

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

6/2011 prosinac, 2011.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrtu 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, molí 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

# 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 5, *Metalne cijevi i priključci*

HRI CEN/TR 16017:2011 en pr  
Uputa za korištenje norme EN 598  
(CEN/TR 16017:2010)  
Guide to the use of EN 598 (CEN/TR 16017:2010)

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

HRN EN ISO 12625-1:2011 en pr  
Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 1. dio: Opće smjernice o nazivlju (ISO 12625-1:2011; EN ISO 12625-1:2011)  
Tissue paper and tissue products – Part 1: General guidance on terms (ISO 12625-1:2011; EN ISO 12625-1:2011)

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

HRS CEN/TS 14972:2011 en pr  
Stabilni protupožarni sustavi – Sustavi vodene magle – Projektiranje i ugradnja (CEN/TS 14972:2011)  
Fixed firefighting systems – Watermist systems – Design and installation (CEN/TS 14972:2011)  
HRN EN 15889:2011 en pr  
Vatrogasne cijevi – Metode ispitivanja (EN 15889:2011)  
Fire-fighting hoses – Test methods (EN 15889:2011)

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

HRN EN ISO 4254-1:2010/Ispr.1:2011 en pr  
Poljoprivredna mehanizacija – Sigurnost – 1. dio: Opći zahtjevi (EN ISO 4254-1:2009/AC:2010)  
Agricultural machinery – Safety – Part 1: General requirements (EN ISO 4254-1:2009/AC:2010)  
HRN EN ISO 4254-5:2010/Ispr.1:2011 en pr  
Poljoprivredna mehanizacija – Sigurnost – 5. dio: Pokretani strojevi i oruđa za obradu tla (EN ISO 4254-5:2009/AC:2011)  
Agricultural machinery – Safety – Part 5: Power-driven soil-working machines (EN ISO 4254-5:2009/AC:2011)  
HRN EN ISO 4254-6:2010/Ispr.1:2011 en pr  
Poljoprivredna mehanizacija – Sigurnost – 6. dio: Prskalice i raspodjeljivači tekućih gnojiva (EN ISO 4254-6:2009/AC:2010)  
Agricultural machinery – Safety – Part 6: Sprayers and liquid fertilizer distributors (EN ISO 4254-6:2009/AC:2010)  
HRN EN ISO 4254-7:2010/Ispr.1:2011 en pr  
Poljoprivredna mehanizacija – Sigurnost – 7. dio: Kombajni za žito, krmu i pamuk (EN ISO 4254-7:2009/AC:2010)  
Agricultural machinery – Safety – Part 7: Combine harvesters, forage harvesters and cotton harvesters (EN ISO 4254-7:2009/AC:2010)

HRN EN ISO 4254-10:2010/Ispr.1:2011 en pr  
Agricultural machinery – Safety – Part 10: Rotary tedders and rakes (EN ISO 4254-10:2009/AC:2010)

HRN EN ISO 8224-1:2008/A1:2011 en pr  
Traveller irrigation machines – Part 1: Operational characteristics and laboratory and field test methods – Amendment 1 (ISO 8224-1:2003/Amd 1:2011; EN ISO 8224-1:2003/A1:2011)

HRN EN 15811:2010/Ispr.1:2011 en pr  
Poljoprivredna mehanizacija – Štitnici pokretnih dijelova za prijenos snage – Štitnici koji se otvaraju pomoću alata (EN 15811:2009/AC:2010)  
Agricultural machinery – Guards for moving parts of power transmission – Guard opening with tool (EN 15811:2009/AC:2010)

### HZN/TO 25, *Ljevarstvo*

HRN EN 1370:2011 en pr  
Ljevarstvo – Ispitivanje stanja površine (EN 1370:2011)  
Founding – Examination of surface condition (EN 1370:2011)

HRN EN 1563:2011 en pr  
Ljevarstvo – Nodularni lijevovi (EN 1563:2011)  
Founding – Spheroidal graphite cast irons (EN 1563:2011)

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

HRN EN ISO 20846:2011 en pr  
Naftni proizvodi – Određivanje količine sumpora u gorivima za motorna vozila – Metoda ultraljubičaste fluorescencije (ISO 20846:2011; EN ISO 20846:2011)  
Petroleum products – Determination of sulfur content of automotive fuels – Ultraviolet fluorescence method (ISO 20846:2011; EN ISO 20846:2011)

HRN DIN 51603-1:2011 de pr  
Tekuća goriva – Loživa ulja – 1. dio: Loživo ulje EL (ekstra lako), specifikacije (DIN 51603-1:2011)  
Flüssige Brennstoffe – Heizöl – Teil 1: Heizöl EL, Mindestanforderungen (DIN 51603-1:2011)

### HZN/TO 34/PO 7, *Poljoprivredni i prehrambeni proizvodi; Kava, čaj, mirodije i začini*

HRN ISO 8455:2011 en pr  
Sirova kava – Smjernice za skladištenje i transport (ISO 8455:2011)  
Green coffee – Guidelines for storage and transport (ISO 8455:2011)

HRN ISO 24114:2011 en pr  
Instant kava – Kriteriji autentičnosti (ISO 24114:2011)  
Instant coffee – Criteria for authenticity (ISO 24114:2011)

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

HRN EN 1598:2011 en pr  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Prozirni zastori za zavarivanje, trake i zasloni za postupke elektrodučnog zavarivanja (EN 1598:2011)

Health and safety in welding and allied processes – Transparent welding curtains, strips and screens for arc welding processes (EN 1598:2011)

HRN EN ISO 10863:2011 en pr  
Nerazorno ispitivanje zavarenih spojeva – Ultrazvučno ispitivanje – Upotreba tehnike difrakcije (TOFD) (ISO 10863:2011; EN ISO 10863:2011)  
Non-destructive testing of welds – Ultrasonic testing – Use of time-of-flight diffraction technique (TOFD) (ISO 10863:2011; EN ISO 10863:2011)

HRN EN ISO 14271:2011 en pr  
Elektrootporno zavarivanje – Ispitivanje tvrdoće prema Vickersu (malo opterećenje i mikrotvrdoća) elektrootporno zavarenih točkastih, bradavičastih i šavnih spojeva (ISO 14271:2011; EN ISO 14271:2011)

Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds (ISO 14271:2011; EN ISO 14271:2011)

HRN EN ISO 14372:2011 en pr  
Dodatni i potrošni materijali za zavarivanje – Određivanje otpornosti na vlagu elektroda za ručno elektrolučno zavarivanje mjerenjem difundiranog vodika (ISO 14372:2011; EN ISO 14372:2011)  
Welding consumables – Determination of moisture resistance of manual metal arc welding electrodes by measurement of diffusible hydrogen (ISO 14372:2011; EN ISO 14372:2011)

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

HRI CR 213:2011 en pr  
Ploče iverice – Određivanje emisije formaldehida u određenim uvjetima – Metoda zvana: metoda emisije formaldehida (CR 213:1984)  
Particle boards – Determination of formaldehyde emission under specified conditions – Method called: formaldehyde emission method (CR 213:1984)

HRS CEN/TS 635-4:2011 en pr  
Uslojeno drvo – Razredba prema vanjskome izgledu površine – 4. dio: Parametri utvrđivanja prikladnosti za završnu obradbu, smjernica (CEN/TS 635-4:2007)  
Plywood – Classification by surface appearance – Part 4: Parameters of ability for finishing, guideline (CEN/TS 635-4:2007)

HRS CEN/TS 1099:2011 en pr  
Uslojeno drvo – Biološka trajnost – Smjernice za ocjenu upotrebljivosti uslojenoga drva u različitim uporabnim razredima (CEN/TS 1099:2007)  
Plywood – Biological durability – Guidance for the assessment of plywood for use in different use classes (CEN/TS 1099:2007)

HRS CEN/TS 12872:2011 en pr  
Ploče na osnovi drva – Smjernice za uporabu nosivih ploča za podove, zidove i krovove (CEN/TS 12872:2007)  
Wood-based panels – Guidance on the use of load-bearing boards in floors, walls and roofs (CEN/TS 12872:2007)

HRS CEN/TS 13810-2:2011 en pr  
Ploče na osnovi drva – Plivajući podovi – 2. dio: Metode ispitivanja (CEN/TS 13810-2:2003)  
Wood-based panels – Floating floors – Part 2: Test methods (CEN/TS 13810-2:2003)

HRS CEN/TS 14966:2011 en pr  
Ploče na osnovi drva – Indikativne metode ispitivanja malog razmjera za određena mehanička svojstva (CEN/TS 14966:2005)  
Wood-based panels – Small scale indicative test methods for certain mechanical properties (CEN/TS 14966:2005)

### HZN/TO 92, *Zaštita od požara*

HRN EN 1366-10:2011 en pr  
Ispitivanja otpornosti na požar servisnih instalacija – 10. dio: Zaklopke za upravljanje dimom (EN 1366-10:2011)  
Fire resistance tests for service installations – Part 10: Smoke control dampers (EN 1366-10:2011)

HRN EN 15254-4:2011 en pr  
Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 4. dio: Ostakljene konstrukcije (EN 15254-4:2008+A1:2011)  
Extended application of results from fire resistance tests – Non-loadbearing walls – Part 4: Glazed constructions (EN 15254-4:2008+A1:2011)

### HZN/TO 108, *Mehaničke vibracije i udari*

HRN ISO 1940-1:2011 en pr  
Mehaničke vibracije – Zahtjevi za kakvoću uravnoteživanja rotora u postojanom (krutom) stanju – 1. dio: Specifikacija i verifikacija dopuštenih odstupanja uravnoteženosti (ISO 1940-1:2003+Cor 1:2005)  
Mechanical vibration – Balance quality requirements for rotors in a constant (rigid) state – Part 1: Specification and verification of balance tolerances (ISO 1940-1:2003+Cor 1:2005)

### HZN/TO 120, *Koža i obuća*

HRN EN ISO 17071:2011 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje svojstva zamagljivanja (ISO 17071:2006; EN ISO 17071:2011)  
Leather – Physical and mechanical tests – Determination of fogging characteristics (ISO 17071:2006; EN ISO 17071:2011)

HRN EN ISO 17074:2011 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na horizontalno širenje plamena (ISO 17074:2006; EN ISO 17074:2011)  
Leather – Physical and mechanical tests – Determination of resistance to horizontal spread of flame (ISO 17074:2006; EN ISO 17074:2011)

HRN EN ISO 17230:2011 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje pritiska prodora vode (ISO 17230:2006; EN ISO 17230:2011)  
Leather – Physical and mechanical tests – Determination of water penetration pressure (ISO 17230:2006; EN ISO 17230:2011)

HRN EN ISO 17231:2011 en pr  
Koža – Fizikalna i mehanička ispitivanja – Određivanje vodoodbojnosti odjeće od kože (ISO 17231:2006; EN ISO 17231:2011)  
Leather – Physical and mechanical tests – Determination of water repellency of garment leather (ISO 17231:2006; EN ISO 17231:2011)

HRN EN ISO 20877:2011 en pr  
Obuća – Metode ispitivanja cijele cipele – Toplinska izolacija (ISO 20877:2011; EN ISO 20877:2011)  
Footwear – Test methods for whole shoe – Thermal insulation (ISO 20877:2011; EN ISO 20877:2011)

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

HRN EN 15962:2011 en pr  
Gnojiva – Određivanje udjela kompleksiranih mikro hranjiva (EN 15962:2011)  
Fertilizers – Determination of the complexed micro-nutrient content and of the complexed fraction of micro-nutrients (EN 15962:2011)

HRN EN 16024:2011 en pr  
Gnojiva – Određivanje 1H-1,2,4-triazola u urei i u gnojivima koja sadrže ureu – Metoda tekućinske kromatografije visokog učinka (HPLC) (EN 16024:2011)  
Fertilizers – Determination of 1H-1,2,4-triazole in urea and in fertilizers containing urea – Method using high-performance liquid chromatography (HPLC) (EN 16024:2011)

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

HRN EN 16016-1:2011 en pr  
Nerazorno ispitivanje – Metode zračenja – Računalna tomografija – 1. dio: Nazivlje (EN 16016-1:2011)  
Non destructive testing – Radiation methods – Computed tomography – Part 1: Terminology (EN 16016-1:2011)

- HRN EN 16016-2:2011 en pr  
Nerazorno ispitivanje – Metode zračenja – Računalna tomografija – 2. dio: Načelo, oprema i uzorci (EN 16016-2:2011)  
Non destructive testing – Radiation methods – Computed tomography – Part 2: Principle, equipment and samples (EN 16016-2:2011)
- HRN EN 16016-3:2011 en pr  
Nerazorno ispitivanje – Metode zračenja – Računalna tomografija – 3. dio: Provedba i tumačenje (EN 16016-3:2011)  
Non destructive testing – Radiation methods – Computed Tomography – Part 3: Operation and interpretation (EN 16016-3:2011)
- HRN EN 16016-4:2011 en pr  
Nerazorno ispitivanje – Metode zračenja – Računalna tomografija – 4. dio: Kvalifikacija (EN 16016-4:2011)  
Non destructive testing – Radiation methods – Computed tomography – Part 4: Qualification (EN 16016-4:2011)

### **HZN/TO 136, Namještaj**

- HRN EN 15939:2011 en pr  
Okov za namještaj – Čvrstoća i nosivost opreme koja se stavlja na zid (EN 15939:2011)  
Hardware for furniture – Strength and loading capacity of wall attachment devices (EN 15939:2011)
- HRN EN 16014:2011 en pr  
Okov za namještaj – Čvrstoća i izdržljivost mehanizma za zaključavanje (EN 16014:2011)  
Hardware for furniture – Strength and durability of locking mechanisms (EN 16014:2011)

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

- HRN EN 12201-1:2011 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 1. dio: Općenito (EN 12201-1:2011)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 1: General (EN 12201-1:2011)
- HRN EN 12201-2:2011 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi (EN 12201-2:2011)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes (EN 12201-2:2011)
- HRN EN 12201-3:2011 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 3. dio: Spojnice (EN 12201-3:2011)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 3: Fittings (EN 12201-3:2011)
- HRN EN 12201-5:2011 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 5. dio: Prikladnost sustava za uporabu (EN 12201-5:2011)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 5: Fitness for purpose of the system (EN 12201-5:2011)
- HRN EN ISO 13229:2011 en pr  
Plastomerni cijevni sustavi za netlačnu primjenu – Cijevi i spojnice od neomekšanog poli(vinil-klorida) (PVC-U) – Određivanje viskoznog broja i K-vrijednosti (ISO 13229:2010; EN ISO 13229:2011)  
Thermoplastics piping systems for non-pressure applications – Unplasticized poly(vinyl chloride) (PVC-U) pipes and fittings – Determination of the viscosity number and K-value (ISO 13229:2010; EN ISO 13229:2011)

- HRN EN ISO 13260:2011 en pr  
Plastomerni cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Metoda ispitivanja za otpornost na istodobnu cikličku promjenu temperature i vanjskog opterećenja (ISO 13260:2010; EN ISO 13260:2011)  
Thermoplastics piping systems for non-pressure underground drainage and sewerage – Test method for resistance to combined temperature cycling and external loading (ISO 13260:2010; EN ISO 13260:2011)

### **HZN/TO 146, Kvaliteta zraka**

- HRN EN 1540:2011 en pr  
Profesionalna izloženost – Nazivlje (EN 1540:2011)  
Workplace exposure – Terminology (EN 1540:2011)

### **HZN/TO 147/PO 6, Kvaliteta vode; Uzorkovanje (opće metode)**

- HRN ISO 5667-5:2011 en pr  
Kvaliteta vode – Uzorkovanje – 5. dio: Upute za uzorkovanje vode za piće iz uređaja za pročišćavanje i cjevovodnih opskrbnih sustava (ISO 5667-5:2006)  
Water quality – Sampling – Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems (ISO 5667-5:2006)
- HRN ISO 5667-6:2011 en pr  
Kvaliteta vode – Uzorkovanje – 6. dio: Upute za uzorkovanje vode rijeka i potoka (ISO 5667-6:2005)  
Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams (ISO 5667-6:2005)
- HRN ISO 5667-11:2011 en pr  
Kvaliteta vode – Uzorkovanje – 11. dio: Upute za uzorkovanje podzemnih voda (ISO 5667-11:2009)  
Water quality – Sampling – Part 11: Guidance on sampling of groundwaters (ISO 5667-11:2009)
- HRN ISO 5667-17:2011 en pr  
Kvaliteta vode – Uzorkovanje – 17. dio: Upute za uzorkovanje raspršenih krutina (ISO 5667-17:2008)  
Water quality – Sampling – Part 17: Guidance on sampling of bulk suspended solids (ISO 5667-17:2008)
- HRN ISO 5667-20:2011 en pr  
Kvaliteta vode – Uzorkovanje – 20. dio: Upute za uporabu podataka uzorkovanja u odlučivanju – Sukladnost s graničnim vrijednostima i klasifikacijskim sustavima (ISO 5667-20:2008)  
Water quality – Sampling – Part 20: Guidance on the use of sampling data for decision making – Compliance with thresholds and classification systems (ISO 5667-20:2008)
- HRN ISO 5667-21:2011 en pr  
Kvaliteta vode – Uzorkovanje – 21. dio: Upute za uzorkovanje vode za piće distribuirane cisternama ili drugim sredstvima isključujući distribucijske cijevi (ISO 5667-21:2010)  
Water quality – Sampling – Part 21: Guidance on sampling of drinking water distributed by tankers or means other than distribution pipes (ISO 5667-21:2010)
- HRN ISO 5667-22:2011 en pr  
Kvaliteta vode – Uzorkovanje – 22. dio: Upute za osmišljavanje i postavljanje nadzornih točaka za podzemnu vodu (ISO 5667-22:2010)  
Water quality – Sampling – Part 22: Guidance on the design and installation of groundwater monitoring points (ISO 5667-22:2010)

### **HZN/TO 165, Drvene konstrukcije**

- HRN EN 594:2011 en pr  
Drvene konstrukcije – Metode ispitivanja – Određivanje nosivosti i krutosti drvenih okvirnih zidnih panela (EN 594:2011)  
Timber structures – Test methods – Racking strength and stiffness of timber frame wall panels (EN 594:2011)

HRN EN 912:2011 en pr  
Spajala za drvo — Specifikacije za moždanike posebne izvedbe za drvo (EN 912:2011)  
Timber fasteners — Specifications for connectors for timbers (EN 912:2011)

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

HRN EN 1090-2:2011 en pr  
Izvedba čeličnih i aluminijevih konstrukcija — 2. dio: Tehnički zahtjevi za čelične konstrukcije (EN 1090-2:2008+A1:2011)  
Execution of steel structures and aluminium structures — Part 2: Technical requirements for steel structures (EN 1090-2:2008+A1:2011)

### **HZN/TO 179, Zidane konstrukcije**

HRN EN 1520:2011 en pr  
Predgotovljeni armirani elementi od betona otvorene strukture s laganim agregatom s konstrukcijskim ili nekonstrukcijskim ojačanjem (EN 1520:2011)  
Prefabricated reinforced components of lightweight aggregate concrete with open structure with structural or non-structural reinforcement (EN 1520:2011)

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

HRN EN 1971-1:2011 en pr  
Bakar i legure bakra — Ispitivanje vrtložnim strujama radi mjerenja grešaka na bešavnim okruglim cijevima od bakra i legura bakra — 1. dio: Ispitivanje obuhvatnom ispitnom zavojnicom na vanjskoj površini (EN 1971-1:2011)  
Copper and copper alloys — Eddy current test for measuring defects on seamless round copper and copper alloy tubes — Part 1: Test with an encircling test coil on the outer surface (EN 1971-1:2011)

HRN EN 1971-2:2011 en pr  
Bakar i legure bakra — Ispitivanje vrtložnim strujama radi mjerenja grešaka na bešavnim okruglim cijevima od bakra i legura bakra — 2. dio: Ispitivanje unutrašnjom ispitnom zavojnicom na unutrašnjoj površini (EN 1971-2:2011)  
Copper and copper alloys — Eddy current test for measuring defects on seamless round copper and copper alloy tubes — Part 2: Test with an internal test coil on the inner surface (EN 1971-2:2011)

HRI CEN/TR 10353:2011 en pr  
Kemijska analiza materijala na bazi željeza — Analiza fero-silicija — Određivanje aluminija, titanija i fosfora pomoću optičke emisijske spektrometrije induktivnom spregnutom plazmom (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 10353:2011)

HRN EN 16090:2011 en pr  
Bakar i legure bakra — Procjena prosječne veličine zrna ultrazvukom (EN 16090:2011)  
Copper and copper alloys — Estimation of average grain size by ultrasound (EN 16090:2011)

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

HRN EN ISO 7539-6:2011 en pr  
Korozija metala i legura — Ispitivanje korozije uz naprezanje — 6. dio: Priprema i primjena uzoraka s urezom za ispitivanja pod stalnim opterećenjem ili stalnim pomakom (ISO 7539-6:2011; 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; EN ISO 7539-6:2011)

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

HRN EN 15102:2011 en pr  
Dekoratívni zidni pokrovi — Role i ploče (EN 15102:2007+A1:2011)  
Decorative wall coverings — Roll and panel form (EN 15102:2007+A1:2011)

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

HRI CEN/TR 16176:2011 en pr  
Characterization of waste — Screening methods for elemental composition by X-ray fluorescence spectrometry for on-site verification (CEN/TR 16176:2011)

