritoneal dialysis equipment
- EN ISO 1135-4:2011  
Transfusion equipment for medical use – Part 4: Transfusion sets for single use (ISO 1135-4:2010)
- EN ISO 15747:2011  
Plastic containers for intravenous injections (ISO 15747:2010)

## 11.040.30 Kirurški instrumenti i gradiva

### Međunarodna normizacija (IEC)

- IEC/TR 61289:2011  
High frequency surgical equipment – Operation and maintenance

### Europska normizacija

- EN 60601-2-2:2009/A11:2011  
Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories

## 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

### Europska normizacija

- EN 45502-2-2:2008/AC:2009  
Active implantable medical devices – Part 2-2: Particular requirements for active implantable medical devices intended to treat tachyarrhythmia (includes implantable defibrillators)
- EN ISO 14602:2011  
Non-active surgical implants – Implants for osteosynthesis – Particular requirements (ISO 14602:2010)

## 11.040.50 Radiografska i druga dijagnostička oprema

### Europska normizacija

- EN 60601-1-3:2008/AC:2010  
Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment (IEC 60601-1-3:2008)
- EN 60601-2-29:2008/A11:2011  
Medical electrical equipment – Part 2-29: Particular requirements for the basic safety and essential performance of radiotherapy simulators
- EN 60601-2-44:2009/A11:2011  
Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography
- EN 60627:2001  
Diagnostic X-ray imaging equipment – Characteristics of general purpose and mammographic anti-scatter grids

## 11.040.55 Dijagnostička oprema

### Međunarodna normizacija (IEC)

- IEC 60601-2-25:2011  
Medical electrical equipment – Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs

### Europska normizacija

- EN 60601-1-8:2007/AC:2010  
Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems (IEC 60601-1-8:2006)

EN 60601-2-27:2006/AC:2006

Medical electrical equipment – Part 2-27: Particular requirements for the safety, including essential performance, of electrocardiographic monitoring equipment (IEC 60601-2-27:2005)

EN 60601-2-33:2010/A11:2011

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis

EN 60601-2-37:2008/A11:2011

Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment

## 11.040.60 Terapeutska oprema

### Međunarodna normizacija (IEC)

IEC 60601-2-31:2008+A1:2011

Medical electrical equipment – Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source

## 11.040.70 Oftalmološka oprema

### Europska normizacija

EN 80601-2-58:2009/A11:2011

Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery

## 11.040.99 Druga medicinska oprema

### Europska normizacija

EN 60601-2-50:2009/A11:2011

Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment

## 11.060.15 Zubni usadci

### Europska normizacija

EN 1642:2011

Dentistry – Medical devices for dentistry – Dental implants

## 11.060.25 Zubarski instrumenti

### Međunarodna normizacija (ISO)

ISO 3630-5:2011

Dentistry – Endodontic instruments – Part 5: Shaping and cleaning instruments

### Europska normizacija

EN ISO 3630-5:2011

Dentistry – Endodontic instruments – Part 5: Shaping and cleaning instruments (ISO 3630-5:2011)

## 11.100.10 Ispitni sustavi za “in vitro” dijagnostiku

### Europska normizacija

EN ISO 18113-1:2011

In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 1: Terms, definitions and general requirements (ISO 18113-1:2009)

EN ISO 18113-2:2011

In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 2: In vitro diagnostic reagents for professional use (ISO 18113-2:2009)

EN ISO 18113-3:2011

In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 3: In vitro diagnostic instruments for professional use (ISO 18113-3:2009)

EN ISO 18113-4:2011

In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 4: In vitro diagnostic reagents for self-testing (ISO 18113-4:2009)

EN ISO 18113-5:2011

In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 5: In vitro diagnostic instruments for self-testing (ISO 18113-5:2009)

## 11.100.20 Biološka ocjena medicinskih uređaja

### Europska normizacija

EN ISO 14155:2011

Clinical investigation of medical devices for human subjects – Good clinical practice (ISO 14155:2011)

## 11.120.10 Lijekovi

### Međunarodna normizacija (ISO)

ISO 15378:2011

Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

### Europska normizacija

EN ISO 15378:2011

Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2011)

## 11.140 Bolnička oprema

### Europska normizacija

EN 60601-2-41:2009/A11:2011

Medical electrical equipment – Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis

EN 80601-2-35:2009/A11:2011

Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use



### 13.030.01 Otpad općenito

#### Europska normizacija

CEN/TR 16176:2011

Characterization of waste – Screening methods for elemental composition by X-ray fluorescence spectrometry for on-site verification

### 13.030.99 Druge norme koje se odnose na otpad

#### Europska normizacija

EN 16192:2011

Characterization of waste – Analysis of eluates

### 13.040.20 Kakvoća zraka u okolišu

#### Međunarodna normizacija (ISO)

ISO 16000-3:2011

Indoor air – Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air – Active sampling method

### 13.040.30 Kakvoća zraka na radnome mjestu

#### Međunarodna normizacija (ISO)

ISO 10882-1:2011

Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles

ISO 15011-5:2011

Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry

ISO/TR 14294:2011

Workplace atmospheres – Measurement of dermal exposure – Principles and methods

#### Europska normizacija

EN ISO 10882-1:2011

Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles (ISO 10882-1:2011)

EN ISO 15011-5:2011

Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry (ISO 15011-5:2011)

### 13.060.60 Ispitivanje fizikalnih svojstava vode

#### Međunarodna normizacija (ISO)

ISO 13161:2011

Water quality – Measurement of polonium 210 activity concentration in water by alpha spectrometry

ISO 13162:2011

Water quality – Determination of carbon 14 activity – Liquid scintillation counting method

### 13.060.70 Ispitivanje bioloških svojstava vode

#### Međunarodna normizacija (ISO)

ISO 14380:2011

Water quality – Determination of the acute toxicity to *Thamnocephalus platyurus* (Crustacea, Anostraca)

### 13.080.10 Kemijske značajke tla

#### Međunarodna normizacija (ISO)

ISO 11262:2011

Soil quality – Determination of total cyanide

### 13.080.30 Biološka svojstva tla

#### Međunarodna normizacija (ISO)

ISO 17512-2:2011

Soil quality – Avoidance test for determining the quality of soils and effects of chemicals on behaviour – Part 2: Test with collembolans (*Folsomia candida*)

### 13.110 Sigurnost strojeva

#### Europska normizacija

EN 13861:2011

Safety of machinery – Guidance for the application of ergonomics standards in the design of machinery

### 13.180 Ergonomija

#### Međunarodna normizacija (ISO)

ISO 15006:2011

Road vehicles – Ergonomic aspects of transport information and control systems – Specifications for in-vehicle auditory presentation

ISO 9241-303:2011

Ergonomics of human-system interaction – Part 303: Requirements for electronic visual displays

#### Europska normizacija

EN 13861:2011

Safety of machinery – Guidance for the application of ergonomics standards in the design of machinery

EN ISO 15006:2011

Road vehicles – Ergonomic aspects of transport information and control systems – Specifications for in-vehicle auditory presentation (ISO 15006:2011)

EN ISO 9241-303:2011

Ergonomics of human-system interaction – Part 303: Requirements for electronic visual displays (ISO 9241-303:2011)

### 13.220.40 Zapaljivost i ponašanje pri izgaranju gradiva i proizvoda

#### Međunarodna normizacija (IEC)

IEC 60754-1:2011

Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content

IEC 60754-2:2011

Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity

### Europska normizacija

EN 60695-6-2:2011

Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods (IEC 60695-6-2:2011)

EN 60695-7-2:2011

Fire hazard testing – Part 7-2: Toxicity of fire effluent – Summary and relevance of test methods (IEC 60695-7-2:2011)

EN 60695-7-3:2011

Fire hazard testing – Part 7-3: Toxicity of fire effluent – Use and interpretation of test results (IEC 60695-7-3:2011)

EN 60695-11-4:2011

Fire hazard testing – Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method (IEC 60695-11-4:2011)

### 13.220.50 Vatrootpornost građevnih gradiva i elemenata

#### Međunarodna normizacija (ISO)

ISO 12949:2011

Standard test method for measuring the heat release rate of low flammability mattresses and mattress sets

ISO 5658-2:2006/Amd 1:2011

Reaction to fire tests – Spread of flame – Part 2: Lateral spread on building and transport products in vertical configuration

### 13.220.99 Druge norme koje se odnose na zaštitu od požara

#### Međunarodna normizacija (ISO)

ISO 15928-4:2011

Houses – Description of performance – Part 4: Fire safety

### 13.260 Zaštita od električnog udara

#### Međunarodna normizacija (IEC)

IEC/TR 60479-4:2011

Effects of current on human beings and livestock – Part 4: Effects of lightning strokes

### 13.280 Zaštita od zračenja

#### Međunarodna normizacija (ISO)

ISO 17874-3:2011

Remote handling devices for radioactive materials – Part 3: Electrical master-slave manipulators

#### Europska normizacija

EN 60601-1-3:2008/AC:2010

Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment (IEC 60601-1-3:2008)

### 13.340.30 Uređaji za zaštitu dišnih organa

#### Međunarodna normizacija (ISO)

ISO 23269-2:2011

Ships and marine technology – Breathing apparatus for ships – Part 2: Self-contained breathing apparatus for shipboard firefighters

### 17.020 Metrologija i mjerenje općenito

#### Međunarodna normizacija (ISO)

ISO/IEC Guide 98-3:2008/Suppl.2:2011

Uncertainty of measurement – Part 3: Guide to the expression of uncertainty in measurement (GUM:1995) – Extension to any number of output quantities

### 17.040.30 Mjerila

#### Međunarodna normizacija (ISO)

ISO 15530-3:2011

Geometrical product specifications (GPS) – Coordinate measuring machines (CMM): Technique for determining the uncertainty of measurement – Part 3: Use of calibrated workpieces or measurement standards

ISO 22432:2011

Geometrical product specifications (GPS) – Features utilized in specification and verification

#### Europska normizacija

EN ISO 15530-3:2011

Geometrical product specifications (GPS) – Coordinate measuring machines (CMM): Technique for determining the uncertainty of measurement – Part 3: Use of calibrated workpieces or measurement standards (ISO 15530-3:2011)

EN ISO 22432:2011

Geometrical product specifications (GPS) – Features utilized in specification and verification (ISO 22432:2011)

### 17.140.20 Buka koju proizvode strojevi i oprema

#### Međunarodna normizacija (IEC)

IEC 60534-8-2:2011

Industrial-process control valves – Part 8-2: Noise considerations – Laboratory measurement of noise generated by hydrodynamic flow through control valves

IEC 60704-2-4:2011

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-4: Particular requirements for washing machines and spin extractors

### 17.220.01 Elektricitet. Magnetizam. Opći aspekti

#### Međunarodna normizacija (IEC)

IEC 60865-1:2011

Short-circuit currents – Calculation of effects – Part 1: Definitions and calculation methods

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Međunarodna normizacija (IEC)

IEC/TR 62711:2011

Mnemonics and designations of symbols for measuring relays, instruments and related device

### Europska normizacija

EN 50400:2006/AC:2011

Basic standard to demonstrate the compliance of fixed equipment for radio transmission (110 MHz – 40 GHz) intended for use in wireless telecommunication networks with the basic restrictions or the reference levels related to general public exposure to radio frequency electromagnetic fields, when put into service

EN 50401:2006/A1:2011

Product standard to demonstrate the compliance of fixed equipment for radio transmission (110 MHz – 40 GHz) intended for use in wireless telecommunication networks with the basic restrictions or the reference levels related to general public exposure to radio frequency electromagnetic fields, when put into service

CWA 16373:2011

Best practice approach for electromagnetic induction (EMI) measurements of the near surface

## 17.240 Mjerenje zračenja

### Međunarodna normizacija (ISO)

ISO 13161:2011

Water quality – Measurement of polonium 210 activity concentration in water by alpha spectrometry

ISO 13162:2011

Water quality – Determination of carbon 14 activity – Liquid scintillation counting method

## 19.040 Ispitivanje utjecaja okoliša

### Europska normizacija

EN 60068-2-83:2011

Environmental testing – Part 2-83: Tests – Test Tf: Solderability testing of electronic components for surface mounting devices (SMD) by the wetting balance method using solder paste (IEC 60068-2-83:2011)

## 19.100 Nerazorna ispitivanja

### Europska normizacija

EN 16018:2011

Non-destructive testing – Terminology – Terms used in ultrasonic testing with phased arrays

## 21.060.01 Pričvršćivači općenito

### Međunarodna normizacija (ISO)

ISO 4753:2011

Fasteners – Ends of parts with external ISO metric thread

### Europska normizacija

EN ISO 4753:2011

Fasteners – Ends of parts with external ISO metric thread (ISO 4753:2011)

## 21.100.10 Ravni ležajevi

### Međunarodna normizacija (ISO)

ISO 254:2011

Belt drives – Pulleys – Quality, finish and balance

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija (ISO)