HRN EN 16192:2011 en pr  
Karakterizacija otpada — Analiza eluata (EN 16192:2011)  
Characterization of waste — Analysis of eluates (EN 16192:2011)

### **HZN/TO 524, Cestovni prijevoz i prometna telematika**

HRS CEN ISO/TS 13143-2:2011 en pr  
Elektronička naplata — Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom ISO/TS 12813 — 2. dio: Apstraktni ispitni paket (ISO/TS 13143-2:2011; CEN ISO/TS 13143-2:2011)  
Electronic fee collection — Evaluation of on-board and roadside equipment for conformity to ISO/TS 12813 — Part 2: Abstract test suite (ISO/TS 13143-2:2011; CEN ISO/TS 13143-2:2011)

HRN EN ISO 14825:2011 en pr  
Inteligentni transportni sustavi — Datoteke zemljopisnih podataka — GDF5.0 (ISO 14825:2011; EN ISO 14825:2011)  
Intelligent transport systems — Geographic Data Files (GDF) — GDF5.0 (ISO 14825:2011; EN ISO 14825:2011)

HRS CEN/TS 15213-6:2011 en pr  
Cestovni prijevoz i prometna telematika — Servisi za obnovu pronađenih ukradenih vozila — 6. dio: Ispitni postupci (CEN/TS 15213-6:2011)  
Road transport and traffic telematics — After-theft services for the recovery of stolen vehicles — Part 6: Test procedures (CEN/TS 15213-6:2011)

HRS CEN/TS 15531-4:2011 en pr  
Javni prijevoz — Sučelje servisa za informiranje o statusu javnoga prijevoza u realnom vremenu — 4. dio: Funkcionalno sučelje servisa: Nadgledanje postrojenja (CEN/TS 15531-4:2011)  
Public transport — Service interface for real-time information relating to public transport operations — Part 4: Functional service interfaces: Facility Monitoring (CEN/TS 15531-4:2011)

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

HRN EN 12326-2:2011 en pr  
Škriljevac i prirodni kamen za preklapno pokrivanje krovova i vanjsko oblaganje zidova — 2. dio: Metode ispitivanja škriljevca i škriljevca sa sadržajem karbonata (EN 12326-2:2011)  
Slate and stone for discontinuous roofing and external cladding — Part 2: Methods of test for slate and carbonate slate (EN 12326-2:2011)

HRN EN 15814:2011 en pr  
Polimerom modificirani bitumenski debeloslojni premazi za hidroizolaciju — Definicije i zahtjevi (EN 15814:2011)  
Polymer modified bituminous thick coatings for waterproofing — Definitions and requirements (EN 15814:2011)

## HZN/TO 526, *Bitumenska veziva*

- HRN EN CEN/TR 15352:2011 en pr  
Bitumen i bitumenska veziva – Razvoj specifikacija vezanih uz ponašanje – Izvještaj 2005 (CEN/TR 15352:2006)  
Bitumen and bituminous binders – Development of performance-related specifications – Status report 2005 (CEN/TR 15352:2006)

## HZN/TO 528, *Oprema za željeznice*

- HRN EN 14033-3:2011 en pr  
Oprema za željeznice – Željeznički gornji stroj – Kolosiječni strojevi za gradnju i održavanje – 3. dio: Opći sigurnosni zahtjevi (EN 14033-3:2009+A1:2011)  
Railway applications – Track – Railbound construction and maintenance machines – Part 3: General safety requirements (EN 14033-3:2009+A1:2011)
- HRN EN 14535-1:2011 en pr  
Oprema za željeznice – Kočni diskovi za vozni park – 1. dio: Kočni diskovi, naprešani ili toplo navučeni na osovine ili vratila, dimenzije i zahtjevi za kvalitetu (EN 14535-1:2005+A1:2011)  
Railway applications – Brake discs for railway rolling stock – Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements (EN 14535-1:2005+A1:2011)
- HRN EN 14535-2:2011 en pr  
Oprema za željeznice – Kočni diskovi za vozni park – 2. dio: Kočni diskovi, postavljeni na kotače, dimenzije i zahtjevi za kvalitetu (EN 14535-2:2011)  
Railway applications – Brake discs for railway rolling stock – Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements (EN 14535-2:2011)
- HRN EN 15220-1:2011 en pr  
Oprema za željeznice – Pokazivači kočnice – 1. dio: Pneumatski upravljani pokazivači kočnice (EN 15220-1:2008+A1:2011)  
Railway applications – Brake indicators – Part 1: Pneumatically operated brake indicators (EN 15220-1:2008+A1:2011)
- HRN EN 15595:2011 en pr  
Oprema za željeznice – Kočenje – Zaštita od proklizavanja (EN 15595:2009+A1:2011)  
Railway applications – Braking – Wheel slide protection (EN 15595:2009+A1:2011)

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

- HRN EN ISO 4671:2008/A1:2011 en pr  
Gumena i plastična crijeva i crijevni uređaji – Metode mjerenja dimenzija crijeva i dužina crijevnih uređaja – Amandman 1: Objašnjenje pozicije na kojoj se mjeri vanjski promjer (ISO 4671:2007/Amd 1:2011; EN ISO 4671:2007/A1:2011)  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies – Amendment 1: Clarification of position at which outside diameter is measured (ISO 4671:2007/Amd 1:2011; EN ISO 4671:2007/A1:2011)
- HRN EN ISO 6224:2011 en pr  
Plastomerna crijeva opće namjene za vodu ojačana tekstilom – Specifikacija (ISO 6224:2011; EN ISO 6224:2011)  
Thermoplastics hoses, textile-reinforced, for general-purpose water applications – Specification (ISO 6224:2011; EN ISO 6224:2011)
- HRN EN 26801:2008/A1:2011 en pr  
Gumena ili plastična crijeva – Određivanje volumnog širenja – Amandman 1: Ukidanje alkohola kao tlačnog fluida (ISO 6801:1983/Amd 1:2011; EN 26801:1993/A1:2011)

Rubber or plastics hoses – Determination of volumetric expansion – Amendment 1: Deletion of alcohol as pressurizing fluid (ISO 6801:1983/Amd 1:2011; EN 26801:1993/A1:2011)

- HRN EN ISO 30013:2011 en pr  
Gumena i plastična crijeva – Metode izlaganja laboratorijskim izvorima svjetla – Određivanje promjena boje, izgleda i drugih fizikalnih svojstava (ISO 30013:2011; 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; EN ISO 30013:2011)

## HZN/TO 544, *Strojni elementi*

- HRN EN ISO 1580:2011 en pr  
Vijci valjkaste glave s urezom – Proizvod kvalitete izrade A (ISO 1580:2011; EN ISO 1580:2011)  
Slotted pan head screws – Product grade A (ISO 1580:2011; EN ISO 1580:2011)
- HRN EN ISO 2009:2011 en pr  
Vijci s upuštenom ravnom glavom s urezom (uobičajeni oblik glave) – Proizvod razreda A (ISO 2009:2011; EN ISO 2009:2011)  
Slotted countersunk flat head screws – Product grade A (ISO 2009:2011; EN ISO 2009:2011)
- HRN EN ISO 2010:2011 en pr  
Vijci s upuštenom glavom oblika leće s urezom (uobičajeni oblik glave) – Proizvod razreda A (ISO 2010:2011; EN ISO 2010:2011)  
Slotted raised countersunk head screws – Product grade A (ISO 2010:2011; EN ISO 2010:2011)
- HRN EN ISO 7045:2011 en pr  
Vijci s valjkastom zaobljenom glavom s križnim upustom tipa H ili Z – Proizvod razreda A (ISO 7045:2011; EN ISO 7045:2011)  
Pan head screws with type H or type Z cross recess – Product grade A (ISO 7045:2011; EN ISO 7045:2011)
- HRN EN ISO 7046-1:2011 en pr  
Vijci s upuštenom ravnom glavom (uobičajeni oblik glave) s križnim upustom tipa H ili Z – Proizvod razreda A – 1. dio: Čelik razreda čvrstoće 4.8 (ISO 7046-1:2011; EN ISO 7046-1:2011)  
Countersunk flat head screws (common head style) with type H or type Z cross recess – Product grade A – Part 1: Steel of property class 4.8 (ISO 7046-1:2011; EN ISO 7046-1:2011)
- HRN EN ISO 7046-2:2011 en pr  
Vijci s upuštenom ravnom glavom s križnim upustom (uobičajeni oblik glave) – Razred A – 2. dio: Čelični vijci razreda čvrstoće 8.8, vijci od nehrđajućeg čelika i vijci od neželjeznih metala (ISO 7046-2:2011; EN ISO 7046-2:2011)  
Countersunk flat head screws (common head style) with type H or type Z cross recess – Product grade A – Part 2: Steel screws of property class 8.8, stainless steel screws and non-ferrous metal screws (ISO 7046-2:2011; EN ISO 7046-2:2011)
- HRN EN ISO 7047:2011 en pr  
Vijci s upuštenom glavom oblika leće (uobičajeni oblik glave) s križnim upustom tipa H ili Z – Proizvod razreda A (ISO 7047:2011; EN ISO 7047:2011)  
Raised countersunk head screws (common head style) with type H or type Z cross recess – Product grade A (ISO 7047:2011; EN ISO 7047:2011)

## HZN/TO 548, *Konstruktivski eurokodovi*

- HRN EN 1998-1:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 1. dio: Opća pravila, potresna djelovanja i pravila za zgrade (EN 1998-1:2004+AC:2009)  
Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings (EN 1998-1:2004+AC:2009)

- HRN EN 1998-1:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 1. dio: Opća pravila, potresna djelovanja i pravila za zgrade – Nacionalni dodatak Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings – National Annex
- HRN EN 1998-2:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 2. dio: Mostovi (EN 1998-2:2005+AC:2010+A1:2009+A2:2011) Eurocode 8: Design of structures for earthquake resistance – Part 2: Bridges (EN 1998-2:2005+AC:2010+A1:2009+A2:2011)
- HRN EN 1998-2:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 2. dio: Mostovi – Nacionalni dodatak Eurocode 8: Design of structures for earthquake resistance – Part 2: Bridges – National Annex
- HRN EN 1998-3:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 3. dio: Ocjenjivanje i obnova zgrada (EN 1998-3:2005+AC:2010) Eurocode 8: Design of structures for earthquake resistance – Part 3: Assessment and retrofitting of buildings (EN 1998-3:2005+AC:2010)
- HRN EN 1998-3:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 3. dio: Ocjenjivanje i obnova zgrada – Nacionalni dodatak Eurocode 8: Design of structures for earthquake resistance – Part 3: Assessment and retrofitting of buildings – National Annex
- HRN EN 1998-4:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 4. dio: Silosi, spremnici i cjevovodi (EN 1998-4:2006) Eurocode 8: Design of structures for earthquake resistance – Part 4: Silos, tanks and pipelines (EN 1998-4:2006)
- HRN EN 1998-4:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 4. dio: Silosi, spremnici i cjevovodi – Nacionalni dodatak Eurocode 8: Design of structures for earthquake resistance – Part 4: Silos, tanks and pipelines – National Annex
- HRN EN 1998-5:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 5. dio: Temelji, potporne konstrukcije i geotehnička pitanja (EN 1998-5:2004) Eurocode 8: Design of structures for earthquake resistance – Part 5: Foundations, retaining structures and geotechnical aspects (EN 1998-5:2004)
- HRN EN 1998-5:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 5. dio: Temelji, potporne konstrukcije i geotehnička pitanja – Nacionalni dodatak Eurocode 8: Design of structures for earthquake resistance – Part 5: Foundations, retaining structures and geotechnical aspects – National Annex
- HRN EN 1998-6:2011 hr pp  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 6. dio: Tornjevi, jarboli i dimnjaci (EN 1998-6:2005) Eurocode 8: Design of structures for earthquake resistance – Part 6: Towers, masts and chimneys (EN 1998-6:2005)
- HRN EN 1998-6:2011/NA:2011 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 6. dio: Tornjevi, jarboli i dimnjaci – Nacionalni dodatak

Eurocode 8: Design of structures for earthquake resistance – Part 6: Towers, masts and chimneys – National Annex

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

- HRN EN 16003:2011 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kalcijev magnezijev karbonat (EN 16003:2011) Chemicals used for treatment of water intended for human consumption – Calcium magnesium carbonate (EN 16003:2011)
- HRN EN 16004:2011 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Magnezijev oksid (EN 16004:2011) Chemicals used for treatment of water intended for human consumption – Magnesium oxide (EN 16004:2011)

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

- HRN ISO 9836:2011 en pr  
Standardi za svojstva zgrada – Definiranje i proračun površina i prostora (ISO 9836:2011) Performance standards in building – Definition and calculation of area and space indicators (ISO 9836:2011)
- HRN ISO 11527:2011 en pr  
Gradnja zgrada – Brtvila – Metoda ispitivanja za određivanje ljepljivosti (ISO 11527:2010) Building construction – Sealants – Test method for the determination of stringiness (ISO 11527:2010)
- HRN ISO 13824:2011 en pr  
Osnove projektiranja konstrukcija – Opća načela ocjenjivanja rizika konstrukcija koje uključuju sustave (ISO 13824:2009) Bases for design of structures – General principles on risk assessment of systems involving structures (ISO 13824:2009)
- HRN ISO 15686-1:2011 en pr  
Zgrade i druge građevine – Planiranje vijeka uporabe – 1. dio: Opća načela i okvir (ISO 15686-1:2011) Buildings and constructed assets – Service life planning – Part 1: General principles and framework (ISO 15686-1:2011)
- HRN EN 15978:2011 en pr  
Održivost građevina – Ocjenjivanje svojstva zgrada s obzirom na okoliš – Proračunska metoda (EN 15978:2011) Sustainability of construction works – Assessment of environmental performance of buildings – Calculation method (EN 15978:2011)
- HRN ISO 21931-1:2011 en pr  
Održivost pri gradnji zgrada – Metodološki okvir za ocjenjivanje svojstva građevina s obzirom na okoliš – 1. dio: Zgrade (ISO 21931-1:2010) Sustainability in building construction – Framework for methods of assessment of the environmental performance of construction works – Part 1: Buildings (ISO 21931-1:2010)

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

- HRN EN 12808-4:2010/Ispr.1:2011 en pr  
Mase za sljubnice – 4. dio: Određivanje skupljanja (EN 12808-4:2009/AC:2011) Grouts for tiles – Part 4: Determination of shrinkage (EN 12808-4:2009/AC:2011)
- HRN EN 13224:2011 en pr  
Predgotovljeni betonski proizvodi – Rebrasti stropni elementi (EN 13224:2011) Precast concrete products – Ribbed floor elements (EN 13224:2011)



- HRN EN 14844:2011 en pr  
Predgotovljeni betonski proizvodi – Okvirni propusti (EN 14844:2006+A2:2011)  
Precast concrete products – Box culverts (EN 14844:2006+A2:2011)
- HRN EN 15037-2:2011 en pr  
Predgotovljeni betonski proizvodi – Stropni sustavi sastavljeni od nosača i blokova (ispune) – 2. dio: Betonski blokovi (EN 15037-2:2009+A1:2011)  
Precast concrete products – Beam-and-block floor systems – Part 2: Concrete blocks (EN 15037-2:2009+A1:2011)
- HRN EN 15037-3:2011 en pr  
Predgotovljeni betonski proizvodi – Stropni sustavi sastavljeni od nosača i blokova (ispune) – 3. dio: Glineni blokovi (EN 15037-3:2009+A1:2011)  
Precast concrete products – Beam-and-block floor systems – Part 3: Clay blocks (EN 15037-3:2009+A1:2011)

### **HZN/TO 556, Osobna zaštitna oprema**

- HRN 1131:2011 hr izv  
Osobna zaštitna oprema za zaštitu protiv pada s visine – Čelične penjalice za drvene stupove  
Personal protective equipment against falls from a height – Steel Climbing Devices for Wooden Posts

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

- HRN EN ISO 105-B10:2011 en pr  
Tekstil – Ispitivanje postojanosti obojenja – Dio B10: Umjetno starenje – Izlaganje filtriranim zračenju Xenonske lampe (ISO 105-B10:2011; EN ISO 105-B10:2011)  
Textiles – Tests for colour fastness – Part B10: Artificial weathering – Exposure to filtered xenon-arc radiation (ISO 105-B10:2011; EN ISO 105-B10:2011)
- HRN EN ISO 139:2008/A1:2011 en pr  
Tekstil – Standardna atmosfera za kondicioniranje i ispitivanje (ISO 139:2005/Amd 1:2011; EN ISO 139:2005/A1:2011)  
Textiles – Standard atmospheres for conditioning and testing (ISO 139:2005/Amd 1:2011; EN ISO 139:2005/A1:2011)
- HRN EN ISO 9092:2011 en pr  
Tekstil – Netkani tekstil – Definicija (ISO 9092:2011; EN ISO 9092:2011)  
Textiles – Nonwovens – Definition (ISO 9092:2011; EN ISO 9092:2011)
- HRN EN ISO 10821:2008/A1:2011 en pr  
Industrijski šivaći strojevi – Sigurnosni zahtjevi za šivaće strojeve, jedinice i sustave (ISO 10821:2005/Amd 1:2009, Ispravljena verzija 2009-08-01; EN ISO 10821:2005/A1:2009)  
Industrial sewing machines – Safety requirements for sewing machines, units and systems (ISO 10821:2005/Amd 1:2009, Corrected version 2009-08-01; EN ISO 10821:2005/A1:2009)
- HRN EN ISO 14184-1:2011 en pr  
Tekstil – Određivanje formaldehida – 1. dio: Slobodni i hidrolizirani formaldehid (metoda ekstrakcije vodom) (ISO 14184-1:2011; EN ISO 14184-1:2011)  
Textiles – Determination of formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1:2011; EN ISO 14184-1:2011)

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

- HRN EN 12463:2011 en pr  
Strojevi za preradu hrane – Strojevi za punjenje i pomoćni strojevi – Sigurnosni i higijenski zahtjevi (EN 12463:2004+A1:2011)  
Food processing machinery – Filling machines and auxiliary machines – Safety and hygiene requirements (EN 12463:2004+A1:2011)

- HRN EN 12853:2010/Ispr.1:2011 en pr  
Strojevi za preradu hrane – Ručne mješalice i pjenjače – Sigurnosni i higijenski zahtjevi (EN 12853:2001+A1:2010/AC:2010)  
Food processing machinery – Hand-held blenders and whisks – Safety and hygiene requirements (EN 12853:2001+A1:2010/AC:2010)
- HRN EN 15430-1:2011 en pr  
Winter and road service area maintenance equipments – Data acquisition and transmission – Part 1: In vehicle data acquisition (EN 15430-1:2007+A1:2011)
- HRN EN 15432-1:2011 en pr  
Winter and road service area maintenance equipments – Front-mounted equipments – Part 1: Fixed front mounting plates (EN 15432-1:2011)

### **HZN/TO 564, Uljarice, biljna i životinjska ulja i masti**

- HRN EN 14103:2011 en pr  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje estera i sadržaja metilnih estera linolenske kiseline (EN 14103:2011)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of ester and linolenic acid methyl ester contents (EN 14103:2011)
- HRN EN 14105:2011 en pr  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje sadržaja slobodnog i ukupnog glicerola sadržaja mono-, di- i triglicerida (EN 14105:2011)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of free and total glycerol and mono-, di-, triglyceride contents (EN 14105:2011)

### **HZN/TO 569, Hrana za životinje**

- HRN EN 16006:2011 en pr  
Hrana za životinje – Određivanje sume fumonizina B1 i B2 u smjesama za životinje pročišćavanjem imunoafinitetnim kolonama te RP-HPLC sa fluorescentnom detekcijom nakon pred ili poslijekolonske derivatizacije (EN 16006:2011)  
Animal feeding stuffs – Determination of the Sum of Fumonisin B1 & B2 in compound animal feed with immunoaffinity clean-up and RP-HPLC with fluorescence detection after pre- or post-column derivatisation (EN 16006:2011)
- HRN EN 16007:2011 en pr  
Hrana za životinje – Određivanje okratoksina A u hrani za životinje pročišćavanjem imunoafinitetnim kolonama i tekućinskom kromatografijom visokog učinka sa fluorescentnom detekcijom (EN 16007:2011)  
Animal feeding stuffs – Determination of Ochratoxin A in animal feed by immunoaffinity column clean-up and High Performance Liquid Chromatography with fluorescence detection (EN 16007:2011)

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

- HRN EN 60038:2011 en pr  
Normirani naponi prema CENELEC-u (IEC 60038:2009, MOD; EN 60038:2011)  
CENELEC standard voltages (IEC 60038:2009, MOD; EN 60038:2011)

### **HZN/TO E14, Energetski transformatori**

- HRN EN 50464-4:2008/A1:2011 en pr  
Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 4. dio: Zahtjevi i ispitivanje pod pritiskom kotlova iz valovitog lima (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 50464-4:2007/A1:2011)

HRN EN 60076-1:2011 en pr  
Energetski transformatori – 1. dio: Općenito  
(IEC 60076-1:2011; EN 60076-1:2011)  
Power transformers – Part 1: General  
(IEC 60076-1:2011; EN 60076-1:2011)

HRN EN 60076-16:2011 en pr  
Energetski transformatori – 16. dio: Transformatori  
za primjenu u vjetroagregatima (IEC 60076-16:2011;  
EN 60076-16:2011)  
Power transformers – Part 16: Transformers for wind  
turbines application (IEC 60076-16:2011;  
EN 60076-16:2011)

## HZN/TO E20, Električni kabeli

HRN EN 50363-0:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – 0. dio: Opći uvod  
(EN 50363-0:2011)  
Insulating, sheathing and covering materials for low-  
voltage energy cables – Part 0: General introduction  
(EN 50363-0:2011)

HRN EN 50363-2-1:2007/A1:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – Dio 2-1: Umrežene elastomerne  
smjese za plašteve (EN 50363-2-1:2005/A1:2011)  
Insulating, sheathing and covering materials for  
low voltage energy cables – Part 2-1: Cross-linked  
elastomeric sheathing compounds  
(EN 50363-2-1:2005/A1:2011)

HRN EN 50363-3:2007/A1:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – 3. dio: PVC izolacijske smjese  
(EN 50363-3:2005/A1:2011)  
Insulating, sheathing and covering materials for  
low voltage energy cables – Part 3: PVC insulating  
compounds (EN 50363-3:2005/A1:2011)

HRN EN 50363-5:2007/A1:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – 5. dio: Umrežene izolacijske  
smjese bez halogena (EN 50363-5:2005/A1:2011)  
Insulating, sheathing and covering materials for low  
voltage energy cables – Part 5: Halogen-free, cross-  
linked insulating compounds  
(EN 50363-5:2005/A1:2011)

HRN EN 50363-6:2007/A1:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – 6. dio: Umrežene plaštevske  
smjese bez halogena (EN 50363-6:2005/A1:2011)  
Insulating, sheathing and covering materials for low  
voltage energy cables – Part 6: Halogen-free, cross-  
linked sheathing compounds  
(EN 50363-6:2005/A1:2011)

HRN EN 50363-8:2007/A1:2011 en pr  
Materijali za izolacije, plašteve i ispune niskonaponskih  
energetskih kabela – 8. dio: Termoplastične plaštevske  
smjese bez halogena (EN 50363-8:2005/A1:2011)  
Insulating, sheathing and covering materials for  
low voltage energy cables – Part 8: Halogen-free,  
thermoplastic sheathing compounds  
(EN 50363-8:2005/A1:2011)

HRN EN 50395:2007/A1:2011 en pr  
Električne metode ispitivanja za niskonaponske  
energetske kabele (EN 50395:2005/A1:2011)  
Electrical test methods for low voltage energy cables  
(EN 50395:2005/A1:2011)

HRN EN 50396:2007/A1:2011 en pr  
Neelektrične metode ispitivanja za niskonaponske  
energetske kabele (EN 50396:2005/A1:2011)  
Non electrical test methods for low voltage energy  
cables (EN 50396:2005/A1:2011)

HRN IEC 60050-461:2011 hr pp  
Međunarodni elektrotehnički rječnik – 461. dio:  
Električni kabeli (IEC 60050-461:2008)  
International Electrotechnical Vocabulary – Part 461:  
Electric cables (IEC 60050-461:2008)

## HZN/TO E22, Energetska elektronika

HRN EN 61954:2011 en pr  
Statički kompenzatori jalove snage (SVC) – Ispitivanje  
tiristorskih ventila (IEC 61954:2011; EN 61954:2011)  
Static VAR compensators (SVC) – Testing of thyristor  
valves (IEC 61954:2011; EN 61954:2011)

HRN EN 62040-3:2011 en pr  
Energetski sustavi neprekidnog napajanja (UPS) –  
3. dio: Metoda specificiranja svojstava i ispitnih  
zahtjeva (IEC 62040-3:2011; EN 62040-3:2011)  
Uninterruptible power systems (UPS) – Part 3: Method  
of specifying the performance and test requirements  
(IEC 62040-3:2011; EN 62040-3:2011)

## HZN/TO E31, Eksplozivne atmosfere

HRN EN 14034-1:2011 en pr  
Određivanje eksplozivnih karakteristika za oblake  
prašina – 1. dio: Određivanje najvećeg tlaka eksplozije  
 $p_{max}$  oblaka prašine (EN 14034-1:2004+A1:2011)  
Determination of explosion characteristics of dust  
clouds – Part 1: Determination of the maximum  
explosion pressure  $p_{max}$  of dust clouds  
(EN 14034-1:2004+A1:2011)

HRN EN 14034-2:2011 en pr  
Određivanje eksplozivnih karakteristika za oblake  
prašina – 2. dio: Određivanje najvećeg nazivnog  
porasta tlaka eksplozije  $(dp/dt)_{max}$  oblaka prašine  
(EN 14034-2:2006+A1:2011)  
Determination of explosion characteristics of dust  
clouds – Part 2: Determination of the maximum rate  
of explosion pressure rise  $(dp/dt)_{max}$  of dust clouds  
(EN 14034-2:2006+A1:2011)

HRN EN 14034-3:2011 en pr  
Određivanje eksplozivnih karakteristika za oblake  
prašina – 3. dio: Određivanje donje granice  
eksplozivnosti DGE oblaka prašine  
(EN 14034-3:2006+A1:2011)  
Determination of explosion characteristics of dust  
clouds – Part 3: Determination of the lower explosion  
limit LEL of dust clouds (EN 14034-3:2006+A1:2011)

HRN EN 14034-4:2011 en pr  
Određivanje eksplozivnih karakteristika za oblake  
prašina – 4. dio: Određivanje graničnih koncentracija  
kisika u oblacima prašine (EN 14034-4:2004+A1:2011)  
Determination of explosion characteristics of dust  
clouds – Part 4: Determination of the limiting oxygen  
concentration LOC of dust clouds  
(EN 14034-4:2004+A1:2011)

## HZN/TO E44, Elektrotehnička sigurnost strojeva

HRN EN 60204-1:2008/Ispr.1:2011 en pr  
Sigurnost strojeva – Električna oprema strojeva –  
1. dio: Opći zahtjevi (EN 60204-1:2006/AC:2010)  
Safety of machinery – Electrical equipment of  
machines – Part 1: General requirements  
(EN 60204-1:2006/AC:2010)

HRN EN 60204-11:2002/Ispr.1:2011 en pr  
Sigurnost strojeva – Električna oprema strojeva –  
11. dio: Zahtjevi za visokonaponsku opremu za  
izmjenične napone iznad 1000 V ili istosmjernje napone  
iznad 1500 V koji ne prelaze 36 kV  
(EN 60204-11:2000/AC:2010)  
Safety of machinery – Electrical equipment of  
machines – Part 11: Requirements for HV equipment  
for voltages above 1000 V a.c. or 1500 V d.c. and not  
exceeding 36 kV (EN 60204-11:2000/AC:2010)

HRN EN 61496-1:2008/Ispr.1:2011 en pr  
Sigurnost strojeva – Elektroosjetilna zaštitna oprema – 1. dio: Opći zahtjevi i ispitivanja (EN 61496-1:2004/AC:2010)  
Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests (EN 61496-1:2004/AC:2010)

HRN EN 62061:2008/Ispr.1:2011 en pr  
Sigurnost strojeva – Funkcionalna sigurnost za električne, elektroničke i programibilne upravljačke sustave (EN 62061:2005/AC:2010)  
Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems (EN 62061:2005/AC:2010)

### **HZN/TO E79, Alarmni sustavi**

HRS CLC/TS 50131-7:2011 en pr  
Alarmni sustavi – Protuprovalni i protupreparni sustavi – 7. dio: Smjernice za primjenu (CLC/TS 50131-7:2010)  
Alarm systems – Intrusion and hold-up systems – Part 7: Application guidelines (CLC/TS 50131-7:2010)

HRN EN 50132-1:2011 en pr  
Alarmni sustavi – Sustavi nadzora pomoću TV zatvorenog kruga za uporabu u primjenama zaštite – 1. dio: Zahtjevi za sustave (EN 50132-1:2010)  
Alarm systems – CCTV surveillance systems for use in security applications – Part 1: System requirements (EN 50132-1:2010)

HRN EN 50518-1:2011 en pr  
Centar za nadzor i prijam alarma – 1. dio: Zahtjevi za smještaj i izgradnju (EN 50518-1:2010)  
Monitoring and alarm receiving centre – Part 1: Location and construction requirements (EN 50518-1:2010)

HRN EN 50518-2:2011 en pr  
Centar za nadzor i prijam alarma – 2. dio: Tehnički zahtjevi (EN 50518-2:2010+AC:2011)  
Monitoring and alarm receiving centre – Part 2: Technical requirements (EN 50518-2:2010+AC:2011)

HRN EN 50518-3:2011 en pr  
Centar za nadzor i prijam alarma – 3. dio: Postupci i zahtjevi za rad (EN 50518-3:2011)  
Monitoring and alarm receiving centre – Part 3: Procedures and requirements for operation (EN 50518-3:2011)

### **HZN/TO E80, Pomorska navigacijska i radiokomunikacijska oprema i sustavi**

HRN EN 61162-1:2011 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Digitalna sučelja – 1. dio: Jedan govornik i više slušatelja (IEC 61162-1:2010; EN 61162-1:2011)  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1: Single talker and multiple listeners (IEC 61162-1:2010; EN 61162-1:2011)

HRN EN 61162-450:2011 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Digitalna sučelja – 450. dio: Više govornika i više slušatelja – Ethernet interkonekcija (IEC 61162-450:2011; EN 61162-450:2011)  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection (IEC 61162-450:2011; EN 61162-450:2011)

HRN EN 62287-1:2011 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodska oprema razreda B sustava automatske identifikacije (AIS) – 1. dio: Tehnike višestrukog pristupa s vremenskom podjelom detekcije nosioca (CSTDMA) (IEC 62287-1:2010; EN 62287-1:2011)

Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 1: Carrier-sense time division multiple access (CSTDMA) techniques (IEC 62287-1:2010; EN 62287-1:2011)

HRN EN 62376:2011 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav za elektroničke karte (ECS) – Radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62376:2010; EN 62376:2011)  
Maritime navigation and radiocommunication equipment and systems – Electronic chart system (ECS) – Operational and performance requirements, methods of testing and required test results (IEC 62376:2010; EN 62376:2011)

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

HRN EN 50400:2007/Ispr.1:2011 en pr  
Osnovna norma 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 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 50400:2006/AC:2011)

HRN EN 50527-2-1:2011 en pr  
Postupak za procjenu izloženosti elektromagnetskim poljima radnika koji nose aktivne medicinske implantate – Dio 2-1: Specifična procjena za radnike s elektrostimulatorima srca (EN 50527-2-1:2011)  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-1: Specific assessment for workers with cardiac pacemakers (EN 50527-2-1:2011)

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

HRN EN 131-1:2011 hr pp  
Ljestve – 1. dio: Nazivi, tipovi, funkcionalne veličine (EN 131-1:2007+A1:2011)  
Ladders – Part 1: Terms, types, functional sizes (EN 131-1:2007+A1:2011)

HRN EN 131-2:2011 hr pp  
Ljestve – 2. dio: Zahtjevi, ispitivanje, označivanje (EN 131-2:2010)  
Ladders – Part 2: Requirements, testing, marking (EN 131-2:2010)

HRN EN 131-3:2011 hr pp  
Ljestve – 3. dio: Upute za korisnike (EN 131-3:2007)  
Ladders – Part 3: User Instructions (EN 131-3:2007)

HRN EN 131-4:2011 hr pp  
Ljestve – 4. dio: Zglobne ljestve s jednim ili više zglobova (EN 131-4:2007)  
Ladders – Part 4: Single or multiple hinge-joint ladders (EN 131-4:2007)

HRN EN 893:2011 en pr  
Planinarska oprema – Dereze – Sigurnosni zahtjevi i metode ispitivanja (EN 893:2010)  
Mountaineering equipment – Crampons – Safety requirements and test methods (EN 893:2010)

HRN EN ISO 5912:2011 en pr  
Camping tents (ISO 5912:2011; EN ISO 5912:2011)

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

HRN EN 488:2011 en pr  
District heating pipes – Preinsulated bonded pipe systems for directly buried hot water networks – Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene (EN 488:2011)

HRN EN 500-4:2011 en pr  
Mobile road construction machinery – Safety – Part 4: Specific requirements for compaction machines (EN 500-4:2011)

HRN EN 1829-2:2008/Ispr.1:2011 en pr  
High-pressure water jet machines – Safety requirements – Part 2: Hoses, hose lines and connectors (EN 1829-2:2008/AC:2011)

HRN EN ISO 2867:2011 en pr  
Earth-moving machinery – Access systems (ISO 2867:2011; EN ISO 2867:2011)

HRN EN ISO 3450:2011 en pr  
Earth-moving machinery – Wheeled or high-speed rubber-tracked machines – Performance requirements and test procedures for brake systems (ISO 3450:2011; EN ISO 3450:2011)

HRN EN 12629-1:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 1: Common requirements (EN 12629-1:2000+A1:2010)

HRN EN 12629-2:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 2: Block making machines (EN 12629-2:2002+A1:2010)

HRN EN 12629-3:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 3: Slide and turntable machines (EN 12629-3:2002+A1:2010)

HRN EN 12629-4:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 4: Concrete roof tile making machines (EN 12629-4:2001+A1:2010)

HRN EN 12629-5-1:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 5-1: Pipe making machines manufacturing in the vertical axis (EN 12629-5-1:2003+A1:2010)

HRN EN 12629-5-2:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 5-2: Pipe making machines manufacturing in the horizontal axis (EN 12629-5-2:2003+A1:2010)

HRN EN 12629-5-3:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 5-3: Pipe prestressing machines (EN 12629-5-3:2003+A1:2010)

HRN EN 12629-5-4:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 5-4: Concrete pipe coating machines (EN 12629-5-4:2003+A1:2010)

HRN EN 12629-6:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 6: Stationary and mobile equipment for the manufacture of precast reinforced products (EN 12629-6:2004+A1:2010)

HRN EN 12629-7:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 7: Stationary and mobile equipment for long line manufacture of prestressed products (EN 12629-7:2004+A1:2010)

HRN EN 12629-8:2011 en pr  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 8: Machines and equipment for the manufacture of constructional products from calcium-silicate (and concrete) (EN 12629-8:2002+A1:2010)

HRN EN 12649:2011 en pr  
Concrete compactors and smoothing machines – Safety (EN 12649:2008+A1:2011)

HRN EN ISO 20361:2009/Ispr.1:2011 en pr  
Liquid pumps and pump units – Noise test code – Grades 2 and 3 of accuracy (EN ISO 20361:2009/AC:2010)

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

HRN EN 15410:2011 en pr  
Solid recovered fuels – Methods for the determination of the content of major elements (Al, Ca, Fe, K, Mg, Na, P, Si, Ti) (EN 15410:2011)

HRN EN 15411:2011 en pr  
Solid recovered fuels – Methods for the determination of the content of trace elements (As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mo, Mn, Ni, Pb, Sb, Se, Ti, V and Zn) (EN 15411:2011)

HRN EN 15413:2011 en pr  
Solid recovered fuels – Methods for the preparation of the test sample from the laboratory sample (EN 15413:2011)

HRN EN 15415-1:2011 en pr  
Solid recovered fuels – Determination of particle size distribution – Part 1: Screen method for small dimension particles (EN 15415-1:2011)

HRN EN 15440:2011/Ispr.1:2011 en pr  
Solid recovered fuels – Methods for the determination of biomass content (EN 15440:2011/AC:2011)

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

HRN EN ISO 8362-4:2011 en pr  
Injection containers and accessories – Part 4: Injection vials made of moulded glass (ISO 8362-4:2011; EN ISO 8362-4:2011)

HRN EN ISO 8536-1:2011 en pr  
Infusion equipment for medical use – Part 1: Infusion glass bottles (ISO 8536-1:2011; EN ISO 8536-1:2011)

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

HRN EN 2240-061:2011 en pr  
Aerospace series – Lamps, incandescent – Part 061: Lamp, code 1683 – Product standard (EN 2240-061:2011)

HRN EN 2240-062:2011 en pr  
Aerospace series – Lamps, incandescent – Part 062: Lamp, code 1810 – Product standard (EN 2240-062:2011)

HRN EN 2240-063:2011 en pr  
Aerospace series – Lamps, incandescent – Part 063: Lamp, code 1815 – Product standard (EN 2240-063:2011)

HRN EN 2240-064:2011 en pr  
Aerospace series – Lamps, incandescent – Part 064: Lamp, code 1819 – Product standard (EN 2240-064:2011)

- HRN EN 2240-065:2011 en pr  
Aerospace series – Lamps, incandescent – Part 065:  
Lamp, code 1820 – Product standard  
(EN 2240-065:2011)
- HRN EN 2240-066:2011 en pr  
Aerospace series – Lamps, incandescent – Part 066:  
Lamp, code 1829 – Product standard  
(EN 2240-066:2011)
- HRN EN 2240-067:2011 en pr  
Aerospace series – Lamps, incandescent – Part 067:  
Lamp, code 1843 – Product standard  
(EN 2240-067:2011)
- HRN EN 2240-068:2011 en pr  
Aerospace series – Lamps, incandescent – Part 068:  
Lamp, code 1864 – Product standard  
(EN 2240-068:2011)
- HRN EN 2240-069:2011 en pr  
Aerospace series – Lamps, incandescent – Part 069:  
Lamp, code 1978 – Product standard  
(EN 2240-069:2011)
- HRN EN 2240-070:2011 en pr  
Aerospace series – Lamps, incandescent – Part 070:  
Lamp, code 2232 – Product standard  
(EN 2240-070:2011)
- HRN EN 2491:2011 en pr  
Aerospace series – Molybdenum disulphide dry  
lubricants – Coating methods (EN 2491:2011)
- HRN EN 2535:2011 en pr  
Aerospace series – Vacuum deposition of cadmium  
(EN 2535:2011)
- HRN EN 2757:2011 en pr  
Aerospace series – Structural adhesives system –  
Test method – Determination of the drying and ignition  
residues of primers (EN 2757:2011)
- HRN EN 2825:2011 en pr  
Aerospace series – Burning behaviour of non  
metallic materials under the influence of radiating  
heat and flames – Determination of smoke density  
(EN 2825:2011)
- HRN EN 2997-001:2011 en pr  
Aerospace series – Connectors, electrical, circular,  
coupled by threaded ring, fire-resistant or non fire-  
resistant, operating temperatures – 65 °C to 175 °C  
continuous, 200 °C continuous, 260 °C peak –  
Part 001: Technical specification (EN 2997-001:2011)
- HRN EN 2997-014:2011 en pr  
Aerospace series – Connectors, electrical, circular,  
coupled by threaded ring, fire-resistant or non fire-  
resistant, operating temperatures – 65 °C to 175 °C  
continuous, 200 °C continuous, 260 °C peak –  
Part 014: Square flange receptacle with integrated  
accessory – Product standard (EN 2997-014:2011)
- HRN EN 2997-015:2011 en pr  
Aerospace series – Connectors, electrical, circular,  
coupled by threaded ring, fire-resistant or non fire-  
resistant, operating temperatures – 65 °C to 175 °C  
continuous, 200 °C continuous, 260 °C peak –  
Part 015: Jam-nut mounted receptacle with integrated  
accessory – Product standard (EN 2997-015:2011)
- HRN EN 3155-002:2011 en pr  
Aerospace series – Electrical contacts used in  
elements of connection – Part 002: List and utilization  
of contacts (EN 3155-002:2011)
- HRN EN 3280:2011 en pr  
Aerospace series – Bearings, airframe rolling, rigid or  
self-aligning – Technical specification (EN 3280:2011)
- HRN EN 3475-603:2011 en pr  
Aerospace series – Cables, electrical, aircraft use  
– Test methods – Part 603: Resistance to wet arc  
tracking (EN 3475-603:2011)
- HRN EN 4008-007:2011 en pr  
Aerospace series – Elements of electrical and  
optical connection – Crimping tools and associated  
accessories – Part 007: Positioner for crimping tool  
M22520/2-01 – Product standard (EN 4008-007:2011)
- HRN EN 4008-008:2011 en pr  
Aerospace series – Elements of electrical and  
optical connection – Crimping tools and associated  
accessories – Part 008: Positioner for crimping tool  
M22520/7-01 – Product standard (EN 4008-008:2011)
- HRN EN 4160:2011 en pr  
Aerospace series – Paints and varnishes –  
Determination of the effect of thermal exposure  
(EN 4160:2011)
- HRN EN 4165-024:2011 en pr  
Aerospace series – Connectors, electrical, rectangular,  
modular – Operating temperature 175 °C continuous  
– Part 024: Single module plug – Product standard  
(EN 4165-024:2011)
- HRN EN 4165-026:2011 en pr  
Aerospace series – Connectors, electrical, rectangular,  
modular – Operating temperature 175 °C continuous  
– Part 026: Accessories for single modules – Product  
standard (EN 4165-026:2011)
- HRN EN 4476:2011 en pr  
Aerospace series – Paints and varnishes – Cold curing  
intermediate coat (EN 4476:2011)
- HRN EN 4593:2011 en pr  
Aerospace series – Paints and varnishes –  
Determination of solar absorptance (EN 4593:2011)
- HRN EN 4604-009:2011 en pr  
Aerospace series – Cable, electrical, for signal  
transmission – Part 009: Cable, coaxial, light weight,  
50 ohms, 180 °C, type KW (light WN) – Product  
standard (EN 4604-009:2011)
- HRN EN 4604-010:2011 en pr  
Aerospace series – Cable, electrical, for signal  
transmission – Part 010: Cable, coaxial, light weight,  
50 Ohms, 200 °C, type KX (light WD) – Product  
standard (EN 4604-010:2011)
- HRN EN 4641-301:2011 en pr  
Aerospace series – Cables, optical 125 µm diameter  
cladding – Part 301: Tight structure 50/125 µm GI fibre  
nominal 1,8 mm outside diameter – Product standard  
(EN 4641-301:2011)
- HRN EN 4660-005:2011 en pr  
Aerospace series – Modular and Open Avionics  
Architectures – Part 005: Software  
(EN 4660-005:2011)
- HRN EN 4672:2011 en pr  
Aerospace series – Steel FE-PM1504  
(X1CrNiMoAlTi12-10-2) – Vacuum induction melted  
and consumable electrode remelted – Softened –  
Forging stock – a or D = 300 mm (EN 4672:2011)
- HRN EN 4675:2011 en pr  
Aerospace series – Titanium Ti-P63002  
(Ti5Al5Mo5V3Cr0.4Fe) –  $R_m = 1300$  MPa – Bars –  
 $D_e < 110$  mm (EN 4675:2011)
- HRN EN 4678:2011 en pr  
Aerospace series – Weldments and brazements for  
aerospace structures – Joints of metallic materials by  
laser beam welding – Quality of weldments  
(EN 4678:2011)
- HRN EN 4683:2011 en pr  
Aerospace series – Steel FE-WM 3504  
(X4CrNiMo16-5-1) – Air melted – Filler metal for  
welding – Wire and rod (EN 4683:2011)
- HRN EN 4685:2011 en pr  
Aerospace series – Titanium Ti10V2Fe3Al – Bars –  
 $D < 110$  mm –  $R_m = 1240$  MPa (EN 4685:2011)