ISO 3030:2011

Rolling bearings – Radial needle roller and cage assemblies – Boundary dimensions and tolerances

## 23.020.30 Tlačne posude, cilindrični plinski spremnici

### Europska normizacija

EN 12245:2009+A1:2011

Transportable gas cylinders – Fully wrapped composite cylinders

## 23.040.01 Cjevovodne sastavnice i cjevovodi općenito

### Međunarodna normizacija (ISO)

ISO 13056:2011

Plastics piping systems – Pressure systems for hot and cold water – Test method for leaktightness under vacuum

## 23.040.20 Plastične cijevi

### Međunarodna normizacija (ISO)

ISO 13272:2011

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with mineral modifiers (PP-MD) and polyethylene (PE) – Specifications for manholes and inspection chambers in traffic areas and underground installations

ISO 23228:2

Thermoplastics pipes for the conveyance of fluids – Determination of the stress-rupture resistance of moulding materials using plain strain grooved tensile (PSGT) specimens

ISO 11296-7:2011

Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

## 23.040.45 Plastični fitinzi

### Međunarodna normizacija (ISO)

ISO 13272:2011

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with mineral modifiers (PP-MD) and polyethylene (PE) – Specifications for manholes and inspection chambers in traffic areas and underground installations

ISO 11296-7:2011

Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

## 23.040.60 Prirubnice, spojke i druge cijevne veze

### Međunarodna normizacija (ISO)

ISO 19892:2011  
Plastics piping systems – Thermoplastics pipes and fittings for hot and cold water – Test method for the resistance of joints to pressure cycling

## 23.040.70 Spojevi sipkih cijevi

### Međunarodna normizacija (ISO)

ISO 6224:2011  
Thermoplastics hoses, textile-reinforced, for general-purpose water applications – Specification

ISO 30013:2011  
Rubber and plastics hoses – Methods of exposure to laboratory light sources – Determination of changes in colour, appearance and other physical properties

ISO 28017:2011  
Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications – Specification

### Europska normizacija

EN ISO 6224:2011  
Thermoplastics hoses, textile-reinforced, for general-purpose water applications – Specification (ISO 6224:2011)

EN ISO 30013:2011  
Rubber and plastics hoses – Methods of exposure to laboratory light sources – Determination of changes in colour, appearance and other physical properties (ISO 30013:2011)

## 23.060.40 Regulatori tlaka

### Međunarodna normizacija (IEC)

IEC 60534-8-2:2011  
Industrial-process control valves – Part 8-2: Noise considerations – Laboratory measurement of noise generated by hydrodynamic flow through control valves

## 23.100.40 Cijevi i spojke

### Međunarodna normizacija (ISO)

ISO 4397:2011  
Fluid power connectors and associated components – Nominal outside diameters of tubes and nominal hose sizes

## 23.100.50 Upravljačke sastavnice

### Međunarodna normizacija (ISO)

ISO 15524:2011  
Pneumatic fluid power – Cylinders – Single-rod short-stroke cylinders, 1 000 kPa (10 bar) series, bores from 20 mm to 100 mm

ISO 16873:2011  
Hydraulic fluid power – Pressure switches – Mounting surfaces

## 23.120 Ventilatori. Klimatizacijski uređaji

### Međunarodna normizacija (ISO)

ISO 15042:2011  
Multiple split-system air-conditioners and air-to-air heat pumps – Testing and rating for performance

## 25.100.30 Svrkla, razvrtači

### Međunarodna normizacija (ISO)

ISO 521:2011  
Machine chucking reamers with cylindrical shanks and Morse taper shanks

## 25.100.40 Pile

### Međunarodna normizacija (ISO)

ISO 2296:2011  
Metal slitting saws with fine and coarse teeth – Metric series

## 25.120.10 Oprema za kovanje. Preše. Škare

### Međunarodna normizacija (ISO)

ISO 10243:2010/Amd 1:2011  
Tools for pressing – Compression springs with rectangular section – Housing dimensions and colour coding

## 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

### Međunarodna normizacija (ISO)

ISO 10882-1:2011  
Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles

### Europska normizacija

EN ISO 10882-1:2011  
Health and safety in welding and allied processes – Sampling of airborne particles and gases in the operator's breathing zone – Part 1: Sampling of airborne particles (ISO 10882-1:2011)

## 25.160.10 Procesi zavarivanja

### Međunarodna normizacija (ISO)

ISO 15011-5:2011  
Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry

ISO 15609-5:2011  
Specification and qualification of welding procedures for metallic materials – Welding procedure specification – Part 5: Resistance welding

## Europska normizacija

EN ISO 15011-5:2011

Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry (ISO 15011-5:2011)

EN ISO 15609-5:2011

Specification and qualification of welding procedures for metallic materials – Welding procedure specification – Part 5: Resistance welding (ISO 15609-5:2011, Corrected version 2011-12-01)

## 25.160.20 Potrošna gradiva za zavarivanje

### Međunarodna normizacija (ISO)

ISO 15792-1:2000/Amd 1:2011

Welding consumables – Test methods – Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys

### Europska normizacija

EN ISO 15792-1:2008/A1:2011

Welding consumables – Test methods – Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys (ISO 15792-1:2000/Amd 1:2011)

## 25.160.40 Zavareni spojevi

### Međunarodna normizacija (ISO)

ISO 5173:2009/Amd 1:2011

Destructive tests on welds in metallic materials – Bend tests; Amendment 1

### Europska normizacija

EN ISO 5173:2010/A1:2011

Destructive tests on welds in metallic materials – Bend tests – Amendment 1 (ISO 5173:2009/Amd 1:2011)

## 25.180.10 Električne peći

### Međunarodna normizacija (IEC)

IEC 60683:2011

Industrial electroheating equipment – Test methods for submerged-arc furnaces

IEC 60676:2011

Industrial electroheating equipment – Test methods for direct arc furnaces

## 25.220.20 Površinska obradba

### Međunarodna normizacija (ISO)

ISO/TR 26946:2011

Standard method for porosity measurement of thermally sprayed coatings

## 25.220.50 Čakline

### Međunarodna normizacija (ISO)

ISO 6370-2:2011

Vitreous and porcelain enamels – Determination of the resistance to abrasion – Part 2: Loss in mass after sub-surface abrasion

## 25.220.60 Organsko premazivanje

### Europska normizacija

EN 10245-1:2011

Steel wire and wire products – Organic coatings on steel wire – Part 1: General rules

EN 10245-2:2011

Steel wire and wire products – Organic coatings on steel wire – Part 2: PVC finished wire

EN 10245-3:2011

Steel wire and wire products – Organic coatings on steel wire – Part 3: PE coated wire

EN 10245-4:2011

Steel wire and wire products – Organic coatings on steel wire – Part 4: Polyester coated wire

EN 10245-5:2011

Steel wire and wire products – Organic coatings on steel wire – Part 5: Polyamide coated wire

## 27.020 Motori s unutrašnjim izgaranjem

### Međunarodna normizacija (IEC)

IEC 60050-617:2009/am1:2011

Amendment 1 – International Electrotechnical Vocabulary – Part 617: Organization/Market of electricity

## 27.070 Gorivi članci

### Međunarodna normizacija (IEC)

IEC 62282-6-200:2011

Fuel cell technologies – Part 6-200: Micro fuel cell power systems – Performance test methods

IEC 62282-3-200:2011

Fuel cell technologies – Part 3-200: Stationary fuel cell power systems – Performance test methods

## 27.080 Toplinske pumpe

### Međunarodna normizacija (ISO)

ISO 15042:2011

Multiple split-system air-conditioners and air-to-air heat pumps – Testing and rating for performance

### Europska normizacija

EN 16147:2011/AC:2011

Heat pumps with electrically driven compressors – Testing and requirements for marking of domestic hot water units

## 27.120.30 Fisijska gradiva

### Međunarodna normizacija (ISO)

ISO 11320:2011

Heat pumps with electrically driven compressors – Testing and requirements for marking of domestic hot water units

## 27.160 Sunčeva energija

### Međunarodna normizacija (IEC)

IEC 61730-1:2004/am1:2011

Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction

IEC 61730-2:2004/am1:2011  
Photovoltaic (PV) module safety qualification – Part 2:  
Requirements for testing

## 27.200 Rashladna tehnika

### Evropska normizacija

EN 16147:2011/AC:2011  
Heat pumps with electrically driven compressors –  
Testing and requirements for marking of domestic  
hot water units

## 29.020 Elektrotehnika općenito

### Međunarodna normizacija (IEC)

IECEE 01:2011  
IEC System of Conformity Assessment Schemes for  
Electrotechnical Equipment and Components (IECEE)  
– Basic Rules

IEC 60050-617:2009/am1:2011  
Amendement 1 – International Electrotechnical  
Vocabulary – Part 617: Organization/Market of  
electricity

IEC 62023:2011  
Structuring of technical information and documentation

IEC 62027:2011  
Preparation of object lists, including parts lists

IEC 80416-3:2002+A1:2011  
Basic principles for graphical symbols for use on  
equipment – Part 3: Guidelines for the application of  
graphical symbols

### Evropska normizacija

EN 60038:2011  
CENELEC standard voltages (IEC 60038:2009,  
modified)

EN 60695-6-2:2011  
Fire hazard testing – Part 6-2: Smoke obscuration –  
Summary and relevance of test methods  
(IEC 60695-6-2:2011)

EN 60695-7-2:2011  
Fire hazard testing – Part 7-2: Toxicity of fire effluent  
– Summary and relevance of test methods  
(IEC 60695-7-2:2011)

EN 60695-7-3:2011  
Fire hazard testing – Part 7-3: Toxicity of fire effluent  
– Use and interpretation of test results  
(IEC 60695-7-3:2011)

EN 60695-11-4:2011  
Fire hazard testing – Part 11-4: Test flames – 50 W  
flame – Apparatus and confirmational test method  
(IEC 60695-11-4:2011)

## 29.035.10 Papirna i kartonska izolacijska gradiva

### Evropska normizacija

EN 60819-3-3:2011  
Non-cellulosic papers for electrical purposes – Part 3:  
Specifications for individual materials – Sheet 3:  
Unfilled aramid (aromatic polyamide) papers

## 29.035.20 Plastična i gumena izolacijska gradiva

### Međunarodna normizacija (IEC)

IEC 60227-5:2011  
Polyvinyl chloride insulated cables of rated voltages  
up to and including 450/750 V – Part 5: Flexible  
cables (cords)

IEC 60245-4:2011  
Rubber insulated cables – Rated voltages up to and  
including 450/750 V – Part 4: Cords and flexible cables

IEC 60893-3-2:2003+A1:2011  
Insulating materials – Industrial rigid laminated sheets  
based on thermosetting resins for electrical purposes  
– Part 3-2: Specifications for individual materials –  
Requirements for rigid laminated sheets based on  
epoxy resins

IEC 60893-3-3:2003/am1:2011  
Amendment 1 – Insulating materials – Industrial rigid  
laminated sheets based on thermosetting resins for  
electrical purposes – Part 3-3: Specifications for  
individual materials – Requirements for rigid laminated  
sheets based on melamine resins

### Evropska normizacija

EN 60674-3-1:1998/A1:2011  
Plastic films for electrical purposes – Part 3:  
Specifications for individual materials – Sheet 1:  
Biaxially oriented polypropylene (PP) film for capacitors  
(IEC 60674-3-1:1998/am1:2011)

EN 60684-3-116:2011  
Flexible insulating sleeving – Part 3: Specifications  
for individual types of sleeving – Sheets 116 and 117:  
Extruded polychloroprene, general purpose  
(IEC 60684-3-116:2010)

EN 60819-3-3:2011  
Non-cellulosic papers for electrical purposes – Part 3:  
Specifications for individual materials – Sheet 3:  
Unfilled aramid (aromatic polyamide) papers  
(IEC 60819-3-3:2011)

## 29.040.10 Izolacijska ulja

### Međunarodna normizacija (IEC)

IEC 60475:2011  
Method of sampling insulating liquids

IEC 60567:2011  
Oil-filled electrical equipment – Sampling of gases  
and analysis of free and dissolved gases – Guidance

## 29.050 Električno vodljiva gradiva

### Međunarodna normizacija (IEC)

IEC 61788-15:2011  
Superconductivity – Part 15: Electronic characteristic  
measurements – Intrinsic surface impedance of  
superconductor films at microwave frequencies

## 29.060.20 Kabeli

### Međunarodna normizacija (IEC)

IEC 60227-5:2011  
Polyvinyl chloride insulated cables of rated voltages  
up to and including 450/750 V – Part 5: Flexible  
cables (cords)

IEC 60245-4:2011  
Rubber insulated cables – Rated voltages up to and  
including 450/750 V – Part 4: Cords and flexible cables