HRN EN 9101:2011 en pr  
Quality Management Systems – Audit Requirements  
for Aviation, Space, and Defence Organizations  
(EN 9101:2011)

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

HRN EN 60745-2-4:2011 en pr  
Ručni elektromotorni alati – Sigurnost – Dio 2-4:  
Posebni zahtjevi za pjeskarilice i laštilice  
(IEC 60745-2-4:2002, MOD+am1:2008, MOD;  
EN 60745-2-4:2009)  
Hand-held motor-operated electric tools – Safety  
– Part 2-4: Particular requirements for sanders and  
polishers other than disk type (IEC 60745-2-4:2002,  
MOD+am1:2008, MOD; EN 60745-2-4:2009)

## **1.2 Nacrti 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 nacrt 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 34/PO 17, Poljoprivredni i prehrambeni proizvodi; Sustavi upravljanja za sigurnost hrane**

nHRN ISO 22006 hr pp  
Sustavi upravljanja kvalitetom – Smjernice za primjenu  
norme ISO 9001:2008 u proizvodnji usjeva  
(ISO 22006:2009)  
Quality management systems – Guidelines for the  
application of ISO 9001:2008 to crop production  
(ISO 22006:2009)

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

nHRN EN 13965-2 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)

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

nHRN EN 1996-1-1 hr pp  
Eurokod 6: Projektiranje zidanih konstrukcija –  
Dio 1-1: Opća pravila za armirane i nearmirane zidane  
konstrukcije (EN 1996-1-1:2005+AC:2009)  
Eurocode 6: Design of masonry structures – Part 1-1:  
General rules for reinforced and unreinforced masonry  
structures (EN 1996-1-1:2005+AC:2009)

nHRN EN 1996-1-1/NA hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija –  
Dio 1-1: Opća pravila za armirane i nearmirane zidane  
konstrukcije – Nacionalni dodatak  
Eurocode 6: Design of masonry structures – Part 1-1:  
General rules for reinforced and unreinforced masonry  
structures – National annex

nHRN EN 1996-1-2 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)

nHRN EN 1996-1-2/NA hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija –  
Dio 1-2: Opća pravila – Projektiranje konstrukcija na  
djelovanje požara – Nacionalni dodatak

Eurocode 6: Design of masonry structures – Part 1-2:  
General rules – Structural fire design – National annex

nHRN EN 1996-2 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)

nHRN EN 1996-2/NA 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

nHRN EN 1996-3 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)

nHRN EN 1996-3/NA 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 560, Tekstilni proizvodi**

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

## **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**

EN 14917:2009/FprA1 en  
Metal bellows expansion joints for pressure  
applications

EN 15266:2007/FprA1 en  
Stainless steel pliable corrugated tubing kits in  
buildings for gas with an operating pressure up to  
0,5 bar

## **HZN/TO 8, Brodogradnja**

prEN 1808 rev en  
Suspended access equipment – Design calculations,  
stability criteria and construction – Examinations  
and tests

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

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

- ISO/PAS 3930:2009 en  
Instruments for measuring vehicle exhaust emissions – Metrological and technical requirements; Metrological control and performance tests  
Uređaji za mjerenje emisija ispuha vozila – Mjeriteljski i tehnički zahtjevi; mjeriteljsko provjeravanje i ispitivanje značajki
- ISO 4000-1:2010 en  
Passenger car tyres and rims – Part 1: Tyres (metric series)  
Gume i naplatci za osobne automobile – 1. dio: Gume (milimetarski nizovi)
- ISO 4000-2:2007 en  
Passenger car tyres and rims – Part 2: Rims  
Gume i naplatci za osobne automobile – 2. dio: Naplatci
- ISO 4040:2009 en  
Road vehicles – Location of hand controls, indicators and tell-tales in motor vehicles  
Cestovna vozila – Položaj ručnih upravljačkih naprava, indikatora i pokaznih svjetiljka u motornim vozilima
- ISO 4141-4:2009 en  
Road vehicles – Multi-core connecting cables – Part 4: Test methods and requirements for coiled cable assemblies  
Cestovna vozila – Višežilni spojni kabele – 4. dio: Metode ispitivanja i zahtjevi za kabele u obliku zavojnice
- ISO 4251-4:2010 en  
Tyres (ply rating marked series) and rims for agricultural tractors and machines – Part 4: Tyre classification and nomenclature  
Gume (nizovi s oznakom PR (“ply rating”)) i naplatci za poljoprivredne traktore i strojeve – 4. dio: Razredba i nomenklatura guma
- ISO 4925:2005 en  
Road vehicles – Specification of non-petroleum-base brake fluids for hydraulic systems  
Cestovna vozila – Specifikacija tekućina za kočenje na nemineralnoj osnovi za hidraulične sustave
- ISO 4926:2006 en  
Road vehicles – Hydraulic braking systems – Non-petroleum-base reference fluids  
Cestovna vozila – Hidraulični sustavi kočenja – Referencijske tekućine na nemineralnoj osnovi
- ISO 4927:2005 en  
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.)  
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 4928:2006 en  
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.)  
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 4930:2006 en  
Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 150 °C max.)  
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 6118:2006 en  
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.)  
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 6119:2006 en  
Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (Service temperature 120 °C max.)  
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 6310:2009 en  
Road vehicles – Brake linings – Compressive strain test methods  
Cestovna vozila – Kočničke tarne obloge – Metode ispitivanja tlačnim opterećenjem
- ISO 6460-1:2007 en  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 1. dio: Opći ispitni zahtjevi
- ISO 6460-2:2007 en  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 2: Test cycles and specific test conditions  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 2. dio: Ciklusi ispitivanja i posebni uvjeti ispitivanja
- ISO 6460-3:2007 en  
Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 3: Fuel consumption measurement at a constant speed  
Motocikli – Metoda mjerenja emisija ispušnih plinova i potrošnje goriva – 3. dio: Mjerenje potrošnje goriva pri konstantnoj brzini
- ISO 6469-1:2009 en  
Electrically propelled road vehicles – Safety specifications – Part 1: On-board rechargeable energy storage system (RESS)  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 1. dio: Sustav ponovljivog pohranjivanja energije u vozilu (RESS)
- ISO 6469-2:2009 en  
Electrically propelled road vehicles – Safety specifications – Part 2: Vehicle operational safety means and protection against failures  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 2. dio: Sredstva za sigurnost rada vozila i zaštita od kvarova
- ISO 6519:2004 en  
Diesel engines – Fuel injection pumps – Tapers for shaft ends and hubs  
Dizelski motori – Pumpe za ubrizgavanje goriva – Stošci za završetke vratila i glavine
- ISO 6546:2006 en  
Road vehicles – Collection of accident data for evaluation of occupant restraint performance  
Cestovna vozila – Prikupljanje podataka o nezgodi za vrednovanje značajki držanja osoba u vozilu
- ISO 6550-3:2009 en  
Road vehicles – Sheath-type glow-plugs with conical seating and their cylinder head housing – Part 3: M10 glow-plugs

Cestovna vozila – Obloženi tip žarnica sa stožastim sjedištem i njihovo kućište u glavi cilindra – 3. dio: M10 žarnica

ISO 6621-1:2007 en

Internal combustion engines – Piston rings – Part 1: Vocabulary

Motori s unutarnjim izgaranjem – Klipni prstenovi – 1. dio: Terminološki rječnik

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

EN 836:1997+A4:2011 en

Garden equipment – Powered lawnmowers – Safety

prEN ISO 4254-1 en

Agricultural machinery – Safety – Part 1: General requirements (ISO/DIS 4254-1:2011)

EN ISO 4254-11:2010 en

Agricultural machinery – Safety – Part 11: Pick-up balers (ISO 4254-11:2010)

prEN ISO 4254-12 en

Agricultural machinery – Safety – Part 12: Rotary mowers and flail-mowers (ISO/DIS 4254-12:2007)

EN 13739-1:2011 en

Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 1: Requirements

EN 13739-2:2011 en

Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 2: Test methods

prEN ISO 16231-1 en

Self-propelled agricultural machinery – Assessment of stability – Part 1: Principles (ISO/DIS 16231-1:2011)

EN ISO 22868:2011 en

Forestry and gardening machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy) (ISO 22868:2011)

Šumarska mehanizacija – Kod za ispitivanje buke ručnih strojeva s motorima s unutrašnjim izgaranjem – Inženjerska metoda (2. stupanj preciznosti) (ISO 22868:2011)

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

EN 10213:2007/prA1 en

Steel castings for pressure purposes  
Čelični odljevci za tlačne namjene

FprEN 13835 en

Founding – Austenitic cast irons  
Ljevarstvo – Austenitni željezni lijevovi

### **HZN/TO 35, Boje i lakovi**

prEN 927-1 en

Paints and varnishes – Coating materials and coating systems for exterior wood – Part 1: Classification and selection

prEN ISO 1524 en

Paints, varnishes and printing inks – Determination of fineness of grind (ISO/DIS 1524:2011)

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

EN ISO 10140-1:2010/FprA1 en

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/FDAM 1:2011)

Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 1. dio: Pravila primjene za određene proizvode – Amadman 1: Smjernice za određivanje indeksa zvučne izolacije spojeva s ispunama i/ili brtvama (ISO 10140-1:2010/FDAM 1:2011)

prEN ISO 12999-1 en

Determination and application of measurement uncertainties in building acoustics – Part 1: Sound insulation  
Određivanje i primjena mjerne nesigurnosti u akustici u zgradarstvu – 1. dio: Zvučna izolacija

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

FprEN ISO 3581 en

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)  
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 5173:2010/A1:2011 en

Destructive tests on welds in metallic materials – Bend tests (ISO 5173:2009/Amd 1:2011)  
Ispitivanja razaranjem zavara na metalnim materijalima – Ispitivanja savijanjem (ISO 5173:2009/Amd 1:2011)

EN ISO 10882-1:2011 en

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)  
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 15011-5:2011 en

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)  
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)

### **HZN/TO 47, Kemija**

prEN ISO 6556 en

Laboratory glassware – Filter flasks (ISO/DIS 6556:2011)

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

EN 197-1:2011 en

Cement – Part 1: Composition, specifications and conformity criteria for common cements  
Cement – 1. dio: Sastav, specifikacije i kriteriji sukladnosti cementa opće namjene

EN 459-3:2011 en

Building lime – Part 3: Conformity evaluation  
Građevno vapno – 3. dio: Vrednovanje sukladnosti

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

prEN 13136 rev en

Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation



Rashladni sustavi i dizalice topline – Tlačni prosturjni uređaji i pripadajući cjevovodi – Metode proračuna

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

EN 12829:2011 en

Surface active agents – Preparation of water with known calcium and magnesium hardness  
Površinski aktivne tvari – Priprema vode poznate kalcijeve i magnezijeve tvrdoće

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

prEN 16313 en

Connections for heating and cooling appliances – Detachable connection with outside threaded pipe G ¾ A and inside cone

### **HZN/TO 120, Koža i obuća**

EN ISO 3376:2011 en

Leather – Physical and mechanical tests – Determination of tensile strength and percentage extension (ISO 3376:2011)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje prekidne čvrstoće i postotka istezanja (ISO 3376:2011)

EN ISO 5402-1:2011 en

Leather – Determination of flex resistance – Part 1: Flexometer method (ISO 5402-1:2011)  
Koža – Određivanje otpornosti na svijanje – 1. dio: Metoda fleksometrom (ISO 5402-1:2011)

EN ISO 14087:2011 en

Leather – Physical and mechanical tests – Determination of bending force (ISO 14087:2011)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje sile savijanja (ISO 14087:2011)

EN ISO 17186:2011 en

Leather – Physical and mechanical tests – Determination of surface coating thickness (ISO 17186:2011)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje debljine površine nasloja / površinskih prevlaka (ISO 17186:2011)

EN ISO 17235:2011 en

Leather – Physical and mechanical tests – Determination of softness (ISO 17235:2011)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje mekoće (ISO 17235:2011)

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

EN ISO 5359:2008/A1:2011 en

Low-pressure hose assemblies for use with medical gases – Amendment 1 (ISO 5359:2008/Amd 1:2011)  
Niskotlačni cjevovodni sklop za primjenu s medicinskim plinovima – Amandman 1 (ISO 5359:2008/Amd 1:2011)

FprEN ISO 5360 en

Anaesthetic vaporizers – Agent-specific filling systems (ISO/FDIS 5360:2011)  
Anestetički isparivači – Sustavi punjenja specifični za plin (ISO/FDIS 5360:2011)

### **HZN/TO 136, Namještaj**

FprEN 1729-2 en

Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods  
Namještaj – Stolice i stolovi za obrazovne ustanove – 2. dio: Sigurnosni zahtjevi i metode ispitivanja

prEN 16337 en

Hardware for Furniture – Strength and loading capacity of shelf supports

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

FprEN 14758-1 en

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifiers (PP-MD) – Part 1: Specifications for pipes, fittings and the system

### **HZN/TO 147, Kvaliteta vode**

FprEN ISO 10523 en

Water quality – Determination of pH (ISO 10523:2008)  
Kvaliteta vode – Određivanje pH vrijednosti (ISO 10523:2008)

FprEN ISO 16265 en

Water quality – Determination of the methylene blue active substances (MBAS) index – Method using continuous flow analysis (CFA) (ISO 16265:2009)

### **HZN/TO 163/PO 2, Toplinska izolacija; Toplinski proračun**

EN ISO 15927-5:2004/A1:2011 en

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)

### **HZN/TO 165, Drvene konstrukcije**

prEN 15497 en

Structural finger jointed solid timber – Performance requirements and minimum production requirements

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

prEN ISO 10685-2 en

Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information (ISO/DIS 10685-2:2011)

prEN ISO 10685-3 en

Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 3: Technical information (ISO/DIS 10685-3:2011)

prEN ISO 11979-1 en

Ophthalmic implants – Intraocular lenses – Part 1: Vocabulary (ISO/DIS 11979-1:2011)

prEN ISO 11979-3 en

Ophthalmic implants – Intraocular lenses – Part 3: Mechanical properties and test methods (ISO/DIS 11979-3:2011)

EN ISO 11979-4:2008/prA1 en

Ophthalmic implants – Intraocular lenses – Part 4: Labelling and information – Amendment 1 (ISO 11979-4:2008/DAM 1:2011)

### **HZN/TO 181, Sigurnost igračkaka i proizvodi za djecu**

prEN 1400 rev en

Child use and care articles – Soothers for babies and young children – Safety requirements and test methods  
Proizvodi za dojenčad i malu djecu – Duge varalice za dojenčad i malu djecu – Sigurnosni zahtjevi i metode ispitivanja

### **HZN/TO 182/PO 2, Geotehničke konstrukcije; Ispitivanje**

EN ISO 22476-2:2005/A1:2011 en

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 en  
Geotechnical investigation and testing – Field testing  
– Part 3: Standard penetration test – Amendment 1  
(ISO 22476-3:2005/Amd 1:2011)

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

prEN 15286 en  
Agglomerated stone – Slabs and tiles for wall finishes  
(internal and external)

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

FprEN ISO 14064-1 en  
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)  
Staklenički plinovi – 1. dio: Specifikacija sa  
smjernicama na razini organizacije za kvantificiranje  
i izvješćivanje o emisijama i uklanjanju stakleničkih  
plinova (ISO 14064-1:2006)

FprEN ISO 14064-2 en  
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)  
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)

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

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

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

prEN ISO 19157 en  
Geographic information – Data quality  
(ISO/DIS 19157:2011)

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

prEN 335 rev en  
Durability of wood and wood- based products – Use  
classes: definitions, application to solid wood and  
wood based panels

prEN 14342 rev en  
Wood flooring – Characteristics, evaluation of  
conformity and marking

### **HZN/TO 219, *Podne obloge***

prEN 660 en  
Resilient floor coverings – Determination of wear  
resistance

prEN 14215 rev en  
Textile floor coverings – Classification of machine-  
made pile rugs and runners

EN 15114:2006+A1:2008/prA2 en  
Classification of flat, woven, knitted or needled textile  
floor coverings without pile

FprEN 15772 en  
Textile floor coverings – Minimum requirements for  
needled floor coverings for single usage in events of  
limited duration

FprCEN/TS 16354 en  
Laminate floor coverings – Underlays – Specification,  
requirements and test methods

prEN ISO 21868 en  
Textile floor coverings – Guidance on maintenance  
and cleaning (ISO/DIS 21868:2009)

### **HZN/TO 502, *Plinski uređaji***

FprEN 30-1-2 en  
Domestic cooking appliances burning gas – Safety –  
Part 1-2: Appliances having forced-convection ovens

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

FprEN 10264-1 en  
Steel wire and wire products – Steel wire for ropes –  
Part 1: General requirements  
Čelična žica i žičani proizvodi – Čelična žica za užad  
– 1. dio: Opći zahtjevi

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

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

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

FprEN 10294-2 en  
Hollow bars for machining – Technical delivery  
conditions – Part 2: Stainless steels with specified  
machinability properties  
Cijev za daljnju obradbu – Tehnički uvjeti isporuke –  
2. dio: Nehrđajući čelici sa specificiranim svojstvima  
obrade

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

FprEN ISO 9223 en  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Classification, determination and  
estimation (ISO/FDIS 9223:2011)  
Korozija metala i legura – Korozivnost atmosfera –  
Razredba, određivanje i procjena  
(ISO/FDIS 9223:2011)

FprEN ISO 9224 en  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Guiding values for the corrosivity  
categories (ISO/FDIS 9224:2011)  
Korozija metala i legura – Korozivnost atmosfera –  
Referentne vrijednosti za kategorije korozivnosti  
(ISO/FDIS 9224:2011)

FprEN ISO 9225 en  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Measurement of environmental  
parameters affecting corrosivity of atmospheres  
(ISO/FDIS 9225:2011)  
Korozija metala i legura – Korozivnost atmosfera –  
Mjerenje parametara okoliša koji utječu na korozivnost  
atmosfera (ISO/FDIS 9225:2011)

FprEN ISO 9226 en  
Corrosion of metals and alloys – Corrosivity of  
atmospheres – Determination of corrosion rate of  
standard specimens for the evaluation of corrosivity  
(ISO/FDIS 9226:2011)

Korozija metala i legura – Korozivnost atmosfera –  
Određivanje brzine korozije standardnih uzoraka za  
vrednovanje korozivnosti (ISO/FDIS 9226:2011)

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

prEN 12732 en  
Gas infrastructure – Welding steel pipework –  
Functional requirements  
Plinska infrastruktura – Zavarivanje čeličnih cijevi –  
Funkcionalni zahtjevi

FprCEN/TR 13737-1 en  
Implementation Guide for functional standards  
prepared by CEN/TC 234 Gas infrastructure –  
Part 1: General

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

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

prEN ISO 14998 en  
Petroleum and natural gas industries – Downhole  
equipment – Completion accessories  
(ISO/DIS 14998:2011)

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

prEN 16314 en  
Gas meters – Additional functionalities

### **HZN/TO 519, Adhezivi**

FprEN 12703 en  
Adhesives for paper and board, packaging and  
disposable sanitary products – Determination of low  
temperature flexibility or cold crack temperature

FprEN 12704 en  
Adhesives for paper and board, packaging and  
disposable sanitary products – Determination of foam  
formation for aqueous adhesives

### **HZN/TO 524, Cestovni prijevoz i prometna telematika**

prEN ISO 14819-1 rev en  
Intelligent transport systems – Traffic and travel  
information messages via traffic message coding  
– Part 1: Coding protocol for Radio Data System –  
Traffic Message Channel (RDS-TMC) using ALERT-C  
(ISO/DIS 14819-1:2011)

prEN ISO 14819-2 rev en  
Intelligent transport systems – Traffic and travel  
information messages via traffic message coding –  
Part 2: Event and information codes for Radio Data  
System – Traffic Message Channel (RDS-TMC) using  
ALERT-C (ISO/DIS 14819-2:2011)

prEN ISO 14819-3 rev en  
Intelligent transport systems – Traffic and travel  
information messages via traffic message coding –  
Part 3: Location referencing for Radio Data System –  
Traffic message Channel (RDS-TMC) using ALERT-C

prEN 16312 en  
Intelligent transport systems – Automatic Vehicle  
and Equipment Registration (AVI/AEI) – Interoperable  
application profile for AVI/AEI and Electronic  
Register Identification using dedicated short range  
communication