IEC/TR 62470:2011

Guidance on techniques for the measurement of the coefficient of friction (COF) between cables and ducts

IEC 60754-1:2011

Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content

IEC 60754-2:2011

Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity

IEC 60840:2011

Power cables with extruded insulation and their accessories for rated voltages above 30 kV ( $U_m = 36$  kV) up to 150 kV ( $U_m = 170$  kV) – Test methods and requirements

IEC 62067:2011

Power cables with extruded insulation and their accessories for rated voltages above 150 kV ( $U_m = 170$  kV) up to 500 kV ( $U_m = 550$  kV) – Test methods and requirements

## 29.080.10 Izolatori

### Europska normizacija

CLC/TR 62662:2011

Guidance for production, testing and diagnostics of polymer insulators with respect to brittle fracture of core materials (IEC/TR 62662:2010)

## 29.080.30 Izolacijski sustavi

### Međunarodna normizacija (IEC)

IEC/TR 60664-2-1:2011/Corr.1:2011

Insulation coordination for equipment within low-voltage systems – Part 2-1: Application guide – Explanation of the application of the IEC 60664 series, dimensioning examples and dielectric testing

## 29.120.10 Zaštitne cijevi za električne potrebe

### Međunarodna normizacija (IEC)

IEC 62549:2011

Articulated systems and flexible systems for cable guiding

### Europska normizacija

EN 50085-2-1:2006/A1:2011

Cable trunking systems and cable ducting systems for electrical installations – Part 2-1: Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings

EN 61386-25:2011

Conduit systems for cable management – Part 25: Particular requirements – Conduit fixing devices

## 29.120.30 Utikači, utičnice, sprežnici

### Međunarodna normizacija (IEC)

IEC 62613-2:2011

Plugs, socket-outlets and ship couplers for high-voltage shore connection systems (HVSC-SYSTEMS) – Part 2: Dimensional compatibility and interchangeability requirements for accessories to be used by various types of ships

## 29.120.50 Osigurači i drugi uređaji za nadstrujnu zaštitu

### Međunarodna normizacija (IEC)

IEC 60364-4-44:2007/Corr.2:2011

Corrigendum 2 – Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija (IEC)

IEC 62271-200:2011

High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV

### Europska normizacija

EN 62271-102:2002/A1:2011

High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches (IEC 62271-102:2001/am1:2011)

EN 62271-106:2011

High-voltage switchgear and controlgear – Part 106: Alternating current contactors, contactor-based controllers and motor-starters (IEC 62271-106:2011)

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija (IEC)

IEC 60947-8:2003+A1:2006+A2:2011

Low-voltage switchgear and controlgear – Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines

IEC 61915-2:2011

Low-voltage switchgear and controlgear – Device profiles for networked industrial devices – Part 2: Root device profiles for starters and similar equipment

### Europska normizacija

EN 61439-2:2011

Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Međunarodna normizacija (IEC)

IEC 60901:1996/am5:2011

Amendment 5 – Single-capped fluorescent lamps – Performance specifications

## 29.140.40 Rasvjetna tijela

### Međunarodna normizacija (IEC)

IEC 60598-2-2:2011

Luminaires – Part 2-2: Particular requirements – Recessed luminaires

IEC 60598-2-3:2002+A1:2011

Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting

## Europska normizacija

EN 60601-2-41:2009/A11:2011

Medical electrical equipment – Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis

## 29.140.99 Druge norme koje se odnose na svjetiljke

### Međunarodna normizacija (IEC)

IEC 62442-1:2011

Energy performance of lamp controlgear – Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear

### Europska normizacija

EN 60929:2011/AC:2011

AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements

EN 61347-2-3:2011/AC:2011

Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

EN 62442-1:2011

Energy performance of lamp controlgear – Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear (IEC 62442-1:2011)

## 29.180 Transformatori. Prigušnice

### Međunarodna normizacija (IEC)

IEC 61558-2-15:2011

Safety of transformers, reactors, power supply units and combinations thereof – Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations

### Europska normizacija

HD 428.1 S1:1992/AC:2011

Three-phase oil-immersed distribution transformers 50 Hz, from 50 to 2500 kVA with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements and requirements for transformers with highest voltage for equipment not exceeding 24 kV; Corrigendum

HD 538.1 S1:1992/AC:2011

Three-phase dry-type distribution transformers 50 Hz, from 100 to 2500 kVA, with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements and requirements for transformers with highest voltage for equipment not exceeding 24 kV; Corrigendum

EN 50464-4:2007/A1:2011

Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2500 kVA with highest voltage for equipment not exceeding 36 kV – Part 4: Requirements and tests concerning pressurised corrugated tanks

EN 60076-1:2011

Power transformers – Part 1: General (IEC 60076-1:2011)

## 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

### Međunarodna normizacija (IEC)

IEC 61148:2011

Terminal markings for valve device stacks and assemblies and for power conversion equipment

IEC 61800-3:2004/am1:2011

Amendment 1 – Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods

### Europska normizacija

EN 50563:2011

External a.c. – d.c. and a.c. – a.c. power supplies – Determination of no-load power and average efficiency of active modes

## 29.220.20 Kiseli sekundarni članci i baterije

### Europska normizacija

EN 50342-5:2010/AC:2011

Lead-acid starter batteries – Part 5: Properties of battery housings and handles; Corrigendum

EN 50342-1:2006/A1:2011

Lead-acid starter batteries – Part 1: General requirements and methods of test

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

### Međunarodna normizacija (IEC)

IECEX 01A:2008

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – An Informative Guide comparing various elements of both IECEx and ATEX

IECEX 01B:2011

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – Guidance for the use of the IECEx Logo

IECEX 02A:2011

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – Guidance for Applicants seeking IECEx Certification under the IECEx Certified Equipment Scheme, IECEx 02

### Europska normizacija

EN 50281-2-1:1998/AC:1999

Electrical apparatus for use in the presence of combustible dust – Part 2-1: Test methods – Methods for determining the minimum ignition temperatures of dust

EN 50381:2004/AC:2005

Transportable ventilated rooms with or without an internal source of release

EN 60079-14:2008/AC:2011

Explosive atmospheres – Part 14: Electrical installations design, selection and erection

## 29.280 Oprema za električnu vuču

### Europska normizacija

EN 50149:2001/AC:2011

Railway applications – Fixed installations – Electric traction – Copper and copper alloy grooved contact wires



## **31.020      Elektronične sestavnice općenito**

### **Međunarodna normizacija (IEC)**

IEC 62137-3:2011

Electronics assembly technology – Part 3: Selection guidance of environmental and endurance test methods for solder joints

## **31.040.10   Nepromjenjivi otpornici**

### **Europska normizacija**

EN 140401-804:2011/AC:2011

Detail Specification: Fixed low power film high stability SMD resistors – Rectangular – Stability classes 0,1; 0,25

## **31.080.01   Poluvodički uređaji općenito**

### **Međunarodna normizacija (IEC)**

IEC/PAS 60747-17:2011

Semiconductor devices – Discrete devices – Part 17: Magnetic and capacitive coupler for basic and reinforced isolation

### **Europska normizacija**

EN 62047-12:2011

Semiconductor devices – Micro-electromechanical devices – Part 12: Bending fatigue testing method of thin film materials using resonant vibration of MEMS structures

## **31.120      Elektronički pokazni uređaji**

### **Europska normizacija**

EN 61988-2-4:2011

Plasma display panels – Part 2-4: Measuring methods – Visual quality: Image artifacts (IEC 61988-2-4:2011)

## **31.140      Piezoelektrični i dielektrični uređaji**

### **Međunarodna normizacija (IEC)**

IEC 62604-2:2011

Surface acoustic wave (SAW) and bulk acoustic wave (BAW) duplexers of assessed quality – Part 2: Guideline for the use

## **31.160      Električni filtri**

### **Međunarodna normizacija (IEC)**

IEC 62604-2:2011

Surface acoustic wave (SAW) and bulk acoustic wave (BAW) duplexers of assessed quality – Part 2: Guideline for the use

## **31.190      Sklopovi elektroničkih sastavnica**

### **Međunarodna normizacija (IEC)**

IEC 62137-3:2011

Electronics assembly technology – Part 3: Selection guidance of environmental and endurance test methods for solder joints

## **31.200      Integrirani krugovi. Mikroelektronika**

### **Europska normizacija**

EN 61967-8:2011

Integrated circuits – Measurement of electromagnetic emissions – Part 8: Measurement of radiated emissions – IC stripline method (IEC 61967-8:2011)

## **31.220.01   Elektromehaničke sestavnice općenito**

### **Europska normizacija**

EN 62047-12:2011

Semiconductor devices – Micro-electromechanical devices – Part 12: Bending fatigue testing method of thin film materials using resonant vibration of MEMS structures (IEC 62047-12:2011)

## **31.220.10   Utikački i utičnički uređaji. Konektori**

### **Međunarodna normizacija (IEC)**

IEC 60603-7:2008/am1:2011

Amendment 1 – Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors

IEC 60512-7-2:2011

Connectors for electronic equipment – Tests and measurements – Part 7-2: Impact tests (free components) – Test 7b: Mechanical strength impact

IEC 60512-9-2:2011

Connectors for electronic equipment – Tests and measurements – Part 9-2: Endurance tests – Test 9b: Electrical load and temperature

IEC 61984:2008/Corr.1:2011

Corrigendum 1 – Connectors – Safety requirements and tests

### **Europska normizacija**

EN 60603-7:2009/A1:2011

Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors (IEC 60603-7:2008/am1:2011)

## **31.240      Mehaničke konstrukcije za elektroničku opremu**

### **Međunarodna normizacija (IEC)**

IEC 60191-2:1966/am18:2011

Amendment 18 – Mechanical standardization of semiconductor devices – Part 2: Dimensions

IEC 61587-1:2011

Mechanical structures for electronic equipment – Tests for IEC 60917 and IEC 60297 series – Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor conditions

IEC 61969-1:2011

Mechanical structures for electronic equipment – Outdoor enclosures – Part 1: Design guidelines

IEC 61696-2:2011

Mechanical structures for electronic equipment – Outdoor enclosures – Part 2: Coordination dimensions

IEC 61969-3:2011

Mechanical structures for electronic equipment  
– Outdoor enclosures – Part 3: Environmental requirements, tests and safety aspects

## **31.260 Optoelektronika. Laserska oprema**

### **Međunarodna normizacija (IEC)**

IEC 60825-13:2011

Safety of laser products – Part 13: Measurements for classification of laser products

IEC 62572-3:2011

Fibre optic active components and devices – Reliability standards – Part 3: Laser modules used for telecommunication

## **33.060.20 Prijamna i odašiljačka oprema**

### **Europska normizacija**

EN 301 908-2 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

EN 301 908-3 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)

EN 301 908-6 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 6: CDMA TDD (UTRA TDD) User Equipment (UE)

EN 301 908-7 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)

EN 301 908-11 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 11: CDMA Direct Spread (UTRA FDD) (Repeaters)

EN 301 908-15 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) (Repeaters)

EN 301 908-19 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)

## **33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi**

### **Europska normizacija**

EN 301 908-4 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 4: CDMA Multi-Carrier (cdma2000) User Equipment (UE)

EN 301 908-5 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 5: CDMA Multi-Carrier (cdma2000) Base Stations (BS)

EN 301 908-19 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)

EN 301 908-20 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)

EN 301 908-21 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 21: OFDMA TDD WMAN (Mobile WiMAX) FDD User Equipment (UE)

EN 301 908-22 V5.2.1

IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)

## **33.060.40 Kabelski sustavi za razdiobu**

### **Europska normizacija**

EN 302 878-1 V1.1.1

Access, Terminals, Transmission and Multiplexing (ATTM) – Third Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 1: General – DOCSIS 3.0

EN 302 878-2 V1.1.1

Access, Terminals, Transmission and Multiplexing (ATTM) – Third Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 2: Physical Layer – DOCSIS 3.0

EN 302 878-3 V1.1.1

Access, Terminals, Transmission and Multiplexing (ATTM) – Third Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 3: Downstream Radio Frequency Interface; DOCSIS 3.0

EN 302 878-4 V1.1.1

Access, Terminals, Transmission and Multiplexing (ATTM) – Third Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 4: MAC and Upper Layer Protocols; DOCSIS 3.0

EN 302 878-5 V1.1.1

Access, Terminals, Transmission and Multiplexing (ATTM) – Third Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 5: Security Services – DOCSIS 3.0

## **33.070.01 Pokretne službe općenito**

### **Europska normizacija**

EN 50400:2006/AC:2011

Basic standard to demonstrate the compliance of fixed equipment for radio transmission (110 MHz – 40 GHz) intended for use in wireless telecommunication networks with the basic restrictions or the reference levels related to general public exposure to radio frequency electromagnetic fields, when put into service