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

FprEN 1024 en  
Clay roofing tiles for discontinuous laying –  
Determination of geometric characteristics

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

prEN 14067-4 en  
Railway applications – Aerodynamics – Part 4:  
Requirements and test procedures for aerodynamics  
on open track

prEN 14752 en  
Railway applications – Bodyside Entrance Systems  
for rolling stock

EN 15085-1:2007/prA1 en  
Railway applications – Welding of railway vehicles  
and components – Part 1: General

prEN 16286-2 en  
Railway applications – Gangway systems between  
vehicles – Part 2: Acoustic measurements

### **HZN/TO 529, Granici, dizalice i prenosila neprekidne dobave**

prEN 13155 rev en  
Cranes – Non-fixed load lifting attachments

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

prEN ISO 8331 rev en  
Rubber and plastics hoses and hose assemblies –  
Guidelines for selection, storage, use and maintenance  
(ISO/DIS 8331:2011)

prEN ISO 11963 en  
Plastics – Polycarbonate sheets – Types, dimensions  
and characteristics (ISO/DIS 11963:2011)

### **HZN/TO 533/PO 1, Kolničke konstrukcije; Cestograđevni materijali**

FprEN 12697-19 en  
Bituminous mixtures – Test methods for hot mix  
asphalt – Part 19: Permeability of specimen

FprEN 12697-20 en  
Bituminous mixtures – Test methods for hot mix  
asphalt – Part 20: Indentation using cube or cylindrical  
specimens (CY)

FprEN 12697-21 en  
Bituminous mixtures – Test methods for hot mix  
asphalt – Part 21: Indentation using plate specimens

FprEN 12697-30 en  
Bituminous mixtures – Test methods for hot mix asphalt  
– Part 30: Specimen preparation by impact compactor

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

prEN 14564 rev en  
Tanks for transport of dangerous goods – Terminology

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

prEN 13126-9 en  
Building hardware – Hardware for windows and door  
height windows – Requirements and test methods –  
Part 9: Hardware for horizontal and vertical pivot  
windows

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

prEN ISO 1938-1 en  
Geometrical product specifications (GPS) –  
Dimensional measuring equipment – Part 1: Plain limit  
gauges of linear size (ISO/DIS 1938-1:2011)

- FprEN ISO 3040 en  
Geometrical product specifications (GPS)  
– Dimensioning and tolerancing – Cones  
(ISO 3040:2009)
- prEN ISO 25178-70 en  
Geometrical product specification (GPS) – Surface  
texture: Areal – Part 70: Physical measurement  
standards (ISO/DIS 25178-70:2011)
- prEN ISO 25178-603 en  
Geometrical product specifications (GPS) – Surface  
texture: Areal – Part 603: Nominal characteristics of  
non-contact (phase-shifting interferometric  
microscopy) instruments (ISO/DIS 25178-603:2011)

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

- prEN 12098-3 en  
Controls for heating systems – Part 3: Control  
equipment for electrical heating systems  
Regulacija sustava grijanja – 3. dio: Upravljački uređaji  
sustava električnog grijanja
- prEN 13141-8 en  
Ventilation for buildings – Performance testing of  
components/products for residential ventilation –  
Part 8: Performance testing of un-ducted mechanical  
supply and exhaust ventilation units (including heat  
recovery) for mechanical ventilation systems intended  
for a single room  
Ventilacija u u zgradama – Ispitivanje značajki dijelova/  
proizvoda za ventilaciju stambenih zgrada – 8. dio:  
Ispitivanje izvedbi za bezkanalnu dobavnu i otsisnu  
ventilacijsku opremu (uključujući povrat topline) za  
sustave prisilne ventilacije namijenjene jednoj prostoriji
- prEN 16282-1 en  
Equipment for commercial kitchens – Components for  
ventilation of commercial kitchens – Part 1: General  
requirements including calculation method  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
komercijalnih kuhinja – 1. dio: Opći zahtjevi uključujući  
proračunsku metodu
- prEN 16282-2 en  
Equipment for commercial kitchens – Components for  
ventilation of commercial kitchens – Part 2: Kitchen  
ventilation hoods – Design and safety requirements  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
komercijalnih kuhinja – 2. dio: Kuhinjske ventilacijske  
nape – Projektiranje i sigurnosni zahtjevi
- prEN 16282-3 en  
Equipment for commercial kitchens – Components for  
ventilation in commercial kitchens – Part 3: Kitchen  
ventilation ceilings – Design and safety requirements  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 3. dio: Kuhinjski  
ventilacijski stropovi – Projektiranje i sigurnosni  
zahtjevi
- prEN 16282-4 en  
Equipment for commercial kitchens – Components  
for ventilation in commercial kitchens – Part 4: Air  
inlets and outlets – Design and safety requirements  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 4. dio: Ulazi i izlazi zraka  
– Projektiranje i sigurnosni zahtjevi
- prEN 16282-5 en  
Equipment for commercial kitchens – Components  
for ventilation in commercial kitchens – Part 5: Air  
duct – Design and dimensioning  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 5. dio: Kanal za zrak –  
Projektiranje i sigurnosni zahtjevi
- prEN 16282-6 en  
Equipment for commercial kitchens – Components for  
ventilation of commercial kitchens – Part 6: Aerosol  
separators – Design and safety requirements

Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 6. dio: Odvajači aerosola  
– Projektiranje i sigurnosni zahtjevi

- prEN 16282-7 en  
Equipment for commercial kitchens – Components for  
ventilation in commercial kitchens – Part 7: Installation  
and use of fixed fire suppression systems  
Oprema za komercijalne kuhinje – Dijelovi ventilacije u  
komercijalnim kuhinjama – 7. dio: Ugradnja i uporaba  
stabilnih sustava za suzbijanje požara
- prEN 16282-8 en  
Equipment for commercial kitchens – Components for  
ventilation in commercial kitchens – Part 8:  
Installations for treatment of cooking fumes –  
Requirements and testing  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 8. dio: Uređaji za obradu  
kuhinjskih para – Zahtjevi i ispitivanja
- prEN 16282-9 en  
Equipment for commercial kitchens – Components for  
ventilation in commercial kitchens – Part 9: Capture  
and containment performance of extraction systems  
– Test methods  
Oprema za komercijalne kuhinje – Dijelovi ventilacije  
u komercijalnim kuhinjama – 9. dio: Učinkovitost  
izdvajanja i zadržavanja u odsisnim sustavima –  
Metode ispitivanja

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

- prEN 16322 en  
Conservation of cultural property – Test methods –  
Determination of drying properties

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

- EN 13032-1:2004/FprA1 en  
Light and lighting – Measurement and presentation  
of photometric data of lamps and luminaires – Part 1:  
Measurement and file format

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

- prEN 16309 en  
Sustainability of construction works – Assessment of  
social performance of buildings – Methods

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

- FprEN ISO 10545-4 en  
Ceramic tiles – Part 4: Determination of modulus of  
rupture and breaking strength (ISO 10545-4:2004)
- FprEN ISO 10545-6 en  
Ceramic tiles – Part 6: Determination of resistance to  
deep abrasion for unglazed tiles (ISO 10545-6:2010)
- FprEN ISO 10545-16 en  
Ceramic tiles – Part 16: Determination of small colour  
differences (ISO 10545-16:2010)
- EN 15050:2007/FprA1 en  
Precast concrete products – Bridge elements

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

- prEN ISO 10993-3 en  
Biological evaluation of medical devices – Part 3:  
Tests for genotoxicity, carcinogenicity and reproductive  
toxicity (ISO/DIS 10993-3:2011)  
Biološka procjena medicinskih proizvoda – 3. dio:  
Ispitivanja za genotoksičnost, karcinogenetiku i  
reproduktivnu toksičnost (ISO/DIS 10993-3:2011)

## **HZN/TO 557, Zaštitna odjeća**

- prEN ISO 6529 rev en  
Protective clothing – Protection against chemicals  
– Determination of resistance of protective clothing  
materials to permeation by liquids and gases

Zaštitna odjeća — Zaštita od kemikalija — Određivanje otpornosti materijala zaštitne odjeće na upijanje tekućina i plinova

- prEN ISO 13688 en  
Protective clothing — General requirements (ISO/DIS 13688:2011)  
Zaštitna odjeća — Opći zahtjevi (ISO/DIS 13688:2011)

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

- EN 558:2008/FprA1 en  
Industrial valves — Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems — PN and Class designated valves
- prEN 14141 en  
Valves for natural gas transportation in pipelines — Performance requirements and tests

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

- ISO 3635:1981 en  
Size designation of clothes — Definitions and body measurement procedure  
Označivanje veličine odjeće — Definicije i postupak mjerenja tijela
- ISO 3636:1977+Cor 1:1990 en  
Size designation of clothes — Men's and boys' outerwear garments  
Označivanje veličine odjeće — Muška i dječja gornja odjeća
- ISO 3637:1977+Cor 1:1990 en  
Size designation of clothes — Women's and girls' outerwear garments  
Označivanje veličine odjeće — Ženska i djevojačka gornja odjeća
- ISO 8559:1989 en  
Garment construction and anthropometric surveys — Body dimensions  
Oblikovanje odjevnih predmeta i antropometrijska istraživanja — Tjelesne mjere
- ISO 9407:1991 en  
Shoe sizes — Mondopoint system of sizing and marking  
Veličine obuće — Mondopoint sustav veličina i označivanje

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

- prEN 12952-18 en  
Water-tube boilers and auxiliary installations — Part 18: Operating instructions  
Vodocijevni kotlovi i pomoćne instalacije — 18. dio: Upute za rad
- prEN 13776 en  
LPG equipment and accessories — Filling and discharge procedures for LPG road tankers  
Oprema i pribor za UNP — Postupci punjenja i pražnjenja kamionskih cisterni za UNP
- prEN 14129 en  
LPG Equipment and accessories — Pressure relief valves for LPG tanks  
Oprema i pribor za UNP — Sigurnosni ventili spremnika ukapljenoga naftnog plina
- prEN 14427 rev en  
LPG equipment and accessories — Transportable refillable composite cylinders for LPG — Design and construction  
Oprema i pribor za UNP — Prenosive ponovno punjive kompozitne boce za UNP — Projektiranje i konstruiranje

- EN 14678-2:2007/FprA1 en  
LPG equipment and accessories — Equipment for Liquefied Petroleum Gas automotive filling stations — Part 2: Components other than dispensers, and installation requirements  
Oprema i pribor za UNP — Oprema za ukapljeni naftni plin na stanicama za punjenje motornih vozila — 2. dio: Dijelovi osim uređaja za istakanje i zahtjevi ugradnje

### **HZN/TO 562, Alatni strojevi i alati**

- prEN 847-1 rev en  
Tools for woodworking — Safety requirements — Part 1: Milling tools, circular saw blades
- prEN 847-2 rev en  
Tools for woodworking — Safety requirements — Part 2: Requirements for the shank of shank mounted milling
- prEN 847-3 rev en  
Tools for woodworking — Safety requirements — Part 3: Clamping devices
- prEN 1870-10 rev en  
Safety of woodworking machines — Circular sawing machines — Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines
- prEN 1870-12 rev en  
Safety of woodworking machines — Circular sawing machines — Part 12: Pendulum cross-cut sawing machines
- prEN 1870-18 en  
Safety of woodworking machines — Circular sawing machines — Part 18: Dimension saws

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

- prEN 453 en  
Food processing machinery — Dough mixers — Safety and hygiene requirements
- prEN 454 rev en  
Food processing machinery — Planetary mixers — Safety and hygiene requirements
- EN 1010-2:2006+A1:2010 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
- FprEN 1034-8 en  
Safety of machinery — Safety requirements for the design and construction of paper making and finishing machines — Part 8: Refining plants
- FprEN 1034-16 en  
Safety of machinery — Safety requirements for the design and construction of paper making and finishing machines — Part 16: Paper and board making machines
- FprEN 1034-26 en  
Safety of machinery — Safety requirements for the design and construction of paper making and finishing machines — Part 26: Roll packaging machines
- EN ISO 4413:2010 en  
Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010)
- EN ISO 4414:2010 en  
Pneumatic fluid power — General rules and safety requirements for systems and their components (ISO 4414:2010)
- prEN 12041 en  
Food processing machinery — Moulders — Safety and hygiene requirements
- prEN 12042 rev en  
Food processing machinery — Automatic dough dividers — Safety and hygiene requirements

- prEN ISO 13856-1 en  
Safety of machinery – Pressure-sensitive protective devices – Part 1: General principles for design and testing of pressure-sensitive mats and pressure-sensitive floors (ISO/DIS 13856-1:2011)
- prEN ISO 14119 en  
Safety of machinery – Interlocking devices associated with guards – Principles for design and selection (ISO/DIS 14119:2011)
- EN ISO 14122-4:2004/A1:2010 en  
Safety of machinery – Permanent means of access to machinery – Part 4: Fixed ladders (ISO 14122-4:2004/Amd 1:2010)  
Sigurnost strojeva – Trajni način prilaza strojevima – 4. dio: Nepomične ljestve (ISO 14122-4:2004/Amd 1:2010)
- prEN 15180 en  
Food processing machinery – Food depositors – Safety and hygiene requirements
- EN 15518-1:2011 en  
Winter maintenance equipment – Road weather information systems – Part 1: Global definitions and components
- EN 15518-2:2011 en  
Winter maintenance equipment – Road weather information systems – Part 2: Road weather – Recommended observation and forecast
- EN 15518-3:2011 en  
Winter maintenance equipment – Road weather information systems – Part 3: Requirements on measured values of stationary equipments
- EN 15774:2010 en  
Food processing machinery – Machines for processing fresh and filled pasta (tagliatelle, cannelloni, ravioli, tortellini, orecchiette and gnocchi) – Safety and hygiene requirements
- FprEN 15861 en  
Food processing machinery – Smokehouses – Safety and hygiene requirements

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

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

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

- EN 50160:2010 en  
Voltage characteristics of electricity supplied by public electricity networks  
Naponske karakteristike električne energije iz javnih distribucijskih mreža
- EN 50160:2010/FprAA:2010 en  
Voltage characteristics of electricity supplied by public electricity networks  
Naponske karakteristike električne energije iz javnih distribucijskih mreža
- CLC/FprTS 50549-1:2011 en  
Requirements for the connection of generators above 16 A per phase – Part 1: Connection to the LV distribution system  
Zahtjevi za priključak generatora nazivne struje iznad 16 A po fazi – 1. dio: Priključak na niskonaponski distribucijski sustav
- CLC/FprTS 50549-2:2011 en  
Requirements for the connection of generators above 16 A per phase – Part 2: Connection to the MV distribution system

Zahtjevi za priključak generatora nazivne struje iznad 16 A po fazi – 2. dio: Priključak na sredjenaponski distribucijski sustav

- CLC/TR 50555:2010+AC:2011 en  
Interruption indexes  
Pokazatelji prekida napajanja

- EN 60196:2009 en  
IEC standard frequencies (IEC 60196:2009)  
Normirane frekvencije prema IEC-u (IEC 60196:2009)

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

- FprEN 50388:2011 en  
Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability  
Željezničke primjene – Opskrba električnom energijom i željeznička vozila – Tehnički kriteriji za koordinaciju između napajanja (podstanica) i željezničkih vozila radi postizanja interoperabilnosti
- prEN 50547:2011 en  
Railway applications – Batteries for auxiliary power supply systems  
Željezničke primjene – Baterije za sustave pomoćnog napajanja

### **HZN/TO E20, Električni kabeli**

- EN 50399:2011 en  
Common test methods for cables under fire conditions – Heat release and smoke production measurement on cables during flame spread test – Test apparatus, procedures, results  
Opće metode ispitivanja kabela pod djelovanjem vatre – Mjerenje otpuštanja topline i stvaranje dima na kabelima pri ispitivanju širenjem plamena – Ispitni uređaji, postupci, rezultati
- EN 50525-1:2011 en  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 1: General requirements  
Električni kabeli – Niskonaponski energetske kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – 1. dio: Opći zahtjevi
- EN 50525-2-11:2011 en  
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  
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 50525-2-12:2011 en  
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  
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 50525-2-21:2011 en  
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  
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 50525-2-22:2011 en  
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  
Električni kabeli – Niskonaponski energetska 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 50525-2-31:2011 en  
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  
Električni kabeli – Niskonaponski energetska 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 50525-2-41:2011 en  
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  
Električni kabeli – Niskonaponski energetska 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 50525-2-42:2011 en  
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  
Električni kabeli – Niskonaponski energetska 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 50525-2-51:2011 en  
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  
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 50525-2-71:2011 en  
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  
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 50525-2-72:2011 en  
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  
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 50525-2-81:2011 en  
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  
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 elektrolučno zavarivanje
- EN 50525-2-82:2011 en  
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  
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 50525-2-83:2011 en  
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  
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 50525-3-11:2011 en  
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  
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 50525-3-21:2011 en  
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  
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 50525-3-31:2011 en  
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  
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 50525-3-41:2011 en  
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  
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
- prEN 50565-1:2011 en  
Electric cables – Guide to use for cables with a rated voltage not exceeding 450/750 V – Part 1: General guidance

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

FprEN 60669-1:2011 en  
Switches for household and similar fixed-electrical installations – Part 1: General requirements (IEC 60669-1:201X)  
Sklopke za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (IEC 60669-1:201X)

FprEN 60669-2-5:2011 en  
Switches for household and similar fixed electrical installations – Part 2-5: Switches and related accessories for use in home and building electronic systems (HBES) (IEC 60669-2-5:201X)  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-5: Prekidači i odgovarajući pribor za uporabu u elektroničkim sustavima u stanovima i zgradama (HBES) (IEC 60669-2-5:201X)

FprEN 60669-2-5:2011/FprAA:2011 en  
Switches for household and similar fixed electrical installations – Part 2-5: Switches and related accessories for use in home and building electronic systems (HBES)  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-5: Prekidači i odgovarajući pribor za uporabu u elektroničkim sustavima u stanovima i zgradama (HBES)

EN 60934:2001/FprA2:2011 en  
Circuit-breakers for equipment (CBE) (IEC 60934:2000/am2:201X)  
Prekidači za opremu (CBE) (IEC 60934:2000/am2:201X)

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

EN 60061-1:1993/FprA48:2011 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am48:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am48:201X)

EN 60061-2:1993/FprA45:2011 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am45:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am45:201X)

EN 60061-3:1993/FprA46:2011 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am46:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am46:201X)

EN 60810:2003/FprA2:2011 en  
Lamps for road vehicles – Performance requirements (IEC 60810:2003/am2:201X)  
Žarulje za cestovna vozila – Izvedbeni zahtjevi (IEC 60810:2003/am2:201X)

EN 61347-1:2008/FprA2:2011 en  
Lamp controlgear – Part 1: General and safety requirements (IEC 61347-1:2007/am2:201X)  
Predspojne naprave – 1. Dio: Opći i sigurnosni zahtjevi (IEC 61347-1:2007/am2:201X)

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

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

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

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

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

## **HZN/TO E56, Pouzdanost**

FprEN 62628:2011 en  
Guidance on software aspects of dependability (IEC 62628:201X)

## **HZN/TO E57, Upravljanje energetskim sustavom i pridružene komunikacije**

FprEN 61850-10:2011 en  
Communication networks and systems for power utility automation – Part 10: Conformance testing (IEC 61850-10:201X)  
Komunikacijske mreže i sustavi u elektroprivredi – 10. dio: Ispitivanje sukladnosti (IEC 61850-10:201X)

FprEN 61968-11:2011 en  
Application integration at electric utilities – System interfaces for distribution management – Part 11: Common information model (CIM) extensions for distribution (IEC 61968-11:201X)  
Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 11. dio: Proširenja zajedničkog modela podataka (CIM) za distribuciju (IEC 61968-11:201X)

## **HZN/TO E59, Uporabne značajke električnih kućanskih aparata**

EN 61591:1997/prAA:2011 en  
Household range hoods and other cooking fume extractors – Methods for measuring performance

FprEN 62512:2011 en  
Electric clothes washer-dryers for household use – Methods for measuring the performance (IEC 62512:201X)

## **HZN/TO E61, Sigurnost električnih kućanskih i sličnih aparata**

EN 60335-2-30:2009/FprAA:2011 en  
Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters

EN 60335-2-54:2008/FprAA:2011 en  
Household and similar electrical appliances – Safety – Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam

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

EN 60601-2-45:2011 en  
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)  
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 62464-2:2011 en  
Magnetic resonance equipment for medical imaging – Part 2: Classification criteria for pulse sequences (IEC 62464-2:2010)  
Uređaji za dobivanje medicinskih slika pomoću magnetske rezonancije – 2. dio: Kriteriji (mjerila) razredbe impulsnih nizova (IEC 62464-2:2010)

EN 80001-1:2011 en  
Application of risk management for IT-networks incorporating medical devices – Part 1: Roles, responsibilities and activities (IEC 80001-1:2010)  
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)

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

prHD 50573-5-57:2011 en  
Electrical devices coordination

FprHD 60364-7-722:2011 en  
Low voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supply of Electric vehicle

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

FprEN 61010-2-201:2011 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirements for control equipment (IEC 61010-2-201:201X)

FprEN 61131-3:2011 en  
Programmable controllers – Part 3: Programming languages (IEC 61131-3:201X)

FprEN 61499-2:2011 en  
Function blocks – Part 2: Software requirements (IEC 61499-2:201X)

FprEN 61499-4:2011 en  
Function blocks – Part 4: Rules for compliance profiles (IEC 61499-4:201X)

EN 61784-3-18:2011 en  
Industrial communication networks – Profiles – Part 3-18: Functional safety fieldbuses – Additional specifications for CPF 18 (IEC 61784-3-18:2011)  
Industrijske komunikacijske mreže – Profili – Dio 3-18: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Dodatne specifikacije za CPF 18 (IEC 61784-3-18:2011)

EN 61804-3:2011 en  
Function Blocks (FB) for process control – Part 3: Electronic Device Description Language (EDDL) (IEC 61804-3:2010)  
Funkcijski blokovi (FB) za vođenje procesa – 3. dio: Jezik za opis elektroničkih uređaja (EDDL) (IEC 61804-3:2010)

CLC/TR 62685:2011 en  
Industrial communication networks – Profiles – Assessment guideline for safety devices using IEC 61784-3 functional safety communication profiles (FSCPs) (IEC/TR 62685:2010)  
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)

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

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

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

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

EN 61557-13:2011 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 13: Hand-held and hand-manipulated current clamps and sensors for measurement of leakage currents in electrical distribution systems (IEC 61557-13:2011)

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)

### **HZN/TO E88, Vjetroagregati**

FprEN 61400-12-2:2011 en  
Wind turbines – Part 12-2: Power performance of electricity producing wind turbines based on nacelle anemometry (IEC 61400-12-2:201X)

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

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

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

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

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

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

EN 60728-3:2011 en  
Cable networks for television signals, sound signals and interactive services – Part 3: Active wideband equipment for cable networks (IEC 60728-3:2010)  
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 60728-6:2011 en  
Cable networks for television signals, sound signals and interactive services – Part 6: Optical equipment (IEC 60728-6:2011)  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 6. dio: Optička (optoelektronička) oprema (IEC 60728-6:2011)

- EN 61834-4:1998/A1:2011 en  
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 61937-10:2011 en  
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 61966-12-1:2011 en  
Multimedia systems and equipment — Colour measurement and management — Part 12-1: Metadata for identification of colour gamut (Gamut ID) (IEC 61966-12-1:2011)  
Multimedijski sustavi i oprema — Mjerenje i upravljanje bojama — Dio 12-1: Metapodaci (METADATA) za identifikaciju skale (opsega) boja (IEC 61966-12-1:2011)
- FprEN 62087:2011 en  
Methods of measurement for the power consumption of audio, video and related equipment (IEC 62087:2011)
- EN 62216:2011 en  
Digital terrestrial television receivers for the DVB-T system (IEC 62216:2009)  
Digitalni zemaljski televizijski prijemnici za DVB-T sustav (IEC 62216:2009)
- EN 62455:2011 en  
Internet protocol (IP) and transport stream (TS) based service access (IEC 62455:2010)  
Internet protokol (IP) i pristup usluzi utemeljenoj na prenošenju dugačkog niza (podataka) (IEC 62455:2010)
- EN 62458:2011 en  
Sound system equipment — Electroacoustic transducers — Measurement of large signal parameters (IEC 62458:2010)  
Oprema audiosustava — Elektroakustički pretvarači — Mjerenje parametara velikog signala (IEC 62458:2010)
- EN 62459:2011 en  
Sound system equipment — Electroacoustic transducers — Measurement of suspension parts (IEC 62459:2010)  
Oprema audiosustava — Elektroakustički pretvarači — Mjerenje zaostalih dijelova (IEC 62459:2010)
- EN 62481-3:2011 en  
Digital living network alliance (DLNA) home networked device interoperability guidelines — Part 3: Link protection (IEC 62481-3:2010)
- EN 62524:2011 en  
Multimedia systems and equipment — Multimedia e-publishing and e-books — Reader's format for e-publishing (IEC 62524:2009)
- EN 62571:2011 en  
Digital audiobook file format and player requirements (IEC 62571:2011)
- EN 62574:2011 en  
Audio, video and multimedia systems — General channel assignment of multichannel audio (IEC 62574:2011)  
Audio, video i multimedijski sustavi — Opće dodjeljivanje kanala višekanalnog audia (IEC 62574:2011)
- EN 62637-1:2011 en  
Battery charging interface for small handheld multimedia devices — Part 1: 2 mm barrel interface (IEC 62637-1:2011)  
Sučelje za punjenje baterije za male ručne multimedijске uređaje — 1. dio: Valjkasto sučelje od 2 mm (IEC 62637-1:2011)
- EN 62637-2:2011 en  
Battery charging interface for small handheld multimedia devices — Part 2: 2 mm barrel type interface conformance testing (IEC 62637-2:2011)  
Sučelje za punjenje baterije za male ručne multimedijске uređaje — 2. dio: Ispitivanje sukladnosti valjkastog sučelja od 2 mm (IEC 62637-2:2011)
- FprEN 62665:2011 en  
Multimedia systems and equipment — Multimedia e-publishing and e-books technologies — Texture map for auditory presentation of printed texts (IEC 62665:201X)

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

- EN 50364:2010 en  
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  
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 50383:2010 en  
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)  
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 50401:2006/A1:2011 en  
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  
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 50413:2008 en  
Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz — 300 GHz)  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz — 300 GHz)
- EN 50492:2008 en  
Basic standard for the in-situ measurement of electromagnetic field strength related to human exposure in the vicinity of base stations  
Osnovna norma za in-situ mjerenja jakosti elektromagnetskog polja s obzirom na izloženost ljudi u blizini baznih postaja
- EN 50496:2008 en  
Determination of workers' exposure to electromagnetic fields and assessment of risk at a broadcast site  
Određivanje izloženosti radnika elektromagnetskim poljima i procjena rizika na lokaciji radiodifuzijskog odašiljača

- EN 50499:2008 en  
Procedure for the assessment of the exposure of workers to electromagnetic fields  
Postupak procjene izloženosti radnika elektromagnetskim poljima
- EN 50519:2010 en  
Assessment of workers' exposure to electric and magnetic fields of industrial induction heating equipment  
Procjena izloženosti radnika električnim i magnetskim poljima industrijske opreme za indukcijsko zagrijavanje
- EN 50527-1:2010 en  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 1: General  
Postupak za procjenu izloženosti elektromagnetskim poljima radnika koji nose aktivne medicinske implantate – 1. dio: Općenito
- EN 50554:2010 en  
Basic standard for the in-situ assessment of a broadcast site related to general public exposure to radio frequency electromagnetic fields  
Osnovna norma za in-situ procjenu lokacije radiodifuzijskih odašiljača s obzirom na izloženost opće populacije radiofrekvencijskim elektromagnetskim poljima
- EN 62110:2009 en  
Electric and magnetic field levels generated by AC power systems – Measurement procedures with regard to public exposure (IEC 62110:2009)  
Razine električnih i magnetskih polja koja generiraju energetske sustavi izmjenične struje – Postupci mjerenja s obzirom na izloženost opće populacije (IEC 62110:2009)
- FprEN 62209-1:2011 en  
Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (sar) for devices used next to the ear (frequency range of 300 mhz to 6 ghz) (IEC 62209-1:201X)
- EN 62209-2:2010 en  
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)  
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 62479:2010 en  
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)  
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)

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- EN 55016-2-3:2010/FprA2:2011 en  
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EN 13451-3:2011 en  
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prEN 14960 en  
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– Part 4: Additional specific safety requirements and  
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facilities
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insulation and outer casing of polyethylene
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Earth-moving machinery – Safety – Part 4:  
Requirements for backhoe loaders
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Requirements for hydraulic excavators
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collectors – Part 1: General requirements
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built systems – Part 1: General requirements for solar  
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respiration index

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Requirements
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common test procedure (IEC 60695-2-10:201X)
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– Part 3: Standard outlines and lead connections  
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Fibre optic interconnecting devices and passive components — Fibre optic connector product specifications — Part 1-1: LC-PC duplex multi mode connectors terminated on IEC 60793-2 category A1a fibre (IEC 62664-1-1:201X)
- HZN/TU W1, Energetska elektrotehnika 1**
- FprEN 50144-2-7:2011 en  
Safety of hand-held electric motor operated tools — Part 2-7: Particular requirements for spray guns
- prEN 50465:2011 en  
Gas appliances — Combined heat and power appliance of nominal heat input inferior or equal to 70 kW
- EN 60252-1:2011 en  
AC motor capacitors — Part 1: General — Performance, testing and rating — Safety requirements — Guidance for installation and operation (IEC 60252-1:2010)
- EN 60252-2:2011 en  
AC motor capacitors — Part 2: Motor start capacitors (IEC 60252-2:2010)
- EN 60519-6:2011 en  
Safety in electroheat installations — Part 6: Specifications for safety in industrial microwave heating equipment (IEC 60519-6:2011)
- EN 60745-2-1:2010 en  
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 60745-2-11:2010 en  
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 60745-2-12:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-12: Particular requirements for concrete vibrators (IEC 60745-2-12:2003, MOD+am1:2008)
- EN 60745-2-13:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-13: Particular requirements for chain saws (IEC 60745-2-13:2006, MOD)
- EN 60745-2-14:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-14: Particular requirements for planers (IEC 60745-2-14:2003, MOD+am1:2006, MOD)
- EN 60745-2-15:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-15: Particular requirements for hedge trimmers (IEC 60745-2-15:2006, MOD)
- EN 60745-2-18:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-18: Particular requirements for strapping tools (IEC 60745-2-18:2003, MOD+am1:2008)
- EN 60745-2-19:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-19: Particular requirements for jointers (IEC 60745-2-19:2005, MOD)
- EN 60745-2-2:2010 en  
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 60745-2-20:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-20: Particular requirements for band saws (IEC 60745-2-20:2003, MOD+am1:2008)
- EN 60745-2-21:2009 en  
Hand-held motor-operated electric tools — Safety — Part 2-21: Particular requirements for drain cleaners (IEC 60745-2-21:2002, MOD)
- EN 60745-2-3:2011 en  
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/FprA2:2011 en  
Hand-held motor-operated electric tools — Safety — Part 2-3: Particular requirements for grinders, polishers and disk-type sanders (IEC 60745-2-3:2006/am2:201X)
- EN 60745-2-6:2010 en  
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 60745-2-8:2009 en  
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 60745-2-9:2009 en  
Hand-held motor-operated electric tools – Safety – Part 2-9: Particular requirements for tappers (IEC 60745-2-9:2003, MOD+am1:2008)
- EN 61029-1:2009 en  
Safety of transportable motor-operated electric tools – Part 1: General requirements (IEC 61029-1:1990, MOD)
- EN 61029-2-1:2010 en  
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 61029-2-10:2010 en  
Safety of transportable motor-operated electric tools – Part 2-10: Particular requirements for cutting-off grinders (IEC 61029-2-10:1998, MOD)
- EN 61029-2-11:2009 en  
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 61029-2-6:2010 en  
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 61029-2-8:2010 en  
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 61029-2-9:2009 en  
Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws (IEC 61029-2-9:1995, MOD)
- EN 61558-2-12:2011 en  
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 61558-2-20:2011 en  
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 61558-2-9:2011 en  
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)

## 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 5, *Metalne cijevi i priključci*

- HRN EN 1092-3/AC:2007 en  
Prirubnice i njihovi spojevi – Kružne prirubnice za cijevi, ventile, spojne dijelove i pribor s PN-oznakom – 3. dio: Prirubnice od bakrenih slitina (EN 1092-3:2003/AC:2004)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 3: Copper alloy flanges (EN 1092-3:2003/AC:2004)  
- bez zamjene

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

- HRN EN ISO 12625-1:2008 en,fr  
Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 1. dio: Opće smjernice o nazivlju (ISO 12625-1:2005; EN ISO 12625-1:2005)  
Tissue paper and tissue products – Part 1: General guidance on terms (ISO 12625-1:2005; EN ISO 12625-1:2005)  
- zamijenjena s: HRN EN ISO 12625-1:2011

### HZN/TO 25, *Ljevarstvo*

- HRN EN 1370:2001 en  
Ljevarstvo – Vizualno ispitivanje površinske hrapavosti komparatorima (EN 1370:1996)  
Founding – Surface roughness inspection by visual tactile comparators (EN 1370:1996)  
- zamijenjena s: HRN EN 1370:2011
- HRN EN 1563:2004 en  
Ljevarstvo – Nodularni lijevovi (EN 1563:1997+A1:2002)  
Founding – Spheroidal graphite cast irons (EN 1563:1997+A1:2002)  
- zamijenjena s: HRN EN 1563:2011
- HRN EN 1563:2004/A2:2007 en  
Ljevarstvo – Nodularni lijevovi (EN 1563:1997/A2:2005)  
Founding – Spheroidal graphite cast irons (EN 1563:1997/A2:2005)  
- zamijenjena s: HRN EN 1563:2011
- HRN EN 12454:2001 en  
Ljevarstvo – Vizualno ispitivanje površinskih prekinutosti – Čelični odljevci lijevani u jednokratne kalupe (EN 12454:1998)  
Founding – Visual examination of surface discontinuities – Steel sand castings (EN 12454:1998)  
- zamijenjena s: HRN EN 1370:2011

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

- HRN EN ISO 20846:2004 en  
Naftni proizvodi – Određivanje sadržaja sumpora u gorivima za motorna vozila – Metoda ultraljubičaste fluorescencije (ISO 20846:2004; EN ISO 20846:2004)  
Petroleum products – Determination of sulfur content of automotive fuels – Ultraviolet fluorescence method (ISO 20846:2004; EN ISO 20846:2004)  
- zamijenjena s: HRN EN ISO 20846:2011

### HZN/TO 34/PO 7, *Poljoprivredni i prehrambeni proizvodi; Kava, čaj, mirodije i začini*

- HRN ISO 8455:1999 en  
Sirova kava u vrećama – Upute za skladištenje i prijevoz (ISO 8455:1986)  
Green coffee in bags – Guide to storage and transport (ISO 8455:1986)  
- zamijenjena s: HRN ISO 8455:2011

### HZN/TO 43, *Akustika*

- HRN ISO/TR 140-13:2001 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 13. Dio: Smjernice (ISO/TR 140-13:1997)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 13: Guidelines (ISO/TR 140-13:1997)  
- zamijenjena s: HRN EN ISO 140-14:2006

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

- HRN EN 1598:2001 en  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Prozirni zastori za zavarivanje, trake i zaslони za elektrolučne postupke (EN 1598:1997)

Health and safety in welding and allied processes – Transparent welding curtains, strips and screens for arc welding processes (EN 1598:1997)  
- zamijenjena s: HRN EN 1598:2011

HRN EN 1598:2001/A1:2002 en  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Prozirni zastori za zavarivanje, trake i zasloni za elektro-lučne postupke zavarivanja (EN 1598:1997/A1:2001)

Health and safety in welding and allied processes – Transparent welding curtains, strips and screens for arc welding processes (EN 1598:1997/A1:2001)  
- zamijenjena s: HRN EN 1598:2011

HRN EN ISO 14271:2002 en  
Ispitivanje tvrdoće točkastih, bradavičastih i šavnih elektrootporno zavarenih spojeva prema Vickersu (malo opterećenje, mikrotvrdoća) (ISO 14271:2000; EN ISO 14271:2001)

Vickers hardness testing of resistance spot, projection and seam welds (low load and microhardness) (ISO 14271:2000; EN ISO 14271:2001)  
- zamijenjena s: HRN EN ISO 14271:2011

HRN EN ISO 14372:2002 en  
Dodatni i potrošni materijali za zavarivanje – Određivanje otpornosti na vlagu elektroda za ručno elektro-lučno zavarivanje mjerenjem difundiranog vodika (ISO 14372:2000; EN ISO 14372:2001)

Welding consumables – Determination of moisture resistance of manual metal arc welding electrodes by measurement of diffusible hydrogen (ISO 14372:2000; EN ISO 14372:2001)  
- zamijenjena s: HRN EN ISO 14372:2011

HRN CEN/TS 14751:2008 en  
Zavarivanje – Uporaba tehnike difrakcije (TOFD) za ispitivanje zavara (CEN/TS 14751:2004)

Welding – Use of time-of-flight diffraction technique (TOFD) for examination of welds (CEN/TS 14751:2004)  
- zamijenjena s: HRN EN ISO 10863:2011

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

HRN ENV 635-4:1999 en  
Uslojeno drvo – Razredba prema vanjskomu izgledu površine – 4. dio: Parametri prikladnosti za završnu obradbu, smjernica (ENV 635-4:1996)

Plywood – Classification by surface appearance – Part 4: Parameters of ability for finishing, Guideline (ENV 635-4:1996)  
- zamijenjena s: HRS CEN/TS 635-4:2011

HRN ISO 1096:1997 en  
Uslojeno drvo – Razredba (ISO 1096:1975)  
Plywood – Classification (ISO 1096:1975)  
- zamijenjena s: HRN EN 313-1:2008

HRN ENV 1099:2002 en  
Uslojeno drvo – Biološka trajnost – Smjernice za ocjenu uporabe uslojenog drva u različitim razredima opasnosti (ENV 1099:1997)  
Plywood – Biological durability – Guidance for the assessment of plywood for use in different hazard classes (ENV 1099:1997)  
- zamijenjena s: HRS CEN/TS 1099:2011

HRN ISO 2074:1998 hr,en,fr  
Uslojeno drvo – Rječnik (ISO 2074:1972)  
Plywood – Vocabulary (ISO 2074:1972)  
- zamijenjena s: HRN EN 313-2:2008

HRN ISO 9427:1997 en  
Ploče na osnovi drva – Određivanje gustoće (ISO 9427:1989)  
Wood based panels – Determination of density (ISO 9427:1989)  
- zamijenjena s: HRN EN 323:2008

HRN ENV 12872:2002 en  
Ploče na osnovi drva – Smjernice za uporabu nosivih ploča za podove, zidove i stropove (ENV 12872:2000)  
Wood based panels – Guidance on the use of load-bearing boards in floors, walls and roofs (ENV 12872:2000)  
- zamijenjena s: HRS CEN/TS 12872:2011

### **HZN/TO 92, *Zaštita od požara***

HRN EN 15254-4:2008 en  
Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 4. dio: Ostakljene konstrukcije (EN 15254-4:2008)  
Extended application of results from fire resistance tests – Non-loadbearing walls – Part 4: Glazed constructions (EN 15254-4:2008)  
- zamijenjena s: HRN EN 15254-4:2011

### **HZN/TO 108, *Mehaničke vibracije i udari***

HRN ISO 1940-1:2001 en  
Mehaničke vibracije – Zahtjevi za kakvoću uravnoteživanja krutih rotora – 1. dio: Određivanje dopuštenoga preostalog neuravnoteženja (ISO 1940-1:1986)  
Mechanical vibration – Balance quality requirements of rigid rotors – Part 1: Determination of permissible residual unbalance (ISO 1940-1:1986)  
- zamijenjena s: HRN ISO 1940-1:2011

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

HRN EN 12201-1:2003 en  
Plastični cijevni sustavi za opskrbu vodom – Polietilen (PE) – 1. dio: Općenito (EN 12201-1:2003)  
Plastics piping system for water supply – Polyethylene (PE) – Part 1: General (EN 12201-1:2003)  
- zamijenjena s: HRN EN 12201-1:2011

HRN EN 12201-2:2003 en  
Plastični cijevni sustavi za opskrbu vodom – Polietilen (PE) – 2. dio: Cijevi (EN 12201-2:2003)  
Plastics piping system for water supply – Polyethylene (PE) – Part 2: Pipes (EN 12201-2:2003)  
- zamijenjena s: HRN EN 12201-2:2011

HRN EN 12201-3:2003 en  
Plastični cijevni sustavi za opskrbu vodom – Polietilen (PE) – 3. dio: Spojnice (EN 12201-3:2003)  
Plastics piping system for water supply – Polyethylene (PE) – Part 3: Fittings (EN 12201-3:2003)  
- zamijenjena s: HRN EN 12201-3:2011

HRN EN 12201-5:2003 en  
Plastični cijevni sustavi za opskrbu vodom – Polietilen (PE) – 5. dio: Prikladnost sustava za uporabu (EN 12201-5:2003)  
Plastics piping system for water supply – Polyethylene (PE) – Part 5: Fitness for purpose of the system (EN 12201-5:2003)  
- zamijenjena s: HRN EN 12201-5:2011

### **HZN/TO 146, *Kvaliteta zraka***

HRN EN 1540:2006 hr,en,fr,de  
Atmosfera radnih prostora – Nazivlje (EN 1540:1998)  
Workplace atmospheres – Terminology (EN 1540:1998)  
- zamijenjena s: HRN EN 1540:2011

## **HZN/TO 147/PO 6, Kvaliteta vode; Uzorkovanje (opće metode)**

- HRN ISO 5667-5:2000 hr  
Kakvoća vode – Uzorkovanje – 5. dio: Smjernice za uzorkovanje pitke vode i vode za pripremu hrane i napitaka (ISO 5667-5:1991)  
Water quality – Sampling – Part 5: Guidance on the sampling of drinking water and water used for food and beverage processing (ISO 5667-5:1991)  
- zamijenjena s: HRN ISO 5667-5:2011
- HRN ISO 5667-6:2000 hr  
Kakvoća vode – Uzorkovanje – 6. dio: Smjernice za uzorkovanje vode rijeka i potoka (ISO 5667-6:1990)  
Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams (ISO 5667-6:1990)  
- zamijenjena s: HRN ISO 5667-6:2011
- HRN ISO 5667-11:2001 hr  
Kakvoća vode – Uzorkovanje – 11. dio: Smjernice za uzorkovanje podzemnih voda (ISO 5667-11:1993)  
Water quality – Sampling – Part 11: Guidance on sampling of groundwaters (ISO 5667-11:1993)  
- zamijenjena s: HRN ISO 5667-11:2011
- HRN ISO 5667-17:2002 hr  
Kakvoća vode – Uzorkovanje – 17. dio: Smjernice za uzorkovanje suspendiranih krutina (ISO 5667-17:2000)  
Water quality – Sampling – Part 17: Guidance on sampling of suspended sediments (ISO 5667-17:2000)  
- zamijenjena s: HRN ISO 5667-17:2011