- EN 50401:2006/A1:2011  
Product standard to demonstrate the compliance of fixed equipment for radio transmission (110 MHz – 40 GHz) intended for use in wireless telecommunication networks with the basic restrictions or the reference levels related to general public exposure to radio frequency electromagnetic fields, when put into service
- EN 301 908-4 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 4: CDMA Multi-Carrier (cdma2000) User Equipment (UE)
- EN 301 908-5 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 5: CDMA Multi-Carrier (cdma2000) Base Stations (BS)
- EN 301 908-19 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 19: OFDMA TDD WMAN (Mobile WiMAX) TDD User Equipment (UE)
- EN 301 908-20 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)
- EN 301 908-21 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 21: OFDMA TDD WMAN (Mobile WiMAX) FDD User Equipment (UE)
- EN 301 908-22 V5.2.1  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)

### 33.070.10 Zemaljski radio (TETRA)

#### Europska normizacija

- EN 300 392-3-3 V1.3.1  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 3: Additional Network Feature Group Call (ANF-ISIGC)

### 33.070.40 Sateliti

#### Europska normizacija

- EN 301 681 V1.4.1  
Satellite Earth Stations and Systems (SES) – Harmonized EN for Mobile Earth Stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,5/1,6 GHz bands under the Mobile Satellite Service (MSS) covering the essential requirements of article 3.2 of the R&TTE Directive

### 33.070.99 Druge pokretne službe

#### Europska normizacija

- EN 301 842-2 V1.6.1  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 2: General description and data link layer

- EN 301 842-3 V1.3.1  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 3: Additional broadcast aspects
- EN 302 842-2 V1.3.1  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 2: General description and data link layer
- EN 302 842-3 V1.3.1  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 3: Additional broadcast aspects
- EN 301 842-1 V1.3.4:2011  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 1: EN for ground equipment
- EN 301 842-2 V1.6.1:2011  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 2: General description and data link layer
- EN 301 842-3 V1.3.1:2011  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 3: Additional broadcast aspects
- EN 301 893 V1.6.1:2011  
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 302 842-1 V1.2.4:2011  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 1: Physical layer
- EN 302 842-2 V1.3.1:2011  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 2: General description and data link layer
- EN 302 842-3 V1.3.1:2011  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 3: Additional broadcast aspects

### 33.100.01 Elektromagnetska spojivost općenito

#### Međunarodna normizacija (IEC)

- IEC/TR 61000-3-14:2011  
Electromagnetic compatibility (EMC) – Part 3-14: Assessment of emission limits for harmonics, interharmonics, voltage fluctuations and unbalance for the connection of disturbing installations to LV power systems
- IEC 61800-3:2004/am1:2011  
Amendment 1 – Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods

## 33.100.10 Zračenje

### Europska normizacija

- EN 300 676-2 V1.5.1  
Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation – Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.9.2  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements
- EN 302 885-2 V1.1.1  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 302 885-3 V1.1.1  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 3: Harmonized EN covering the essential requirements of article 3.3(e) of the R&TTE Directive
- EN 303 213-6-1 V1.1.1  
Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 6: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for deployed surface movement radar sensors – Sub-part 1: X-band sensors using pulsed signals and transmitting power up to 100 kW
- EN 55022:2010/AC:2011  
Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
- EN 300 113-1 V1.7.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land mobile service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Part 1: Technical characteristics and methods of measurement
- EN 300 113-2 V1.5.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land mobile service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 300 422-1 V1.4.2:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 1: Technical characteristics and methods of measurement
- EN 300 422-2 V1.3.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 300 676-2 V1.5.1:2011  
Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation – Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
- EN 301 025-1 V1.5.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) – Part 1: Technical characteristics and methods of measurement
- EN 301 178-1 V1.4.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only) – Part 1: Technical characteristics and methods of measurement
- EN 301 489-1 V1.9.2:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements
- EN 301 489-23 V1.5.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment
- EN 301 841-3 V1.1.1:2011  
VHF air-ground Digital Link (VDL) Mode 2 – Technical characteristics and methods of measurement for ground-based equipment – Part 3: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 302 208-1 V1.4.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W – Part 1: Technical requirements and methods of measurement
- EN 302 208-2 V1.4.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 302 885-1 V1.2.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 1: Technical characteristics and methods of measurement
- EN 302 885-2 V1.1.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- EN 302 885-3 V1.1.1:2011  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Part 3: Harmonized EN covering the essential requirements of article 3.3(e) of the R&TTE Directive

EN 303 213-6-1 V1.1.1:2011

Advanced Surface Movement Guidance and Control System (A-SMGCS) — Part 6: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for deployed surface movement radar sensors — Sub-part 1: X-band sensors using pulsed signals and transmitting power up to 100 kW

### 33.120.10 Suosni kabeli. Valovodi

#### Međunarodna normizacija (IEC)

IEC 61196-1-108:2011

Coaxial communication cables — Part 1-108: Electrical test methods — Test for characteristic impedance, phase and group delay, electrical length and propagation velocity

IEC 61196-1-304:2011

Coaxial communication cables — Part 1-304: Mechanical test methods — Impact resistance

### 33.160.20 Radioprijamnici

#### Europska normizacija

EN 55020:2007/A11:2011

Sound and television broadcast receivers and associated equipment — Immunity characteristics — Limits and methods of measurement

### 33.160.25 Televizijski prijamnici

#### Europska normizacija

EN 55020:2007/A11:2011

Sound and television broadcast receivers and associated equipment — Immunity characteristics — Limits and methods of measurement

### 33.160.30 Audiosustavi

#### Međunarodna normizacija (IEC)

IEC 61937-1:2007/am1:2011

Amendment 1 — Digital audio — Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 — Part 1: General

IEC 61937-2:2007/am1:2011

Amendment 1 — Digital audio — Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 — Part 2: Burst-info

#### Europska normizacija

EN 61937-1:2007/A1:2011

Digital audio — Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 — Part 1: General

### 33.170 Televizijski i radijski prijenos

#### Europska normizacija

EN 300 468 V1.12.1:2011

Digital Video Broadcasting (DVB) — Specification for Service Information (SI) in DVB systems

EN 300 743 V1.4.1:2011

Digital Video Broadcasting (DVB) — Subtitling systems

### 33.180.10 Svjetlovodna vlakna i kabeli

#### Međunarodna normizacija (IEC)

IEC 60793-2:2011

Optical fibres — Part 2: Product specifications — General

#### Europska normizacija

EN 60794-2-10:2011

Optical fibre cables — Part 2-10: Indoor optical fibre cables — Family specification for simplex and duplex cables

### 33.180.20 Svjetlovodni vezni uređaji

#### Međunarodna normizacija (IEC)

IEC 60874-1:2011

Fibre optic interconnecting devices and passive components — Connectors for optical fibres and cables — Part 1: Generic specification

IEC 60874-1-1:2011

Fibre optic interconnecting devices and passive components — Connectors for optical fibres and cables — Part 1-1: Blank detail specification

IEC 61274-1:2011

Fibre optic interconnecting devices and passive components — Adaptors for fibre optic connectors — Part 1: Generic specification

IEC 61274-1-1:2011

Fibre optic interconnecting devices and passive components — Adaptors for fibre optic connectors — Part 1-1: Blank detail specification

IEC 61300-3-39:2011

Fibre optic interconnecting devices and passive components — Basic test and measurement procedures — Part 3-39: Examinations and measurements — Physical contact (PC) optical connector reference plug selection for return loss measurements

IEC 61314-1:2011

Fibre optic interconnecting devices and passive components — Fibre optic fan-outs — Part 1: Generic specification

IEC 61314-1-1:2011

Fibre optic interconnecting devices and passive components — Fibre optic fan-outs — Part 1-1: Blank detail specification

### 33.180.30 Optička pojačala

#### Međunarodna normizacija (IEC)

IEC 61291-4:2011

Optical amplifiers — Part 4: Multichannel applications — Performance specification template

IEC/TR 61292-7:2011

Optical amplifiers — Part 7: Four wave mixing effect in optical amplifiers

IEC/TR 62343-6-8:2011

Dynamic modules — Part 6-8: Categorization study of dynamic performance requirements

IEC 62572-3:2011

Fibre optic active components and devices — Reliability standards — Part 3: Laser modules used for telecommunication

#### Europska normizacija

EN 61290-4-1:2011

Optical amplifiers — Test methods — Part 4-1: Gain transient parameters — Two-wavelength method

## 35.020 Informacijska tehnika (IT) općenito

### Europska normizacija

- CWA 16367:2011  
Implementing e-Competence Framework into SMEs
- EN 60950-1:2006/AC:2011  
Information technology equipment – Safety – Part 1:  
General requirements
- EN 55022:2010/AC:2011  
Information technology equipment – Radio disturbance  
characteristics – Limits and methods of measurement

## 35.040 Skupovi znakova i informacijsko kodiranje

### Međunarodna normizacija (ISO)

- ISO/IEC 14496-3:2009/Cor 2:2011  
Information technology – Coding of audio-visual  
objects – Part 3: Audio; Technical Corrigendum 2
- ISO/IEC 14496-5:2001/Amd 5:2004/Cor 1:2011  
Information technology – Coding of audio-visual  
objects – Part 5: Reference software – Amendment 5:  
Reference software extensions for error resilient  
simple scalable profile; Technical Corrigendum 1
- ISO/IEC 14496-5:2001/Amd 10:2007/Cor 5:2011  
Information technology – Coding of audio-visual  
objects – Part 5: Reference software – Amendment 10:  
SSC, DST, ALS and SLS reference software; Technical  
Corrigendum 5
- ISO/IEC 14496-26:2010/Cor 4:2011  
Information technology – Coding of audio-visual  
objects – Part 26: Audio conformance; Technical  
Corrigendum 4
- ISO/IEC 15938-6:2003/Amd 4:2011  
Information technology – Multimedia content  
description interface – Part 6: Reference software –  
Amendment 4: Reference software for video signature  
tools
- ISO/IEC 15938-7:2003/Amd 6:2011  
Information technology – Multimedia content  
description interface – Part 7: Conformance testing  
– Amendment 6: Conformance testing for video  
signature tools
- ISO/IEC 23003-1:2007/Amd 1:2008/Cor 1:2011  
Information technology – MPEG audio technologies –  
Part 1: MPEG Surround – Amendment 1: Conformance  
testing; Technical Corrigendum 1
- ISO/IEC 23003-1:2007/Amd 2:2008/Cor 2:2011  
Information technology – MPEG audio technologies  
– Part 1: MPEG Surround – Amendment 2: Reference  
software; Technical Corrigendum 2
- ISO/IEC TR 27008:2011  
Information technology – Security techniques –  
Guidelines for auditors on information security controls
- ISO/IEC TR 29158:2011  
Information technology – Automatic identification and  
data capture techniques – Direct Part Mark (DPM)  
Quality Guideline
- ISO/IEC 9797-3:2011  
Information technology – Security techniques –  
Message Authentication Codes (MACs) – Part 3:  
Mechanisms using a universal hash-function
- ISO/IEC 14496-4:2004/Amd 40:2011  
Information technology – Coding of audio-visual  
objects – Part 4: Conformance testing – Amendment  
40: ExtendedCore2D conformance

- ISO/IEC 14496-5:2001/Amd 29:2011  
Information technology – Coding of audio-visual  
objects – Part 5: Reference software – Amendment  
29: Reference software for LASer presentation and  
modification of structured information (PMSI) tools
- ISO/IEC 14496-15:2010/Amd 1:2011  
Information technology – Coding of audio-visual  
objects – Part 15: Advanced Video Coding (AVC) file  
format – Amendment 1: Sub-track definitions
- ISO/IEC 14496-16:2011  
Information technology – Coding of audio-visual  
objects – Part 16: Animation Framework eXtension  
(AFX)
- ISO/IEC TR 15938-8:2002/Amd 6:2011  
Information technology – Multimedia content  
description interface – Part 8: Extraction and use of  
MPEG-7 descriptions – Amendment 6: Extraction and  
matching of video signature tools
- ISO/IEC 18031:2011  
Information technology – Security techniques –  
Random bit generation
- ISO/IEC 21000-8:2008/Amd 2:2011  
Information technology – Multimedia framework  
(MPEG-21) – Part 8: Reference software – Amendment 2:  
Reference software for media value chain ontology  
(MVCO)
- ISO/IEC 23000-11:2009/Amd 2:2011  
Information technology – Multimedia application  
format (MPEG-A) – Part 11: Stereoscopic video  
application format – Amendment 2: Signalling of  
additional composition type and profiles
- ISO/IEC 23005-7:2011  
Information technology – Media context and control  
– Part 7: Conformance and reference software
- ISO/IEC 27007:2011  
Information technology – Security techniques –  
Guidelines for information security management  
systems auditing
- ISO/IEC TR 29172:2011  
Information technology – Mobile item identification  
and management – Reference architecture for Mobile  
AIDC services

### Međunarodna normizacija (IEC)

- IEC/TR 62712:2011  
Professional tape-less camera recorder

## 35.060 Jezici koji se upotrebljavaju u informatičkoj tehnici

### Međunarodna normizacija (ISO)

- ISO/IEC TR 24733:2011  
Information technology – Programming languages,  
their environments and system software interfaces  
– Extensions for the programming language C++ to  
support decimal floating-point arithmetic

## 35.080 Razvoj računalne podrške i dokumentacijski sustav

### Međunarodna normizacija (ISO)

- ISO/IEC/IEEE 15289:2011  
Systems and software engineering – Content of life-  
cycle information products (documentation)

## 35.100.10 Fizikalni sloj

### Međunarodna normizacija (ISO)

ISO/IEC 16353:2011

Information technology – Telecommunications and information exchange between systems – Front-end configuration command for NFC-WI (NFC-FEC)

## 35.110 Umreživanje

### Međunarodna normizacija (ISO)

ISO/IEC 13156:2011

Information technology – Telecommunications and information exchange between systems – High rate 60 GHz PHY, MAC and PALs

ISO/IEC 16504:2011

Information technology – Telecommunications and information exchange between systems – MAC and PHY for operation in TV white space

### Međunarodna normizacija (IEC)

IEC 62061:2011

Industrial communication networks – Fieldbus specifications – WIA-PA communication network and communication profile

### Europska normizacija

CLC/TR 62685:2011

Industrial communication networks – Profiles – Assessment guideline for safety devices using IEC 61784-3 functional safety communication profiles (FSCPs) (IEC/TR 62685:2010)

## 35.180 Terminalna i druga vanjska oprema

### Međunarodna normizacija (ISO)

ISO 9241-303:2011

Ergonomics of human-system interaction – Part 303: Requirements for electronic visual displays

### Europska normizacija

EN ISO 9241-303:2011

Ergonomics of human-system interaction – Part 303: Requirements for electronic visual displays (ISO 9241-303:2011)

## 35.200 Sučelna i vezna oprema

### Međunarodna normizacija (ISO)

ISO/IEC 29341-19-10:2011

Information technology – UPnP Device Architecture – Part 19-10: Solar Protection Blind Device Control Protocol – Two Way Motion Motor Service

ISO/IEC 14763-2-1:2011

Information technology – Implementation and operation of customer premises cabling – Part 2-1: Planning and installation – Identifiers within administration systems

ISO/IEC 14776:2011

Information technology – Small Computer System Interface (SCSI) – Part 372: SCSI Enclosure Services – 2 (SES-2)

### Međunarodna normizacija (IEC)

IEC 62541-4:2011

OPC unified architecture – Part 4: Services

IEC 62541-5:2011

OPC unified architecture – Part 5: Information Model

IEC 62541-6:2011

OPC unified architecture – Part 6: Mappings

IEC 62541-8:2011

OPC unified architecture – Part 8: Data Access

## 35.220.30 Optički uređaji za pohranu podataka

### Međunarodna normizacija (ISO)

ISO/IEC 16963:2011

Information technology – Digitally recorded media for information interchange and storage – Test method for the estimation of lifetime of optical media for long-term data storage

## 35.240.15 Identifikacijske kartice i srodni uređaji

### Međunarodna normizacija (ISO)

ISO/IEC 14443-2:2010/Amd 1:2011

Identification cards – Contactless integrated circuit cards – Proximity cards – Part 2: Radio frequency power and signal interface – Amendment 1: Limits of electromagnetic disturbance levels parasitically generated by the PICC

ISO/IEC 14443-3:2011/Amd 1:2011

Identification cards – Contactless integrated circuit cards – Proximity cards – Part 3: Initialization and anticollision – Amendment 1: Electromagnetic disturbance handling and single-size unique identifier

ISO/IEC 19794-6:2011

Information technology – Biometric data interchange formats – Part 6: Iris image data

ISO/IEC 19794-9:2011

Information technology – Biometric data interchange formats – Part 9: Vascular image data

ISO/IEC 29109-4:2010/Cor 1:2011

Information technology – Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 – Part 4: Finger image data

ISO/IEC 29109-6:2011

Information technology – Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 – Part 6: Iris image data

ISO/IEC 29109-7:2011

Information technology – Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 – Part 7: Signature/sign time series data

ISO/IEC 29164:2011

Information technology – Biometrics – Embedded BioAPI

ISO/IEC 18013-4:2011

Information technology – Personal identification – ISO-compliant driving licence – Part 4: Test methods

ISO/IEC 19794-4:2005/Cor 1:2011

Information technology – Biometric data interchange formats – Part 4: Finger image data

ISO/IEC 19794-5:2011

Information technology – Biometric data interchange formats – Part 5: Face image data

ISO/IEC 24789-2:2011

Identification cards – Card service life – Part 2: Methods of evaluation

### 35.240.20 Primjene IT-a u uredskom poslovanju

#### Međunarodna normizacija (ISO)

- ISO/IEC 11581-40:2011  
Information technology – User interface icons –  
Part 40: Management of icon registration

### 35.240.30 Primjene IT-a u obavješćivanju, dokumentaciji i izdavaštvu

#### Međunarodna normizacija (ISO)

- ISO/IEC 19757-5:2011  
Information technology – Document Schema Definition Languages (DSDL) – Part 5: Extensible Datatypes
- ISO/IEC TR 24754-2:2011  
Information technology – Document description and processing languages – Minimum requirements for specifying document rendering systems – Part 2: Formatting specifications for document rendering systems
- ISO/IEC 19757-11:2011  
Information technology – Document Schema Definition Languages (DSDL) – Part 11: Schema association

### 35.240.40 Primjene IT-a u bankarstvu

#### Europska normizacija

- CWA 15748-29:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 29: XFS MIB Architecture and SNMP Extensions MIB Version 3.10
- CWA 15748-30:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 30: XFS MIB Device Specific Definitions – Printer Device Class MIB 3.10
- CWA 15748-31:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 31: XFS MIB Device Specific Definitions – Identification Card Device Class MIB 3.10
- CWA 15748-32:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 32: XFS MIB Device Specific Definitions – Cash Dispenser Device Class MIB 3.10
- CWA 15748-33:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 33: XFS MIB Device Specific Definitions – PIN Keypad Device Class MIB 3.10
- CWA 15748-34:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 34: XFS MIB Device Specific Definitions – Check Reader/Scanner Device Class MIB 3.10
- CWA 15748-35:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 35: XFS MIB Device Specific Definitions – Depository Device Class MIB 3.10
- CWA 15748-36:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 36: XFS MIB Device Specific Definitions – Text Terminal Unit Device Class MIB 3.

- CWA 15748-37:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 37: XFS MIB Device Specific Definitions – Sensors and Indicators Unit Device Class MIB 3.10
- CWA 15748-38:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 38: XFS MIB Device Specific Definitions – Camera Device Class MIB 3.10
- CWA 15748-39:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 39: XFS MIB Device Specific Definitions – Alarm Device Class MIB 3.10
- CWA 15748-40:2011  
Extensions for Financial Services (XFS) interface specification Release 3.10 – Part 40: XFS MIB Device Specific Definitions – Card Embossing Unit Device Class MIB 3.10
- CWA 15748-41:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 41: XFS MIB Device Specific Definitions – Cash In Module Device Class MIB 3.10
- CWA 15748-43:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 43: XFS MIB Device Specific Definitions – Vendor Dependent Mode Class MIB 3.10
- CWA 15748-44:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 44: XFS MIB Application Management MIB 3.10
- CWA 15748-45:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 45: XFS MIB Device Specific Definitions – Card Dispenser Device Class MIB 3.10
- CWA 15748-46:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 46: XFS MIB Device Specific Definitions – Barcode Reader Device Class MIB 3.10
- CWA 15748-47:2011  
Extensions for Financial Services (XFS) interface specification – Release 3.10 – Part 47: XFS MIB Device Specific Definitions – Item Processing Module Device Class MIB Version 3.10

### 35.240.50 Primjene IT-a u industriji

#### Međunarodna normizacija (ISO)

- ISO 10303-235:2009/Cor 1:2011  
Industrial automation systems and integration – Product data representation and exchange – Part 235: Application protocol: Engineering properties for product design and verification; Technical Corrigendum 1

#### Međunarodna normizacija (IEC)

- IEC 62541-4:2011  
OPC unified architecture – Part 4: Services
- IEC 62541-5:2011  
OPC unified architecture – Part 5: Information Model
- IEC 62541-6:2011ž  
OPC unified architecture – Part 6: Mappings
- IEC 62541-8:2011  
OPC unified architecture – Part 8: Data Access



## Europska normizacija

- EN 61987-10:2009/AC:2011  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 10: Lists of properties (LOPs) for industrial-process measurement and control for electronic data exchange – Fundamentals
- CLC/TR 62685:2011  
Industrial communication networks – Profiles – Assessment guideline for safety devices using IEC 61784-3 functional safety communication profiles (FSCPs) (IEC 62685:2010)

## 35.240.60 Primjene IT-a u prijevozu i trgovini

### Međunarodna normizacija (ISO)

- ISO 14906:2011  
Electronic fee collection – Application interface definition for dedicated short-range communication
- ISO 15006:2011  
Road vehicles – Ergonomic aspects of transport information and control systems – Specifications for in-vehicle auditory presentation
- ISO/IEC 18046-1:2011  
Information technology – Radio frequency identification device performance test methods – Part 1: Test methods for system performance
- ISO/IEC 24791-2:2011  
Information technology – Radio frequency identification (RFID) for item management – Software system infrastructure – Part 2: Data management
- ISO/IEC 29176:2011  
Information technology – Mobile item identification and management – Consumer privacy-protection protocol for Mobile RFID services

### Europska normizacija

- EN ISO 14906:2011  
Electronic fee collection – Application interface definition for dedicated short-range communication (ISO 14906:2011)
- EN ISO 15006:2011  
Road vehicles – Ergonomic aspects of transport information and control systems – Specifications for in-vehicle auditory presentation (ISO 15006:2011)
- EN 302 931 V1.1.1:2011  
Intelligent Transport Systems (ITS) – Vehicular Communications – Geographical Area Definition

## 35.240.70 Primjene IT-a u znanosti

### Međunarodna normizacija (ISO)

- ISO 19118:2011  
Geographic information – Encoding
- ISO 19131:2007/Amd 1:2011  
Geographic information – Data product specifications – Amendment 1: Requirements relating to the inclusion of an application schema and feature catalogue and the treatment of coverages in an application schema
- ISO 19149:2011  
Geographic information – Rights expression language for geographic information – GeoREL

### Europska normizacija

- EN ISO 19118:2011  
Geographic information – Encoding (ISO 19118:2011)

- EN ISO 19131:2008/A1:2011  
Geographic information – Data product specifications – Amendment 1: Requirements relating to the inclusion of an application schema and feature catalogue and the treatment of coverages in an application schema (ISO 19131:2007/Amd 1:2011)

## 35.240.80 Primjene IT-a u tehnici zaštite zdravlja

### Europska normizacija

- EN 60601-2-33:2010/A11:2011  
Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis
- EN 60601-2-44:2009/A11:2011  
Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography
- EN 62304:2006  
Medical device software – Software life-cycle processes (IEC 62304:2006)

## 35.240.99 Primjene IT-a u drugim područjima

### Međunarodna normizacija (ISO)

- ISO/IEC 12785-2:2011  
Information technology – Learning, education, and training – Content packaging – Part 2: XML binding

### Europska normizacija

- EN 15942:2011  
Sustainability of construction works – Environmental product declarations – Communication format business-to-business

## 35.260 Uredski strojevi

### Europska normizacija

- EN 60950-1:2006/AC:2011  
Information technology equipment – Safety – Part 1: General requirements

## 37.040.20 Fotografski papir, filmovi i kazete

### Međunarodna normizacija (ISO)

- ISO 18920:2011  
Imaging materials – Reflection prints – Storage practices

## 37.040.99 Druge norme koje se odnose na fotografiju

### Međunarodna normizacija (ISO)

- ISO 18930:2011  
Imaging materials – Pictorial colour reflection prints – Methods for evaluating image stability under outdoor conditions
- ISO 18934:2011  
Imaging materials – Multiple media archives – Storage environment

## 37.060.10 Filmska oprema

### Međunarodna normizacija (IEC)

IEC/TR 62712:2011

Professional tape-less camera recorder

## 37.100.01 Grafička tehnika općenito

### Međunarodna normizacija (ISO)

ISO/TR 12705:2011

Graphic technology — Laboratory test method for chemical ghosting in lithography

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija (ISO)

ISO 13209-1:2011

Road vehicles — Open Test sequence eXchange format (OTX) — Part 1: General information and use cases