## **HZN/TO 159, Ergonomija**

- HRN EN 563:2003 en  
Sigurnost strojeva – Temperature dodirljivih površina – Ergonomijski podaci za utvrđivanje graničnih vrijednosti vrućih površina (EN 563:1994+A1:1999+A1/AC:2000)  
Safety of machinery – Temperatures of touchable surfaces – Ergonomics data to establish temperature limit values for hot surfaces  
EN 563:1994+A1:1999+A1/AC:2000  
- zamijenjena s: HRN EN ISO 13732-1:2008

## **HZN/TO 165, Drvene konstrukcije**

- HRN EN 594:2006 en  
Drvene konstrukcije – Metode ispitivanja – Određivanje nosivosti i krutosti drvenih okvirnih zidnih panela (EN 594:1995)  
Timber structures – Test methods – Racking strength and stiffness of timber frame wall panels (EN 594:1995)  
- zamijenjena s: HRN EN 594:2011
- HRN EN 912:2006 en  
Spajala za drvo – Specifikacije za moždanike posebne izvedbe za drvo (EN 912:1999+AC:2000)  
Timber fasteners – Specifications for connectors for timber (EN 912:1999+AC:2000)  
- zamijenjena s: HRN EN 912:2011

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

- HRN EN 1090-2:2008 en  
Izvedba čeličnih i aluminijevih konstrukcija – 2. dio: Tehnički zahtjevi za čelične konstrukcije (EN 1090-2:2008)  
Execution of steel structures and aluminium structures – Part 2: Technical requirements for steel structures (EN 1090-2:2008)  
- zamijenjena s: HRN EN 1090-2:2011

## **HZN/TO 179, Zidane konstrukcije**

- HRN EN 1520:2006 en  
Predgotovljeni armirani elementi od betona otvorene strukture s laganim agregatom (EN 1520:2002+AC:2003)  
Prefabricated reinforced components of lightweight aggregate concrete with open structure (EN 1520:2002+AC:2003)  
- zamijenjena s: HRN EN 1520:2011

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

- HRN EN 1971:2002 en  
Bakar i bakrene legure – Ispitivanje cijevi vrtložnim strujama (EN 1971:1998)  
Copper and copper alloys – Eddy current test for tubes (EN 1971:1998)  
- zamijenjena s: HRN EN 1971-1:2011

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

- HRN EN ISO 7539-6:2004 en  
Korozija metala i legura – Ispitivanje korozije uz naprezanje – 6 dio: Priprema i primjena uzoraka s urezom za ispitivanja pod stalnim opterećenjem ili stalnim pomakom (ISO 7539-6:2003; EN ISO 7539-6:2003)  
Corrosion of metals and alloys – Stress corrosion testing – Part 6: Preparation and use of pre-cracked specimens for tests under constant load or constant displacement (ISO 7539-6:2003; EN ISO 7539-6:2003)  
- zamijenjena s: HRN EN ISO 7539-6:2011

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

- HRN EN 15102:2008 en  
Dekoratívni zidni pokrovi – Proizvodi u obliku rola i ploča (EN 15102:2007)  
Decorative wallcoverings – Roll and panel form products (EN 15102:2007)  
- zamijenjena s: HRN EN 15102:2011

## **HZN/TO 524, Cestovni prijevoz i prometna telematika**

- HRN EN ISO 14825:2008 en  
Intelligent transport systems – Geographic Data Files (GDF) – Overall data specification (ISO 14825:2004; EN ISO 14825:2004)  
- zamijenjena s: HRN EN ISO 14825:2011

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

- HRN EN 12326-2:2008 en  
Slate and stone products for discontinuous roofing and cladding – Main element – Part 2: Methods of test (EN 12326-2:2000+A1:2004)  
- zamijenjena s: HRN EN 12326-2:2011

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

- HRN EN 14033-3:2010 en  
Oprema za željeznice – Željeznički gornji ustroj – Kolosiječni strojevi za gradnju i održavanje – 3. dio: Opći sigurnosni zahtjevi (EN 14033-3:2009)  
Railway applications – Track – Railbound construction and maintenance machines – Part 3: General safety requirements (EN 14033-3:2009)  
- zamijenjena s: HRN EN 14033-3:2011
- HRN EN 14535-1:2008 en  
Oprema za željeznice – Kočni diskovi za vozni park – 1. dio: Kočni diskovi, naprešani ili toplo navučeni na osovine ili vratila, dimenzije i zahtjevi za kvalitetu (EN 14535-1:2005)  
Railway applications – Brake discs for railway rolling stock – Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements (EN 14535-1:2005)  
- zamijenjena s: HRN EN 14535-1:2011

- HRN EN 15220-1:2009 en  
Railway applications – Brake indicators – Part 1:  
Pneumatically operated brake indicators  
(EN 15220-1:2008)  
- zamijenjena s: HRN EN 15220-1:2011
- HRN EN 15595:2009 en  
Railway applications – Braking – Wheel slide  
protection (EN 15595:2009)  
- zamijenjena s: HRN EN 15595:2011

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

- HRN EN ISO 6224:2009 en  
Plastomerna crijeva, ojačana tekstilom, opće namjene  
za vodu – Specifikacija (ISO 6224:2005;  
EN ISO 6224:2008)  
Thermoplastics hoses, textile-reinforced, for general-  
purpose water applications – Specification  
(ISO 6224:2005; EN ISO 6224:2008)  
- zamijenjena s: HRN EN ISO 6224:2011

### HZN/TO 544, *Strojni elementi*

- HRN EN ISO 1580:2005 en  
Vijci valjkaste glave s urezom – Proizvod kvalitete  
izrade A (ISO 1580:1994; EN ISO 1580:1994)  
Slotted pan head screws – Product grade A  
(ISO 1580:1994; EN ISO 1580:1994)  
- zamijenjena s: HRN EN ISO 1580:2011
- HRN EN ISO 2009:2008 en  
Vijci s upuštenom ravnom glavom s urezom (uobičajeni  
oblik glave) – Proizvod razreda A (ISO 2009:1994;  
EN ISO 2009:1994)  
Slotted countersunk flat head screws (common head  
style) – Product grade A (ISO 2009:1994;  
EN ISO 2009:1994)  
- zamijenjena s: HRN EN ISO 2009:2011
- HRN EN ISO 2010:2008 en  
Vijci s upuštenom lećastom glavom s urezom  
(uobičajeni oblik glave) – Proizvod razreda A  
(ISO 2010:1994; EN ISO 2010:1994)  
Slotted raised countersunk head screws (common  
head style) – Product grade A (ISO 2010:1994;  
EN ISO 2010:1994)  
- zamijenjena s: HRN EN ISO 2010:2011
- HRN EN ISO 7045:2008 en  
Vijci s valjkastom zaobljenom glavom s križnim  
upustom tipa H ili Z – Proizvod razreda A  
(ISO 7045:1994; EN ISO 7045:1994)  
Pan head screws with type H or type Z cross recess –  
Product grade A (ISO 7045:1994; EN ISO 7045:1994)  
- zamijenjena s: HRN EN ISO 7045:2011
- HRN EN ISO 7046-1:2008 en  
Vijci s upuštenom ravnom glavom (uobičajeni oblik  
glave s križnim upustom tipa H ili Z) – Proizvod razreda  
A – 1. dio: Čelik razreda čvrstoće 4.8  
(ISO 7046-1:1994; EN ISO 7046-1:1994)  
Countersunk flat head screws (common head style  
with type H or type Z cross recess) – Product grade A  
– Part 1: Steel of property class 4.8 (ISO 7046-1:1994;  
EN ISO 7046-1:1994)  
- zamijenjena s: HRN EN ISO 7046-1:2011
- HRN EN ISO 7046-2:2008 en  
Vijci s upuštenom ravnom glavom s križnim upustom  
(uobičajeni oblik glave) – Razred A – 2. dio: Čelik  
razreda čvrstoće 8.8, nehrđajući čelik i neželjezne  
kovine (ISO 7046-2:1990; EN ISO 7046-2:1994)  
Cross recessed countersunk flat head screws  
(common head style) – Grade A – Part 2: Steel of  
property class 8.8, stainless and non-ferrous metals  
(ISO 7046-2:1990; EN ISO 7046-2:1994)  
- zamijenjena s: HRN EN ISO 7046-2:2011
- HRN EN ISO 7047:2008 en  
Vijci s upuštenom lećastom glavom (uobičajeni oblik  
glave) s križnim upustom tipa H ili Z – Proizvod razreda  
A (ISO 7047:1994; EN ISO 7047:1994)

Countersunk raised head screws (common head style)  
with type H or type Z cross recess – Product grade A  
(ISO 7047:1994; EN ISO 7047:1994)  
- zamijenjena s: HRN EN ISO 7047:2011

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

- HRN EN 1998-1:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 1. dio: Opća pravila, potresna djelovanja i  
pravila za zgrade (EN 1998-1:2004)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 1: General rules, seismic actions  
and rules for buildings (EN 1998-1:2004)  
- zamijenjena s: HRN EN 1998-1:2011
- HRN EN 1998-1:2008/Ispr.1:2011 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 1. dio: Opća pravila, potresna djelovanja i  
pravila za zgrade (EN 1998-1:2004/AC:2009)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 1: General rules, seismic actions  
and rules for buildings (EN 1998-1:2004/AC:2009)  
- zamijenjena s: HRN EN 1998-1:2011
- HRN EN 1998-2:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 2. dio: Mostovi (EN 1998-2:2005)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 2: Bridges (EN 1998-2:2005)  
- zamijenjena s: HRN EN 1998-2:2011
- HRN EN 1998-2:2008/A1:2011 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 2. dio: Mostovi (EN 1998-2:2005/A1:2009)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 2: Bridges  
(EN 1998-2:2005/A1:2009)  
- zamijenjena s: HRN EN 1998-2:2011
- HRN EN 1998-2:2008/Ispr.1:2011 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 2. dio: Mostovi (EN 1998-2:2005/AC:2010)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 2: Bridges  
(EN 1998-2:2005/AC:2010)  
- zamijenjena s: HRN EN 1998-2:2011
- HRN EN 1998-3:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 3. dio: Ocjenjivanje i obnova zgrada  
(EN 1998-3:2005)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 3: Assessment and retrofitting of  
buildings (EN 1998-3:2005)  
- zamijenjena s: HRN EN 1998-3:2011
- HRN EN 1998-3:2008/Ispr.1:2011 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 3. dio: Ocjenjivanje i obnova zgrada  
(EN 1998-3:2005/AC:2010)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 3: Assessment and retrofitting of  
buildings (EN 1998-3:2005/AC:2010)  
- zamijenjena s: HRN EN 1998-3:2011
- HRN EN 1998-4:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 4. dio: Silosi, spremnici i cjevovodi  
(EN 1998-4:2006)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 4: Silos, tanks and pipelines  
(EN 1998-4:2006)  
- zamijenjena s: HRN EN 1998-4:2011
- HRN EN 1998-5:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na  
potres – 5. dio: Temelji, potporne konstrukcije i  
geotehnička pitanja (EN 1998-5:2004)  
Eurocode 8: Design of structures for earthquake  
resistance – Part 5: Foundations, retaining structures  
and geotechnical aspects (EN 1998-5:2004)  
- zamijenjena s: HRN EN 1998-5:2011

HRN EN 1998-6:2008 en  
Eurokod 8: Projektiranje konstrukcija otpornih na potres – 6. dio: Tornjevi, jarboli i dimnjaci (EN 1998-6:2005)  
Eurocode 8: Design of structures for earthquake resistance – Part 6: Towers, masts and chimneys (EN 1998-6:2005)  
- zamijenjena s: HRN EN 1998-6:2011

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

HRN ISO 9836:2002 en  
Standardi za svojstva zgrada – Definiranje i proračun površina i prostora (ISO 9836:1992)  
Performance standards in building – Definition and calculation of area and space indicators (ISO 9836:1992)  
- zamijenjena s: HRN ISO 9836:2011

HRN ISO 15686-1:2002 en  
Zgrade i druge građevine – Planiranje vijeka uporabe – 1. dio: Opća načela (ISO 15686-1:2000)  
Buildings and constructed assets – Service life planning – Part 1: General principles (ISO 15686-1:2000)  
- zamijenjena s: HRN ISO 15686-1:2011

HRS ISO/TS 21931-1:2009 en  
Održivost pri gradnji zgrada – Metodološki okvir za ocjenjivanje svojstva građevina s obzirom na okoliš – 1. dio: Zgrade (ISO/TS 21931-1:2006)  
Sustainability in building construction – Framework for methods of assessment for environmental performance of construction works – Part 1: Buildings (ISO/TS 21931-1:2006)  
- zamijenjena s: HRN ISO 21931-1:2011

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

HRN EN 13224:2008 en  
Predgotovljeni betonski proizvodi – Rebrasti stropni elementi (EN 13224:2004+A1:2007)  
Precast concrete products – Ribbed floor elements (EN 13224:2004+A1:2007)  
- zamijenjena s: HRN EN 13224:2011

HRN EN 14844:2008 en  
Predgotovljeni betonski proizvodi – Okvirni propusti (EN 14844:2006+A1:2008)  
Precast concrete products – Box culverts (EN 14844:2006+A1:2008)  
- zamijenjena s: HRN EN 14844:2011

HRN EN 15037-2:2009 en  
Predgotovljeni betonski proizvodi – Stropni sustavi sastavljeni od nosača i blokova (ispune) – 2. dio: Betonski blokovi (EN 15037-2:2009)  
Precast concrete products – Beam-and-block floor systems – Part 2: Concrete blocks (EN 15037-2:2009)  
- zamijenjena s: HRN EN 15037-2:2011

HRN EN 15037-3:2009 en  
Predgotovljeni betonski proizvodi – Stropni sustavi sastavljeni od nosača i blokova (ispune) – 3. dio: Glineni blokovi (EN 15037-3:2009)  
Precast concrete products – Beam-and-block floor systems – Part 3: Clay blocks (EN 15037-3:2009)  
- zamijenjena s: HRN EN 15037-3:2011

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

HRN EN ISO 14184-1:2008 en  
Tekstilije – Određivanje formaldehida – 1. dio: Slobodni i hidrolizirani formaldehid (metoda ekstrakcije vodom) (ISO 14184-1:1998; EN ISO 14184-1:1998)  
Textiles – Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde (water extraction method) (ISO 14184-1:1998; EN ISO 14184-1:1998)  
- zamijenjena s: HRN EN ISO 14184-1:2011

HRN EN 29092:2003 en,fr  
Tekstil – Netkani tekstil – Definicije (ISO 9092:1988; EN 29092:1992)  
Textiles – Nonwovens – Definitions (ISO 9092:1988; EN 29092:1992)  
- zamijenjena s: HRN EN ISO 9092:2011

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

HRN EN 12463:2006 en  
Strojevi za preradu hrane – Strojevi za punjenje i pomoćni strojevi – Sigurnosni i higijenski zahtjevi (EN 12463:2004)  
Food processing machinery – Filling machines and auxiliary machines – Safety and hygiene requirements (EN 12463:2004)  
- zamijenjena s: HRN EN 12463:2011

HRN EN 15430-1:2008 en  
Winter and road service area maintenance equipments – Data acquisition and transmission – Part 1: In vehicle data acquisition (EN 15430-1:2007)  
- zamijenjena s: HRN EN 15430-1:2011

HRN EN 15432:2008 en  
Winter and road service area maintenance equipments – Front-mounted equipments – Interchangeability (EN 15432:2008)  
- zamijenjena s: HRN EN 15432-1:2011

### **HZN/TO 564, Uljarice, biljna i životinjska ulja i masti**

HRN EN 14103:2005 en  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje estera i sadržaja metilnih estera linolenske kiseline (EN 14103:2003)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of ester and linolenic acid methyl ester contents (EN 14103:2003)  
- zamijenjena s: HRN EN 14103:2011

HRN EN 14105:2005 en  
Derivati masti i ulja – Metilni esteri masnih kiselina – Određivanje sadržaja slobodnog i ukupnog glicerola sadržaja mono-, di- i triglicerida (referentna metoda) (EN 14105:2003)  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of free and total glycerol and mono-, di-, triglyceride contents (Reference method) (EN 14105:2003)  
- zamijenjena s: HRN EN 14105:2011

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

HRN IEC 60038:1998 en  
IEC normirani naponi (IEC 60038:1983+am1:1994+am2:1997)  
IEC Standard voltages (IEC 60038:1983+am1:1994+am2:1997)  
- zamijenjena s: HRN EN 60038:2011

### **HZN/TO E20, Električni kabeli**

HRN IEC 60050-461:2001 hr,en,fr  
Međunarodni elektrotehnički rječnik – 461. poglavlje: Električni kabeli (IEC 60050-461:1984+A1:1993+A2:1999)  
International Electrotechnical Vocabulary – Chapter 461: Electric cables (IEC 60050-461:1984+A1:1993+A2:1999)  
- zamijenjena s: HRN IEC 60050-461:2011

## HZN/TO E31, *Eksplozivne atmosfere*

- HRN EN 14034-1:2006 en  
Određivanje eksplozivnih karakteristika za oblake prašina — 1. dio: Određivanje najvećeg tlaka eksplozije  $p_{max}$  oblaka prašine (EN 14034-1:2004)  
Determination of explosion characteristics of dust clouds — Part 1: Determination of the maximum explosion pressure  $p_{max}$  of dust clouds (EN 14034-1:2004)  
- zamijenjena s: HRN EN 14034-1:2011
- HRN EN 14034-2:2007 en  
Određivanje eksplozivnih karakteristika za oblake prašina — 2. dio: Određivanje najvećeg nazivnog porasta tlaka eksplozije  $(dp/dt)_{max}$  oblaka prašine (EN 14034-2:2006)  
Determination of explosion characteristics of dust clouds — Part 2: Determination of the maximum rate of explosion pressure rise  $(dp/dt)_{max}$  of dust clouds (EN 14034-2:2006)  
- zamijenjena s: HRN EN 14034-2:2011
- HRN EN 14034-3:2007 en  
Određivanje eksplozivnih karakteristika za oblake prašina — 3. dio: Određivanje donje granice eksplozivnosti DGE oblaka prašine (EN 14034-3:2006)  
Determination of explosion characteristics of dust clouds — Part 3: Determination of the lower explosion limit LEL of dust clouds (EN 14034-3:2006)  
- zamijenjena s: HRN EN 14034-3:2011
- HRN EN 14034-4:2006 en  
Određivanje eksplozivnih karakteristika za oblake prašina — 4. dio: Određivanje graničnih koncentracija kisika u oblacima prašine (EN 14034-4:2004)  
Determination of explosion characteristics of dust clouds — Part 4: Determination of the limiting oxygen concentration LOC of dust clouds (EN 14034-4:2004)  
- zamijenjena s: HRN EN 14034-4:2011

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

- HRN EN 131-1:2011 en  
Ljestve — 1. dio: Nazivi, tipovi, funkcionalne veličine (EN 131-1:2007+A1:2011)  
Ladders — Part 1: Terms, types, functional sizes (EN 131-1:2007+A1:2011)  
- zamijenjena s: HRN EN 131-1:2011 hr
- HRN EN 131-2:2011 en  
Ladders — Part 2: Requirements, testing, marking (EN 131-2:2010)  
- zamijenjena s: HRN EN 131-2:2011 hr
- HRN EN 131-3:2008 en  
Ladders — Part 3: User Instructions (EN 131-3:2007)  
- zamijenjena s: HRN EN 131-3:2011
- HRN EN 131-4:2008 en  
Ladders — Part 4: Single or multiple hinge-joint ladders (EN 131-4:2007)  
- zamijenjena s: HRN EN 131-4:2011
- HRN EN 893:2004 en  
Planinarska oprema — Dereze — Sigurnosni zahtjevi i metode ispitivanja (EN 893:1999)  
Mountaineering equipment — Crampons — Safety requirements and test methods (EN 893:1999)  
- zamijenjena s: HRN EN 893:2011
- HRN EN ISO 5912:2008 en  
Camping tents (ISO 5912:2003; EN ISO 5912:2005)  
- zamijenjena s: HRN EN ISO 5912:2011
- HRN EN 12572:2008 en  
Artificial climbing structures — Protection points, stability requirements and test methods (EN 12572:1998)  
- zamijenjena s: HRN EN 12572-1:2008