## 43.040.01 Sustavi na cestovnim vozilima općenito

### Međunarodna normizacija (ISO)

ISO 26262-1:2011

Road vehicles — Functional safety — Part 1: Vocabulary

ISO 26262-2:2011

Road vehicles — Functional safety — Part 2: Management of functional safety

ISO 26262-3:2011

Road vehicles — Functional safety — Part 3: Concept phase

ISO 26262-4:2011

Road vehicles — Functional safety — Part 4: Product development at the system level

ISO 26262-5:2011

Road vehicles — Functional safety — Part 5: Product development at the hardware level

ISO 26262-6:2011

Road vehicles — Functional safety — Part 6: Product development at the software level

ISO 26262-7:2011

Road vehicles — Functional safety — Part 7: Production and operation

ISO 26262-8:2011

Road vehicles — Functional safety — Part 8: Supporting processes

ISO 26262-9:2011

Road vehicles — Functional safety — Part 9: Automotive Safety Integrity Level (ASIL)-oriented and safety-oriented analyses

## 43.040.10 Električna i elektronička oprema

### Međunarodna normizacija (ISO)

ISO 6722-1:2011

Road vehicles — 60 V and 600 V single-core cables — Part 1: Dimensions, test methods and requirements for copper conductor cables

ISO 14572:2011

Road vehicles — Round, sheathed, 60 V and 600 V screened and unscreened single- or multi-core cables — Test methods and requirements for basic- and high-performance cables

ISO 13400-1:2011

Road vehicles — Diagnostic communication over Internet Protocol (DoIP) — Part 1: General information and use case definition

### Međunarodna normizacija (IEC)

IEC 62196-1:2011

Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles — Part 1: General requirements

IEC 62196-2:2011

Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles — Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories

## 43.040.15 Informatika automobila. Računalni sustavi na vozilu

### Međunarodna normizacija (ISO)

ISO 15006:2011

Road vehicles — Ergonomic aspects of transport information and control systems — Specifications for in-vehicle auditory presentation

ISO 15765-1:2011

Road vehicles — Diagnostic communication over Controller Area Network (DoCAN) — Part 1: General information and use case definition

ISO 15765-2:2011

Road vehicles — Diagnostic communication over Controller Area Network (DoCAN) — Part 2: Transport protocol and network layer services

### Europska normizacija

EN ISO 15006:2011

Road vehicles — Ergonomic aspects of transport information and control systems — Specifications for in-vehicle auditory presentation (ISO 15006:2011)

## 43.120 Električna cestovna vozila

### Međunarodna normizacija (IEC)

IEC 62196-1:2011

Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles — Part 1: General requirements

IEC 62196-2:2011

Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles — Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories

## 43.160 Vozila za posebne namjene

### Europska normizacija

EN 15906:2011

Winter maintenance equipment — Snow removal machines with rotating tools — Specification and clearing capacity

## 43.180 Oprema za dijagnostiku, održavanje i ispitivanje

### Međunarodna normizacija (ISO)

ISO 13400-1:2011

Road vehicles — Diagnostic communication over Internet Protocol (DoIP) — Part 1: General information and use case definition

## 45.060.01 **Željeznička tračna vozila.** **Općenito**

### **Europska normizacija**

EN 50533:2011

Railway applications – Three-phase train line voltage characteristics

## 47.020.01 **Brodogradnja i pomorske** **konstrukcije. Općenito**

### **Međunarodna normizacija (ISO)**

ISO/PAS 30004:2011

Ships and marine technology – Ship recycling management systems – Guidelines for the implementation of ISO 30000

## 47.020.60 **Električna oprema brodova i** **pomorskih konstrukcija**

### **Međunarodna normizacija (IEC)**

IEC 62613-2:2011

Plugs, socket-outlets and ship couplers for high-voltage shore connection systems (HVSC-SYSTEMS) – Part 2: Dimensional compatibility and interchangeability requirements for accessories to be used by various types of ships

## 49.030.20 **Klinovi, vijci, podloške**

### **Europska normizacija**

EN 3687:2010/AC:2011

Aerospace series – Bolts, normal hexagon head, relieved shank, long thread, in heat resisting steel FE-PA2601 (A286), silver plated – Classification: 1100 MPa/650 °C

## 49.030.30 **Matice**

### **Europska normizacija**

EN 3034:2009/AC:2011

Aerospace series – Nuts, self-locking, hexagonal with captive washer – In heat resisting steel FE-PA92HT (A286), silver coated Classification: 1100 MPa/425 °C

## 49.060 **Zrakoplovna električna oprema i** **sustavi**

### **Europska normizacija**

EN 4612-002:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 002: General

EN 4612-003:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – jacketed or screened and jacketed – Part 003: Tin plated copper – Operating temperatures, between – 65 °C and 135 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard

EN 4612-004:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 004: Tin plated copper – Operating temperatures, between – 65 °C and 135 °C – Single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard

EN 4612-005:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 005: Tin plated copper – Operating temperatures, between – 65 °C and 135 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard

EN 4612-006:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 006: Tin plated copper – Operating temperatures, between – 65 °C and 135 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard

EN 4612-007:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 007: Silver plated copper – Operating temperatures, between – 65 °C and 150 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard

EN 4612-008:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 008: Silver plated copper – Operating temperatures, between – 65 °C and 150 °C – single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard

EN 4612-009:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 009: Silver plated copper – Operating temperatures, between – 65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard

EN 4612-010:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 010: Silver plated copper – Operating temperatures, between – 65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard

EN 4612-011:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 011: Nickel plated copper – Operating temperatures, between – 65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard

EN 4612-012:2011

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 012: Nickel plated copper – Operating temperatures, between – 65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard

EN 4612-013:2011

Aerospace series — Cables, electrical, for general purpose, single and multicore assembly — XLETFE Family — Jacketed or screened and jacketed — Part 013: SX, TC and UC — Nickel plated copper — Operating temperatures, between — 65 °C and 150 °C — Single extruded wall for equipment only, with jacket and screen (spiral) — UV laser printable — Product standard

EN 3475-603:2011/AC:2011

Aerospace series — Cables, electrical, aircraft use — Test methods — Part 603: Resistance to wet arc tracking

EN 4644-131:2011

Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 131: Size 3 plug for rack and panel applications — Product standard

EN 4644-141:2011

Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 141: Size 4 plug for rack and panel applications — Product standard

## 49.080 Zrakoplovni fluidički sustavi i sastavnice

### Međunarodna normizacija (ISO)

ISO 8625-4:2011

Aerospace — Fluid systems — Vocabulary — Part 4: General terms and definitions relating to control/actuation systems

## 49.090 Oprema i instrumenti u zrakoplovu

### Europska normizacija

EN 4644-131:2011

Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 131: Size 3 plug for rack and panel applications — Product standard

EN 4644-141:2011

Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 141: Size 4 plug for rack and panel applications — Product standard

## 49.100 Zemaljska služba i oprema za održavanje

### Međunarodna normizacija (ISO)

ISO/PAS 21100:2011

Air cargo unit load devices — Performance requirements and test parameters

## 49.120 Oprema za rukovanje teretom

### Međunarodna normizacija (ISO)

ISO/PAS 21100:2011

Air cargo unit load devices — Performance requirements and test parameters

## 49.140 Svemirski sustavi i radnje

### Međunarodna normizacija (ISO)

ISO 10785:2011

Space systems — Bellows — Design and operation

ISO 15889:2011

Space data and information transfer systems — The data description language EAST specification

ISO 17107:2011

Space data and information transfer systems — XML specification for navigation data messages

ISO 22671:2011

Space data and information transfer systems — Space link extension (SLE) — Forward communications link transmission unit (CLTU) service

ISO 22672:2011

Space data and information transfer systems — Space link extension (SLE) — Forward space packet service specification

## 53.020.20 Dizalice

### Međunarodna normizacija (ISO)

ISO 7752-2:2011

Cranes — Control layout and characteristics — Part 2: Basic arrangement and requirements for mobile cranes

## 53.060 Industrijski kamioni

### Međunarodna normizacija (ISO)

ISO 22915-11:2011

Industrial trucks — Verification of stability — Part 11: Industrial variable-reach trucks

## 53.100 Strojevi za zemljane radove

### Međunarodna normizacija (ISO)

ISO 3450:2011

Earth-moving machinery — Wheeled or high-speed rubber-tracked machines — Performance requirements and test procedures for brake systems

### Europska normizacija

EN ISO 3450:2011

Earth-moving machinery — Wheeled or high-speed rubber-tracked machines — Performance requirements and test procedures for brake systems (ISO 3450:2011)

## 55.040 Gradiva i pribor za pakiranje

### Međunarodna normizacija (ISO)

ISO 15378:2011

Primary packaging materials for medicinal products — Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

### Europska normizacija

EN ISO 15378:2007

Primary packaging materials for medicinal products — Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2011)

## 59.080.01 Tekstili općenito

### Međunarodna normizacija (ISO)

ISO 105-B10:2011  
Textiles — Tests for colour fastness — Part B10:  
Artificial weathering — Exposure to filtered xenon-arc  
radiation

### Europska normizacija

EN ISO 105-B10:2011  
Textiles — Tests for colour fastness — Part B10:  
Artificial weathering — Exposure to filtered xenon-arc  
radiation (ISO 105-B10:2011)

## 59.080.30 Tekstilni proizvodi

### Međunarodna normizacija (ISO)

ISO 9092:2011  
Textiles — Nonwovens — Definition  
ISO 10966:2011  
Sports and recreational equipment — Fabrics for  
awnings — Specification  
ISO 2959:2011  
Textiles — Woven fabric descriptions

### Europska normizacija

EN ISO 9092:2011  
Textiles — Nonwovens — Definition (ISO 9092:2011)

## 59.100.10 Tekstilno staklo

### Međunarodna normizacija (ISO)

ISO 4900:2011  
Textile glass — Mats and fabrics — Determination of  
contact mouldability

## 65.060.10 Poljoprivredni traktori i priključna vozila

### Europska normizacija

EN 15695-2:2009/AC:2011  
Agricultural tractors and self-propelled sprayers —  
Protection of the operator (driver) against hazardous  
substances — Part 2: Filters, requirements and test  
procedures

## 65.060.25 Oprema za skladištenje, pripremu i raspodjelu gnojiva

### Europska normizacija

EN 13739-1:2011  
Agricultural machinery — Solid fertilizer broadcasters  
and full width distributors — Environmental protection  
— Part 1: Requirements  
EN 13739-2:2011  
Agricultural machinery — Solid fertilizer broadcasters  
and full width distributors — Environmental protection  
— Part 2: Test methods

## 65.060.80 Oprema za šumarstvo

### Međunarodna normizacija (ISO)

ISO 11850:2011  
Machinery for forestry — General safety requirements

## Europska normizacija

EN ISO 11850:2011  
Machinery for forestry — General safety requirements  
(ISO 11850:2011)

## 65.080 Gnojiva

### Međunarodna normizacija (ISO)

ISO 5308:1992  
Solid fertilizers — Method of checking the performance  
of mechanical devices for sampling of product moving  
in bulk  
ISO 8633:1992  
Solid fertilizers — Simple sampling method for small  
lots  
ISO 10084:1992  
Solid fertilizers — Determination of mineral-acid-  
soluble sulfate content — Gravimetric method

### Europska normizacija

EN 15958:2011  
Fertilizers — Extraction of water soluble phosphorus  
EN 15959:2011  
Fertilizers — Determination of extracted phosphorus  
EN 15960:2011  
Fertilizers — Extraction of total calcium, total  
magnesium, total sodium and total sulfur in the forms  
of sulfates  
EN 15961:2011  
Fertilizers — Extraction of water-soluble calcium,  
magnesium, sodium and sulfur in the form of sulfates  
65.160 Duhan, duhanski proizvodi i odgovarajuća  
oprema

### Međunarodna normizacija (ISO)

ISO 6565:2011  
Tobacco and tobacco products — Draw resistance of  
cigarettes and pressure drop of filter rods — Standard  
conditions and measurement

## 67.060 Žitarice, mahunjače i proizvodi od žitarica i mahunjača

### Međunarodna normizacija (ISO)

ISO 7970:2011  
Wheat (*Triticum aestivum* L.) — Specification

## 67.100.01 Mlijeko i mliječni proizvodi općenito

### Međunarodna normizacija (ISO)

ISO 13082:2011  
Milk and milk products — Determination of the lipase  
activity of pregastric lipase preparation

## 67.100.30 Sir

### Međunarodna normizacija (ISO)

ISO 27871:2011  
Cheese and processed cheese — Determination of the  
nitrogenous fractions

## 67.100.99 Drugi mliječni proizvodi

### Međunarodna normizacija (ISO)

ISO 12779:2011  
Lactose – Determination of water content – Karl  
Fischer meth

## 67.140.20 Kava i nadomjestci za kavu

### Međunarodna normizacija (ISO)

ISO 4150:2011  
Green coffee or raw coffee – Size analysis – Manual  
and machine sieving

## 67.240 Osjetilna analiza

### Međunarodna normizacija (ISO)

ISO 3972:2011  
Sensory analysis – Methodology – Method of  
investigating sensitivity of taste

## 67.260 Postrojenja i oprema za prehrambenu industriju

### Međunarodna normizacija (ISO)

ISO 6666:2011  
Coffee sampling – Triers for green coffee or raw coffee  
and parchment coffee

ISO 7700-2:2011  
Food products – Checking the performance of  
moisture meters in use – Part 2: Moisture meters  
for oilseeds

## 71.040.40 Kemijska analiza

### Međunarodna normizacija (ISO)

ISO 20903:2011  
Surface chemical analysis – Auger electron  
spectroscopy and X-ray photoelectron spectroscopy  
– Methods used to determine peak intensities and  
information required when reporting resu

### Međunarodna normizacija (IEC)

IEC 60754-2:2011  
Test on gases evolved during combustion of materials  
from cables – Part 2: Determination of acidity (by pH  
measurement) and conductivity

## 71.040.50 Fizikalnokemijske metode analize

### Međunarodna normizacija (ISO)

ISO 13067:2011  
Microbeam analysis – Electron backscatter diffraction  
– Measurement of average grain size

## 71.040.99 Druge norme koje se odnose na analitičku kemiju

### Međunarodna normizacija (ISO)

ISO 22309:2011  
Microbeam analysis – Quantitative analysis using  
energy-dispersive spectrometry (EDS) for elements  
with an atomic number of 11 (Na) or above

## 71.100.20 Plinovi za industrijsku primjenu

### Međunarodna normizacija (ISO)

ISO 22734-2:2011  
Hydrogen generators using water electrolysis process  
– Part 2: Residential applications

## 71.100.50 Kemikalije za zaštitu drveta

### Europska normizacija

EN 152:2011  
Wood preservatives – Determination of the protective  
effectiveness of a preservative treatment against blue  
stain in wood in service – Laboratory method

## 71.100.80 Kemikalije za pročišćivanje vode

### Europska normizacija

EN 16003:2011  
Chemicals used for treatment of water intended for  
human consumption – Calcium magnesium carbonate

EN 16004:2011  
Chemicals used for treatment of water intended for  
human consumption – Magnesium oxide

## 71.120.99 Druga oprema za kemijsku industriju

### Međunarodna normizacija (ISO)

ISO 22734-2:2011  
Hydrogen generators using water electrolysis process  
– Part 2: Residential applications

## 73.060.10 Željezne rude

### Međunarodna normizacija (ISO)

ISO 3087:2011  
Iron ores – Determination of the moisture content  
of a lot

## 75.100 Maziva, industrijska ulja i srodni proizvodi

### Međunarodna normizacija (IEC)

IEC 61394:2011  
Overhead lines – Requirements for greases for  
aluminium, aluminium alloy and steel bare conductors

## 75.160.10 Kruta goriva

### Europska normizacija

EN 15440:2011/AC:2011  
Solid recovered fuels – Methods for the determination  
of biomass content

## 75.160.20 Ukapljena goriva

### Međunarodna normizacija (ISO)

ISO 20846:2011  
Petroleum products – Determination of sulfur content  
of automotive fuels – Ultraviolet fluorescence method

## Europska normizacija

EN ISO 20846:2011

Petroleum products — Determination of sulfur content of automotive fuels — Ultraviolet fluorescence method (ISO 20846:2011)

## 75.160.30 Plinovita goriva

### Međunarodna normizacija (ISO)

ISO 20846:2011

Petroleum products — Determination of sulfur content of automotive fuels — Ultraviolet fluorescence method

### Europska normizacija

EN ISO 20846:2011

Petroleum products — Determination of sulfur content of automotive fuels — Ultraviolet fluorescence method (ISO 20846:2011)

## 75.180.10 Oprema za iskorištavanje i vađenje

### Međunarodna normizacija (ISO)

ISO 20312:2011

Petroleum and natural gas industries — Design and operating limits of drill strings with aluminium alloy components

ISO 13503-1:2011

Petroleum and natural gas industries — Completion fluids and materials — Part 1: Measurement of viscous properties of completion fluids

### Europska normizacija

EN ISO 20312:2011

Petroleum and natural gas industries — Design and operating limits of drill strings with aluminium alloy components (ISO 20312:2011)

## 75.200 Naftni proizvodi i oprema za rukovanje prirodnim plinom

### Međunarodna normizacija (ISO)

ISO 21809-3:2008/Amd 1:2011

Petroleum and natural gas industries — External coatings for buried or submerged pipelines used in pipeline transportation systems — Part 3: Field joint coatings; Amendment 1

## 77.040.10 Mehaničko ispitivanje kovina

### Međunarodna normizacija (ISO)

ISO 26203-2:2011

Metallic materials — Tensile testing at high strain rates — Part 2: Servo-hydraulic and other test systems

### Europska normizacija

EN ISO 26203-2:2011

Metallic materials — Tensile testing at high strain rates — Part 2: Servo-hydraulic and other test systems (ISO 26203-2:2011)

## 77.040.20 Nerazorno ispitivanje kovina

### Europska normizacija

EN 12680-3:2011

Founding — Ultrasonic testing — Part 3: Spheroidal graphite cast iron castings

## 77.060 Hrdanje kovina

### Međunarodna normizacija (ISO)

ISO 7539-6:2011

Corrosion of metals and alloys — Stress corrosion testing — Part 6: Preparation and use of precracked specimens for tests under constant load or constant displacement

### Europska normizacija

EN ISO 7539-6:2011

Corrosion of metals and alloys — Stress corrosion testing — Part 6: Preparation and use of precracked specimens for tests under constant load or constant displacement (ISO 7539-6:2011)

## 77.080.10 Željeza

### Europska normizacija

EN 1561:2011

Founding — Grey cast irons

CEN/TR 10353:2011

Chemical analysis of ferrous materials — Analysis of ferro-silicon — Determination of Al, Ti and P by inductively coupled plasma optical emission spectrometry

CEN/TR 10354:2011

Chemical analysis of ferrous materials — Analysis of ferro-silicon — Determination of Si and Al by X-ray fluorescence spectrometry

EN 16079:2011

Founding — Compacted (vermicular) graphite cast irons

EN 16124:2011

Founding — Low-alloyed ferritic spheroidal graphite cast irons for elevated temperature applications

## 77.120.60 Olovo, cink, kositar i njihove slitine

### Međunarodna normizacija (ISO)

ISO 4381:2011

Plain bearings — Tin casting alloys for multilayer plain bearings

## 77.140.25 Čelici za opruge

### Europska normizacija

EN 10270-1:2011

Steel wire for mechanical springs — Part 1: Patented cold drawn unalloyed spring steel wire

EN 10270-2:2011

Steel wire for mechanical springs — Part 2: Oil hardened and tempered spring steel wire

EN 10270-3:2011

Steel wire for mechanical springs — Part 3: Stainless spring steel wire

## 77.140.50 Proizvodi i poluproizvodi od ravnog čelika

### Međunarodna normizacija (ISO)

ISO 13887:2011

Cold-reduced steel sheet of higher yield strength with improved formability

ISO 16172:2011  
Continuous hot-dip metallic-coated steel sheet for  
corrugated steel pipe

## 77.140.65 Čelična žica, žičana užad i lanci

### Europska normizacija

- EN 10245-1:2011  
Steel wire and wire products – Organic coatings on  
steel wire – Part 1: General rules
- EN 10245-2:2011  
Steel wire and wire products – Organic coatings on  
steel wire – Part 2: PVC finished wire
- EN 10245-3:2011  
Steel wire and wire products – Organic coatings on  
steel wire – Part 3: PE coated wire
- EN 10245-4:2011  
Steel wire and wire products – Organic coatings on  
steel wire – Part 4: Polyester coated wire
- EN 10245-5:2011  
Steel wire and wire products – Organic coatings on  
steel wire – Part 5: Polyamide coated wire
- EN 10257-1:2011  
Zinc or zinc alloy coated non-alloy steel wire for  
armouring either power cables or telecommunication  
cables – Part 1: Land cables
- EN 10257-2:2011  
Zinc or zinc alloy coated non-alloy steel wire for  
armouring either power cables or telecommunication  
cables – Part 2: Submarine cables
- EN 10270-3:2011  
Steel wire for mechanical springs – Part 3: Stainless  
spring steel wire

## 77.140.80 Željezni i čelični odljevci

### Europska normizacija

- EN 1559-3:2011  
Founding – Technical conditions of delivery – Part 3:  
Additional requirements for iron castings
- EN 1371-1:2011  
Founding – Liquid penetrant testing – Part 1: Sand,  
gravity die and low pressure die castings

## 77.150.30 Bakreni proizvodi

### Europska normizacija

- EN 1172:2011  
Copper and copper alloys – Sheet and strip for  
building purposes

## 77.150.99 Drugi proizvodi od obojenih kovina

### Europska normizacija

- EN 1371-1:2011  
Founding – Liquid penetrant testing – Part 1: Sand,  
gravity die and low pressure die castings

## 77.160 Metalurgija praha

### Međunarodna normizacija (ISO)

- ISO 14168:2011  
Metallic powders, excluding hardmetals – Method for  
testing copper-base infiltrating powders

## 81.040.20 Građevno staklo

### Međunarodna normizacija (ISO)

- ISO 11479-1:20  
Glass in building – Coated glass – Part 1: Physical  
defects
- ISO 11479-2:2011  
Glass in building – Coated glass – Part 2: Colour  
of façade

## 81.080 Vatrostalna gradiva

### Međunarodna normizacija (ISO)

- ISO 12677:2011  
Chemical analysis of refractory products by X-ray  
fluorescence (XRF) – Fused cast-bead method

### Europska normizacija

- EN ISO 12677:2011  
Chemical analysis of refractory products by X-ray  
fluorescence (XRF) – Fused cast-bead method  
(ISO 12677:2011)

## 83.040.10 Lateks i sirova guma

### Međunarodna normizacija (ISO)

- ISO 248-1:2  
Rubber, raw – Determination of volatile-matter content  
– Part 1: Hot-mill method and oven method
- ISO 124:2011  
Latex, rubber – Determination of total solids content
- ISO 125:2011  
Natural rubber latex concentrate – Determination of  
alkalinity
- ISO 11852:2011  
Rubber – Determination of magnesium content of  
field and concentrated natural rubber latex by titration

## 83.040.20 Sastojci gume

### Međunarodna normizacija (ISO)

- ISO 8511:2011  
Rubber compounding ingredients – Carbon black –  
Determination of pellet size distribution

## 83.040.30 Pomoćna gradiva i aditivi za plastiku

### Međunarodna normizacija (ISO)

- ISO 1043-2:2011  
Plastics – Symbols and abbreviated terms – Part 2:  
Fillers and reinforcing materials

### Europska normizacija

- EN ISO 1043-2:2011  
Plastics – Symbols and abbreviated terms – Part 2:  
Fillers and reinforcing materials (ISO 1043-2:2011)

## 83.060 Guma

### Međunarodna normizacija (ISO)

- ISO 188:2011  
Rubber, vulcanized or thermoplastic – Accelerated  
ageing and heat resistance tests
- ISO 6943:2011  
Rubber, vulcanized – Determination of tension fatigue



- ISO 34-2:2011  
Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 2: Small (Delft) test pieces
- ISO 132:2011  
Rubber, vulcanized or thermoplastic — Determination of flex cracking and crack growth (De Mattia)
- ISO 812:2011  
Rubber, vulcanized or thermoplastic — Determination of low-temperature brittleness
- ISO 1827:2011  
Rubber, vulcanized or thermoplastic — Determination of shear modulus and adhesion to rigid plates — Quadruple-shear methods
- ISO 2475:2011  
Chloroprene rubber (CR) — General-purpose types — Evaluation procedure
- ISO 2921:2011  
Rubber, vulcanized — Determination of low-temperature retraction (TR test)
- ISO 4664-1:2011  
Rubber, vulcanized or thermoplastic — Determination of dynamic properties — Part 1: General guidance
- ISO 6101-6:2011  
Rubber — Determination of metal content by atomic absorption spectrometry — Part 6: Determination of magnesium content
- ISO 7743:2011  
Rubber, vulcanized or thermoplastic — Determination of compression stress-strain properties
- ISO 13226:2011  
Rubber — Standard reference elastomers (SREs) for characterizing the effect of liquids on vulcanized rubbers

### 83.080.01 Plastika općenito

#### Međunarodna normizacija (ISO)

- ISO 1043-1:2011  
Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics
- ISO 1043-2:2011  
Plastics — Symbols and abbreviated terms — Part 2: Fillers and reinforcing materials

#### Europska normizacija

- EN ISO 1043-1:2011  
Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics (ISO 1043-1:2011)
- EN ISO 1043-2:2011  
Plastics — Symbols and abbreviated terms — Part 2: Fillers and reinforcing materials (ISO 1043-2:2011)

### 83.080.10 Termostatična gradiva

#### Međunarodna normizacija (ISO)

- ISO 14898:1999/Amd 1:2011  
Plastics — Aromatic isocyanates for use in the production of polyurethane — Determination of acidity; Amendment 1

### 83.080.20 Termoplastična gradiva

#### Međunarodna normizacija (ISO)

- ISO 19892:2011  
Plastics piping systems — Thermoplastics pipes and fittings for hot and cold water — Test method for the resistance of joints to pressure cycling

### 83.140.10 Filmovi i ploče

#### Međunarodna normizacija (ISO)

- ISO 23559:2011  
Plastics — Film and sheeting — Guidance on the testing of thermoplastic films

### 83.140.99 Drugi gumeni i plastični proizvodi

#### Međunarodna normizacija (ISO)

- ISO 7267-3:2011  
Rubber-covered rollers — Determination of apparent hardness — Part 3: Pusey and Jones method

### 83.200 Oprema za industriju gume i plastike

#### Europska normizacija

- EN 1114-1:2011  
Plastics and rubber machines — Extruders and extrusion lines — Part 1: Safety requirements for extruders

### 85.040 Celuloza

#### Međunarodna normizacija (ISO)

- ISO 12830:2011  
Paper, board and pulps — Determination of acid-soluble magnesium, calcium, manganese, iron, copper, sodium and potassium

### 85.060 Papir i karton

#### Međunarodna normizacija (ISO)

- ISO 534:2011  
Paper and board — Determination of thickness, density and specific volume
- ISO 2493-2:2011  
Paper and board — Determination of bending resistance — Part 2: Taber-type tester
- ISO 3035:2011  
Corrugated fibreboard — Determination of flat crush resistance
- ISO 12830:2011  
Paper, board and pulps — Determination of acid-soluble magnesium, calcium, manganese, iron, copper, sodium and potassium

#### Europska normizacija

- EN ISO 534:2011  
Paper and board — Determination of thickness, density and specific volume (ISO 534:2011)
- EN ISO 3035:2011  
Corrugated fibreboard — Determination of flat crush resistance (ISO 3035:2011)

### 87.040 Boje i lakovi

#### Međunarodna normizacija (ISO)

- ISO 1518-2:2011  
Paints and varnishes — Determination of scratch resistance — Part 2: Variable-loading method

- ISO 12137:2011  
Paints and varnishes – Determination of mar resistance
- ISO 2431:2011  
Paints and varnishes – Determination of flow time by use of flow cups
- ISO 7783:2011  
Paints and varnishes – Determination of water-vapour transmission properties – Cup method

#### **Europska normizacija**

- EN ISO 1518-2:2011  
Paints and varnishes – Determination of scratch resistance – Part 2: Variable-loading method (ISO 1518-2:2011)
- EN ISO 12137:2011  
Paints and varnishes – Determination of mar resistance (ISO 12137:2011)
- EN ISO 2431:2011  
Paints and varnishes – Determination of flow time by use of flow cups (ISO 2431:2011)
- EN ISO 7783:2011  
Paints and varnishes – Determination of water-vapour transmission properties – Cup method (ISO 7783:2011)

### **91.040.01 Zgrade općenito**

#### **Međunarodna normizacija (ISO)**

- ISO 9836:2011  
Performance standards in building – Definition and calculation of area and space indicator
- ISO 15928-4:2011  
Houses – Description of performance – Part 4: Fire safety
- ISO 21929-1:2011  
Sustainability in building construction – Sustainability indicators – Part 1: Framework for the development of indicators and a core set of indicators for buildings

### **91.040.99 Druge građevine**

#### **Europska normizacija**

- EN 15942:2011  
Sustainability of construction works – Environmental product declarations – Communication format business-to-business

### **91.080.01 Konstrukcije zgrada općenito**

#### **Međunarodna normizacija (ISO)**

- ISO 15928-4:2011  
Houses – Description of performance – Part 4: Fire safety

### **91.080.10 Kovinske konstrukcije**

#### **Europska normizacija**

- EN 1090-1:2009+A1:2011  
Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components

### **91.080.20 Drvene konstrukcije**

#### **Međunarodna normizacija (ISO)**

- ISO 8969:2011  
Timber structures – Testing of punched metal plate fasteners and joints

### **91.120.10 Toplinska izolacija**

#### **Međunarodna normizacija (ISO)**

- ISO 15927-5:2004/Amd 1:2011  
Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 5: Data for design heat load for space heating; Amendment 1

#### **Europska normizacija**

- EN ISO 15927-5:2004/A1:2011  
Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 5: Data for design heat load for space heating – Amendment 1 (ISO 15927-5:2004/Amd 1:2011)

### **91.120.30 Vodootpornost**

#### **Međunarodna normizacija (ISO)**

- ISO 15927-5:2004/Amd 1:2011  
Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 5: Data for design heat load for space heating; Amendment 1

#### **Europska normizacija**

- EN ISO 15927-5:2004/A1:2011  
Hygrothermal performance of buildings – Calculation and presentation of climatic data – Part 5: Data for design heat load for space heating – Amendment 1 (ISO 15927-5:2004/Amd 1:2011)

### **91.120.40 Zaštita od groma**

#### **Međunarodna normizacija (IEC)**

- IEC 62561-7:2011  
Lightning protection system components (LPSC) – Part 7: Requirements for earthing enhancing compounds

### **91.140.30 Sustavi prozračivanja i klimatizacije**

#### **Međunarodna normizacija (ISO)**

- ISO 29463-1:2011  
High-efficiency filters and filter media for removing particles in air – Part 1: Classification, performance testing and marking
- ISO 29463-2:2011  
High-efficiency filters and filter media for removing particles in air – Part 2: Aerosol production, measuring equipment and particle-counting statistics
- ISO 29463-3:2011  
High-efficiency filters and filter media for removing particles in air – Part 3: Testing flat sheet filter media
- ISO 29463-4:2011  
High-efficiency filters and filter media for removing particles in air – Part 4: Test method for determining leakage of filter elements-Scan method
- ISO 29463-5:2011  
High-efficiency filters and filter media for removing particles in air – Part 5: Test method for filter elements

## Europska normizacija

EN 14511-1:2011

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms and definitions

EN 14511-3:2011

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 3: Test methods

## 91.140.50 Sustavi opskrbe strujom

### Međunarodna normizacija (IEC)

IEC 60364-4-44:2007/Corr.2:2011

Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances; Corrigendum 2

### Europska normizacija

HD 60364-7-701:2007/AC:2011

Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower; Corrigendum

HD 60364-7-701:2007/A11:2011

Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower

## 91.140.60 Sustavi opskrbe vodom

### Međunarodna normizacija (ISO)

ISO 13056:2011

Plastics piping systems – Pressure systems for hot and cold water – Test method for leaktightness under vacuum

## 91.140.65 Oprema za grijanje vode

### Europska normizacija

EN 60335-2-35:2002/A2:2011

Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters (IEC 60335-2-35:2002/am2:2009, modified)

## 91.140.70 Sanitarne instalacije

### Europska normizacija

HD 60364-7-701:2007/AC:2011

Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower; Corrigendum

HD 60364-7-701:2007/A11:2011

Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower

## 91.140.80 Odvodni sustavi

### Međunarodna normizacija (ISO)

ISO 13272:2011

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with mineral modifiers (PP-MD) and polyethylene (PE) – Specifications for manholes and inspection chambers in traffic areas and underground installations

ISO 11296-7:2011

Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

## 91.140.90 Dizala. Pokretne stube

### Europska normizacija

EN 15700:2011

Safety for conveyor belts for winter sport or leisure use

## 91.160.20 Vanjska rasvjeta

### Međunarodna normizacija (IEC)

IEC 61821:2011

Electrical installations for lighting and beaconing of aerodromes – Maintenance of aeronautical ground lighting constant current series circuits

## 91.190 Građevni pribor

### Europska normizacija

EN 13126-1:2011

Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 1: Requirements common to all types of hardware

EN 13126-3:2011

Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 3: Handles, primarily for Tilt&Turn, Tilt-First and Turn-Only hardware

EN 13126-5:2011

Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 5: Devices that restrict the opening of windows and door height windows

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Međunarodna normizacija (ISO)

ISO 22476-2:2005/Amd 1:2011

Geotechnical investigation and testing – Field testing – Part 2: Dynamic probing; Amendment 1

ISO 22476-3:2005/Amd 1:2011

Geotechnical investigation and testing – Field testing – Part 3: Standard penetration test; Amendment 1

### Europska normizacija

EN ISO 22476-2:2005/A1:2011

Geotechnical investigation and testing – Field testing – Part 2: Dynamic probing – Amendment 1 (ISO 22476-2:2005/Amd 1:2011)

EN ISO 22476-3:2005/A1:2011

Geotechnical investigation and testing – Field testing – Part 3: Standard penetration test – Amendment 1 (ISO 22476-3:2005/Amd 1:2011)

## 93.030 Vanjska kanalizacija

### Međunarodna normizacija (ISO)

ISO 13272:2011

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with mineral modifiers (PP-MD) and polyethylene (PE) – Specifications for manholes and inspection chambers in traffic areas and underground installations

ISO 11296-7:2011

Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

## 93.080.40 Rasvjeta ulica i srodna oprema

### Međunarodna normizacija (IEC)

IEC 60598-2-3:2002+A1:2011

Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting

## 93.100 Gradnja željezničkih pruga

### Europska normizacija

EN 13232-2:2003+A1:2011

Railway applications – Track – Switches and crossings – Part 2: Requirements for geometric design

EN 13232-3:2003+A1:2011

Railway applications – Track – Switches and crossings – Part 3: Requirements for wheel/rail interaction

EN 13232-4:2005+A1:2011

Railway applications – Track – Switches and crossings – Part 4: Actuation, locking and detection

EN 13232-5:2005+A1:2011

Railway applications – Track – Switches and crossings – Part 5: Switches

EN 13232-6:2005+A1:2011

Railway applications – Track – Switches and crossings – Part 6: Fixed common and obtuse crossings

EN 13232-7:2006+A1:2011

Railway applications – Track – Switches and crossings – Part 7: Crossings with moveable parts

EN 13232-8:2007+A1:2011

Railway applications – Track – Switches and crossings – Part 8: Expansion devices

EN 13232-9:2006+A1:2011

Railway applications – Track – Switches and crossings – Part 9: Layouts

EN 14033-3:2009+A1:2011

Railway applications – Track – Railbound construction and maintenance machines – Part 3: General safety requirements

## 93.120 Gradnja zračnih luka

### Međunarodna normizacija (IEC)

IEC 61821:2011

Electrical installations for lighting and beaconing of aerodromes – Maintenance of aeronautical ground lighting constant current series circuits

## 95.020 Vojna tehnika. Vojni poslovi. Oružje

### Međunarodna normizacija (IEC)

IEC 60704-2-4:2011

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-4: Particular requirements for washing machines and spin extractors

### Europska normizacija

CWA 15517:2011

European Handbook for Defence Procurement

EN 1458-1:2011

Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW – Part 1: Safety

## 97.030 Kućanska električna oprema općenito

### Europska normizacija

EN 60335-1:2002/A15:2011

Household and similar electrical appliances – Safety – Part 1: General requirements

## 97.060 Praonički uređaji

### Međunarodna normizacija (IEC)

IEC 60456:2010/Corr.1:2011

Clothes washing machines for household use – Methods for measuring the performance

## 97.080 Uređaji za čišćenje podova

### Međunarodna normizacija (IEC)

IEC 60312-1:2010+A1:2011

Vacuum cleaners for household use – Part 1: Dry vacuum cleaners – Methods for measuring the performance

## 97.180 Razna kućanska oprema

### Međunarodna normizacija (ISO)

ISO 9177-1:2011

Mechanical pencils – Part 1: Classification, dimensions, performance requirements and testing

## 97.195 Umjetnički i obrtnički predmeti

### Europska normizacija

EN 15759-1:2011

Conservation of cultural property – Indoor climate – Part 1: Guidelines for heating churches, chapels and other places of worship

## 97.200.30 Oprema za logore i logorišta

### Međunarodna normizacija (ISO)

ISO 5912:2011

Camping tents

ISO 10966:2011

Sports and recreational equipment – Fabrics for awnings – Specification

### Europska normizacija

EN ISO 5912:2011

Camping tents (ISO 5912:2011)

## 97.200.50 Igračke

### Europska normizacija

EN 71-8:2011

Safety of toys – Part 8: Activity toys for domestic use

EN 62115:2005/A2:2011/AC:2011

Electric toys – Safety