## HZN/TU I2, *Strojarstvo 2*

- HRN EN 488:2008 en  
District heating pipes — Preinsulated bonded pipe systems for directly buried hot water networks — Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene (EN 488:2003)  
- zamijenjena s: HRN EN 488:2011
- HRN EN 500-4:2009 en  
Mobile road construction machinery — Safety — Part 4: Specific requirements for compaction machines (EN 500-4:2006+A1:2009)  
- zamijenjena s: HRN EN 500-4:2011
- HRN EN ISO 2867:2009 en  
Earth-moving machinery — Access systems (ISO 2867:2006+Cor 1:2008; EN ISO 2867:2008)  
- zamijenjena s: HRN EN ISO 2867:2011
- HRN EN ISO 3450:2009 en  
Earth-moving machinery — Braking systems of rubber-tyred machines — Systems and performance requirements and test procedures (ISO 3450:1996; EN ISO 3450:2008)  
- zamijenjena s: HRN EN ISO 3450:2011
- HRN EN 12629-1:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 1: Common requirements (EN 12629-1:2000)  
- zamijenjena s: HRN EN 12629-1:2011
- HRN EN 12629-2:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 2: Block making machines (EN 12629-2:2002)  
- zamijenjena s: HRN EN 12629-2:2011
- HRN EN 12629-3:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 3: Slide and turntable machines (EN 12629-3:2002)  
- zamijenjena s: HRN EN 12629-3:2011
- HRN EN 12629-4:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 4: Concrete roof tile making machines (EN 12629-4:2001)  
- zamijenjena s: HRN EN 12629-4:2011
- HRN EN 12629-5-1:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 5-1: Pipe making machines manufacturing in the vertical axis (EN 12629-5-1:2003)  
- zamijenjena s: HRN EN 12629-5-1:2011
- HRN EN 12629-5-2:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 5-2: Pipe making machines manufacturing in the horizontal axis (EN 12629-5-2:2003)  
- zamijenjena s: HRN EN 12629-5-2:2011
- HRN EN 12629-5-3:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 5-3: Pipe prestressing machines (EN 12629-5-3:2003)  
- zamijenjena s: HRN EN 12629-5-3:2011
- HRN EN 12629-5-4:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate — Safety — Part 5-4: Concrete pipe coating machines (EN 12629-5-4:2003)  
- zamijenjena s: HRN EN 12629-5-4:2011

- HRN EN 12629-6:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 6: Stationary and mobile equipment for the manufacture of precast reinforced products (EN 12629-6:2004)  
- zamijenjena s: HRN EN 12629-6:2011
- HRN EN 12629-7:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 7: Stationary and mobile equipment for long line manufacture of prestressed products (EN 12629-7:2004)  
- zamijenjena s: HRN EN 12629-7:2011
- HRN EN 12629-8:2008 en  
Machines for the manufacture of constructional products from concrete and calcium-silicate – Safety – Part 8: Machines and equipment for the manufacture of constructional products from calcium-silicate (and concrete) (EN 12629-8:2002)  
- zamijenjena s: HRN EN 12629-8:2011
- HRN EN 12649:2008 en  
Concrete compactors and smoothing machines – Safety (EN 12649:2008)  
- zamijenjena s: HRN EN 12649:2011

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

- HRN EN ISO 8362-4:2008 en  
Injection containers and accessories – Part 4: Injection vials made of moulded glass (ISO 8362-4:2003; EN ISO 8362-4:2004)  
- zamijenjena s: HRN EN ISO 8362-4:2011
- HRN EN ISO 8536-1:2008 en  
Infusion equipment for medical use – Part 1: Infusion glass bottles (ISO 8536-1:2006; EN ISO 8536-1:2008)  
- zamijenjena s: HRN EN ISO 8536-1:2011

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

- HRN EN 2491:2008 en  
Aerospace series – Molybdenum disulphide dry lubricants – Coating methods (EN 2491:1997)  
- zamijenjena s: HRN EN 2491:2011
- HRN EN 2997-001:2008 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 001: Technical specification (EN 2997-001:2006)  
- zamijenjena s: HRN EN 2997-001:2011
- HRN EN 3155-002:2008 en  
Aerospace series – Electrical contacts used in elements of connection – Part 002: List and utilization of contacts (EN 3155-002:2006)  
- zamijenjena s: HRN EN 3155-002:2011
- HRN EN 3280:2008 en  
Aerospace series – Bearings, airframe rolling, rigid or self-aligning – Technical specification (EN 3280:1994)  
- zamijenjena s: HRN EN 3280:2011
- HRN EN 3475-603:2008 en  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 603: Resistance to wet arc tracking (EN 3475-603:2007)  
- zamijenjena s: HRN EN 3475-603:2011
- HRN EN 4008-007:2008 en  
Aerospace series – Elements of electrical and optical connection – Crimping tools and associated accessories – Part 007: Positioner for crimping tool M22520/2-01 – Product standard (EN 4008-007:2006)  
- zamijenjena s: HRN EN 4008-007:2011

- HRN EN 4008-008:2008 en  
Aerospace series – Elements of electrical and optical connection – Crimping tools and associated accessories – Part 008: Positioner for crimping tool M22520/7-01 – Product standard (EN 4008-008:2006)  
- zamijenjena s: HRN EN 4008-008:2011
- HRN EN 9101:2008 en  
Aerospace series – Quality management systems – Assessment (based on ISO 9001:2000) (EN 9101:2008)  
- zamijenjena s: HRN EN 9101:2011



## **2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju**

### **01.040.07 Matematika. Prirodne znanosti (Rječnici)**

#### **Međunarodna normizacija (IEC)**

IEC 60050-113:2011/Corr.1:2011  
International Electrotechnical Vocabulary – Part 113:  
Physics for electrotechnology

### **01.040.13 Zaštita okoliša i zdravlja. Sigurnost (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 26800:2011  
Ergonomics – General approach, principles and concepts

#### **Europska normizacija**

EN ISO 26800:2011  
Ergonomics – General approach, principles and concepts (ISO 26800:2011)

### **01.040.17 Metrologija i mjerenje. Fizikalne pojave (Rječnici)**

#### **Europska normizacija**

EN ISO 772:2011  
Hydrometry – Vocabulary and symbols (ISO 772:2011)

### **01.040.29 Elektrotehnika (Rječnici)**

#### **Međunarodna normizacija (IEC)**

IEC 60050-113:2011/Corr.1:2011  
International Electrotechnical Vocabulary – Part 113:  
Physics for electrotechnology

### **01.040.31 Elektronika (Rječnici)**

#### **Međunarodna normizacija (IEC)**

IEC/TR 62728:2011  
Display technologies – LCD, PDP and OLED –  
Overview and explanation of differences in terminology

#### **Europska normizacija**

EN 61988-1:2011  
Plasma display panels – Part 1: Terminology and letter  
symbols (IEC 61988-1:2011)

### **01.040.49 Zrakoplovna i svemiroplavna tehnika (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 10795:2011  
Space systems – Programme management and  
quality – Vocabulary

### **01.040.81 Industrija stakla i keramike (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 12543-1:2011  
Glass in building – Laminated glass and laminated  
safety glass – Part 1: Definitions and description of  
component parts

#### **Europska normizacija**

EN ISO 12543-1:2011  
Glass in building – Laminated glass and laminated  
safety glass – Part 1: Definitions and description of  
component parts (ISO 12543-1:2011)

### **01.040.83 Industrija gume i plastike (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 4223-1:2002/Amd 1:2011  
Definitions of some terms used in the tyre industry –  
Part 1: Pneumatic tyres

### **01.040.85 Papirna tehnologija (Rječnici)**

#### **Europska normizacija**

EN ISO 12625-1:2011  
Tissue paper and tissue products – Part 1: General  
guidance on terms (ISO 12625-1:2011)

### **01.040.91 Građevna gradiva i gradnja (Rječnici)**

#### **Međunarodna normizacija (ISO)**

ISO 29464:2011  
Cleaning equipment for air and other gases –  
Terminology

### **01.080.01 Grafički znakovi općenito**

#### **Europska normizacija**

EN 80416-3:2002/A1:2011  
Basic principles for graphical symbols for use on  
equipment – Part 3: Guidelines for the application of  
graphical symbols (IEC 80416-3:2002/A1:2011)

### **01.100.20 Građevni crteži**

#### **Međunarodna normizacija (ISO)**

ISO 5459:2011  
Geometrical product specifications (GPS) –  
Geometrical tolerancing – Datums and datum systems

#### **Europska normizacija**

EN ISO 5459:2011  
Geometrical product specifications (GPS) –  
Geometrical tolerancing – Datums and datum systems  
(ISO 5459:2011)

## 01.100.25 Crteži u elektrotehnici i elektronici

### Europska normizacija

EN 60191-6-12:2011

Mechanical standardization of semiconductor devices – Part 6-12: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guidelines for fine-pitch land grid array (FLGA) (IEC 60191-6-12:2011)

## 01.110 Tehnička dokumentacija o proizvodu

### Međunarodna normizacija (ISO)

ISO 29845:2011

Technical product documentation – Document types

## 01.120 Normizacija. Opća pravila

### Europska normizacija

CLC Guide 1:2011

Survey of Resolutions of the CENELEC General Assembly

## 01.140.10 Pisanje i transliteracija

### Međunarodna normizacija (ISO)

ISO 24614-2:2011

Language resource management – Word segmentation of written texts – Part 2: Word segmentation for Chinese, Japanese and Korean

## 01.140.20 Informacijske znanosti

### Međunarodna normizacija (ISO)

ISO/TR 23081-3:2011

Information and documentation – Managing metadata for records – Part 3: Self-assessment method

ISO 25964-1:2011

Information and documentation – Thesauri and interoperability with other vocabularies – Part 1: Thesauri for information retrieval

ISO 15511:2011

Information and documentation – International standard identifier for libraries and related organizations (ISIL)

## 03.080.10 Industrijske usluge

### Europska normizacija

EN 15331:2011

Criteria for design, management and control of maintenance services for buildings

## 03.080.20 Usluge za poduzeća

### Europska normizacija

EN 16082:2011

Airport and aviation security services

## 03.100.01 Ustrojstvo poduzeća i upravljanje poduzećem općenito

### Međunarodna normizacija (ISO)

IWA 9:2011

Framework for managing sustainable development in business districts

## 03.100.30 Upravljanje ljudskim vrelima

### Europska normizacija

CWA 16335:2011

Biosafety professional competence

## 03.120.30 Primjena statističkih metoda

### Međunarodna normizacija (ISO)

ISO 3951-4:2011

Sampling procedures for inspection by variables – Part 4: Procedures for assessment of declared quality levels

ISO 13053-1:2011

Quantitative methods in process improvement – Six Sigma – Part 1: DMAIC methodology

ISO 13053-2:2011

Quantitative methods in process improvement – Six Sigma – Part 2: Tools and techniques

## 03.220.20 Cestovni prijevoz

### Europska normizacija

EN 16062:2011

Intelligent transport systems – eSafety – eCall high level application requirements (HLAP)

## 03.240 Poštanske usluge

### Europska normizacija

EN 14142-1:2011

Postal services – Address databases – Part 1: Components of postal addresses

CEN/TR 14142-2:2011

Postal Services – Address databases – Part 2: Element mapping conventions, template design considerations, address templates and rendition instructions

## 07.030 Fizika. Kemija

### Međunarodna normizacija (IEC)

IEC 60050-113:2011/Corr.1:2011

International Electrotechnical Vocabulary – Part 113: Physics for electrotechnology

## 07.040 Astronomija. Geodezija. Zemljopis

### Europska normizacija

CEN/TR 15449:2011

Geographic information – Standards, specifications, technical reports and guidelines, required to implement Spatial Data Infrastructures

## 07.100.01 Mikrobiologija općenito

### Europska normizacija

- CWA 15793:2011  
Laboratory biorisk management
- CWA 16335:2011  
Biosafety professional competence

## 07.100.30 Mikrobiologija hrane

### Međunarodna normizacija (ISO)

- ISO 16140:2003/AMD 1:2011  
Microbiology of food and animal feeding stuffs –  
Protocol for the validation of alternative methods;  
Amendment 1

### Europska normizacija

- EN ISO 16140:2003/A1:2011  
Microbiology of food and animal feeding stuffs –  
Protocol for the validation of alternative methods –  
Amendment 1 (ISO 16140:2003/AMD 1:2011)

## 11.040.10 Anestezijska, respiracijska i reanimacijska oprema

### Međunarodna normizacija (ISO)

- ISO 11990-1:2011  
Lasers and laser-related equipment – Determination  
of laser resistance of tracheal tubes – Part 1: Tracheal  
tube shaft

- ISO/IEC 80601-2-13:2011  
Medical electrical equipment – Part 2-13: Particular  
requirements for basic safety and essential  
performance of an anaesthetic workstation

### Europska normizacija

- EN 60601-2-4:2011  
Medical electrical equipment – Part 2-4: Particular  
requirements for the basic safety and essential  
performance of cardiac defibrillators  
(IEC 60601-2-4:2010)
- EN ISO 11990-1:2011  
Lasers and laser-related equipment – Determination  
of laser resistance of tracheal tubes – Part 1: Tracheal  
tube shaft (ISO 11990-1:2011)

## 11.040.20 Transfuzijska, infuzijska i injekcijska oprema

### Međunarodna normizacija (ISO)

- ISO 8362-4:2011  
Injection containers and accessories – Part 4: Injection  
vials made of moulded glass
- ISO 8536-1:2011  
Infusion equipment for medical use – Part 1: Infusion  
glass bottles

### Europska normizacija

- EN ISO 8362-4:2011  
Injection containers and accessories – Part 4: Injection  
vials made of moulded glass (ISO/FDIS 8362-4:2011)
- EN ISO 8536-1:2011  
Infusion equipment for medical use – Part 1: Infusion  
glass bottles (ISO/FDIS 8536-1:2011)

## 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

### Međunarodna normizacija (ISO)

- ISO 5834-2:2011  
Implants for surgery – Ultra-high-molecular-weight  
polyethylene – Part 2: Moulded forms

## 11.040.60 Terapeutska oprema

### Europska normizacija

- EN 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  
(IEC 60601-2-31:2008/am1:2011)

## 11.040.70 Oftalmološka oprema

### Međunarodna normizacija (ISO)

- ISO 10943:2011  
Ophthalmic instruments – Indirect ophthalmoscopes

### Europska normizacija

- EN ISO 10943:2011  
Ophthalmic instruments – Indirect ophthalmoscopes  
(ISO 10943:2011)

## 11.060.10 Zubarska gradiva

### Međunarodna normizacija (ISO)

- ISO 24234:2004/A1:2011  
Dentistry – Mercury and alloys for dental amalgam  
– Amendment 1: Requirements for marking and  
manufacturer's instructions concerning mercury

### Europska normizacija

- EN ISO 24234:2004/A1:2011  
Dentistry – Mercury and alloys for dental amalgam  
– Amendment 1: Requirements for marking and  
manufacturer's instructions concerning mercury  
(ISO 24234:2004/A1:2011)

## 11.060.25 Zubarski instrumenti

### Međunarodna normizacija (ISO)

- ISO 1797-1:2011  
Dentistry – Shanks for rotary instruments – Part 1:  
Shanks made of metals
- ISO 7494-1:2011  
Dentistry – Dental units – Part 1: General requirements  
and test methods

### Europska normizacija

- EN ISO 1797-1:2011  
Dentistry – Shanks for rotary instruments – Part 1:  
Shanks made of metals (ISO 1797-1:2011)
- EN ISO 7494-1:2011  
Dentistry – Dental units – Part 1: General requirements  
and test methods (ISO 7494-1:2011)

## 11.140 Bolnička oprema

### Europska normizacija

EN 60601-2-46:2011  
Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables (IEC 60601-2-46:2010)

## 11.180.10 Pomoć i prilagodbe za kretanje

### Međunarodna normizacija (ISO)

ISO 24415-2:2011  
Tips for assistive products for walking – Requirements and test methods – Part 2: Durability of tips for crutches

## 11.180.15 Pomagala za gluhe osobe i za osobe sa oštećenjem sluha

### Europska normizacija

EN 60118-13:2011  
Electroacoustics – Hearing aids – Part 13: Electromagnetic compatibility (EMC) (IEC 60118-13:2011)

## 13.020.01 Okoliš i zaštita okoliša općenito

### Međunarodna normizacija (ISO)

IWA 9:2011  
Framework for managing sustainable development in business districts

## 13.020.10 Upravljanje okolišem

### Međunarodna normizacija (ISO)

ISO 14051:2011  
Environmental management – Material flow cost accounting – General framework

### Europska normizacija

EN ISO 14051:2011  
Environmental management – Material flow cost accounting – General framework (ISO 14051:2011)

## 13.020.70 Projekti o okolišu

### Europska normizacija

CEN/TR 16220:2011  
Construction products – Assessment of release of dangerous substances – Complement to sampling

## 13.020.99 Druge norme koje se odnose na zaštitu okoliša

### Međunarodna normizacija (ISO)

ISO 21070:2011  
Ships and marine technology – Marine environment protection – Management and handling of shipboard garbage

## 13.030.40 Instalacije i oprema za odlaganje i obradbu otpada

### Europska normizacija

EN 13071-3:2011  
Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 3: Recommended lifting connections

## 13.040.20 Kakvoća zraka u okolišu

### Europska normizacija

CEN/TR 16243:2011  
Ambient air quality – Guide for the measurement of elemental carbon (EC) and organic carbon (OC) deposited on filters

CEN/TR 16269:2011  
Ambient air – Guide for the measurement of anions and cations in PM<sub>2,5</sub>

## 13.060.10 Voda iz prirodnih izvora

### Europska normizacija

EN 16039:2011  
Water quality – Guidance standard on assessing the hydromorphological features of lakes

## 13.080.99 Druge norme koje se odnose na kakvoću tla

### Međunarodna normizacija (ISO)

ISO 28901:2011  
Soil quality – Guidance for burial of animal carcasses to prevent epidemics

## 13.110 Sigurnost strojeva

### Europska normizacija

EN 60204-1:2006/AC:2010  
Safety of machinery – Electrical equipment of machines – Part 1: General requirements

EN 60204-11:2000/AC:2011  
Safety of machinery – Electrical equipment of machines – Part 11: Requirements for HV equipment for voltages above 1 000 V a.c. or 1 500 V d.c. and not exceeding 36 kV

EN 61496-1:2004/AC:2010  
Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests

EN 62061:2005/AC:2010  
Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems

## 13.180 Ergonomija

### Međunarodna normizacija (ISO)

ISO 16121-2:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 2: Visibility

ISO 16121-3:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 3: Information devices and controls

ISO 16121-4:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 4: Cabin environment

ISO 26800:2011  
Ergonomics – General approach, principles and concepts

#### **Europska normizacija**

EN ISO 26800:2011  
Ergonomics – General approach, principles and concepts (ISO 26800:2011)

### **13.220.01 Zaštita od požara općenito**

#### **Međunarodna normizacija (ISO)**

ISO 19706:2011  
Guidelines for assessing the fire threat to people

### **13.220.10 Vatrogastvo**

#### **Međunarodna normizacija (ISO)**

ISO 7203-3:2011  
Fire extinguishing media – Foam concentrates – Part 3: Specification for low-expansion foam concentrates for top application to water-miscible liquids

### **13.220.20 Oprema za zaštitu od požara**

#### **Međunarodna normizacija (ISO)**

ISO 7240-7:2011  
Fire detection and alarm systems – Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization

#### **Europska normizacija**

EN 16081:2011  
Hyperbaric chambers – Specific requirements for fire extinguishing systems – Performance, installation and testing

### **13.220.40 Zapaljivost i ponašanje pri izgaranju gradiva i proizvoda**

#### **Međunarodna normizacija (ISO)**

ISO 12136:2011  
Reaction to fire tests – Measurement of material properties using a fire propagation apparatus

#### **Međunarodna normizacija (IEC)**

IEC 60695-6-2:2011  
Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods

IEC 60695-7-2:2011  
Fire hazard testing – Part 7-2: Toxicity of fire effluent – Summary and relevance of test methods

IEC 60695-7-3:2011  
Fire hazard testing – Part 7-3: Toxicity of fire effluent – Use and interpretation of test results

IEC 60695-11-4:2011  
Fire hazard testing – Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method

### **13.220.50 Vatrootpornost građevnih gradiva i elemenata**

#### **Međunarodna normizacija (ISO)**

ISO 12136:2011  
Reaction to fire tests – Measurement of material properties using a fire propagation apparatus

### **13.310 Zaštita od kriminala**

#### **Europska normizacija**

EN 16082:2011  
Airport and aviation security services

### **13.320 Alarmni sustavi i sustavi uzbuñivanja**

#### **Međunarodna normizacija (IEC)**

IEC 61831:2011  
On-line analyser systems – Guide to design and installation

#### **Europska normizacija**

EN 50543:2011/AC:2011  
Electronic portable and transportable apparatus designed to detect and measure carbon dioxide and/or carbon monoxide in indoor ambient air – Requirements and test methods

EN 50545-1:2011  
Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels – Part 1: General performance requirements and test methods for the detection and measurement of carbon monoxide and nitrogen oxides

### **13.340.30 Uređaji za zaštitu dišnih organa**

#### **Međunarodna normizacija (ISO)**

ISO 16900-4:2011  
Respiratory protective devices – Methods of test and test equipment – Part 4: Determination of gas filter capacity and migration, desorption and carbon monoxide dynamic testing

### **17.040.30 Mjerila**

#### **Međunarodna normizacija (ISO)**

ISO 5459:2011  
Geometrical product specifications (GPS) – Geometrical tolerancing – Datums and datum systems

#### **Europska normizacija**

EN ISO 5459:2011  
Geometrical product specifications (GPS) – Geometrical tolerancing – Datums and datum systems (ISO 5459:2011)

### **17.120.20 Protok u otvorenim kanalima**

#### **Europska normizacija**

EN ISO 772:2011  
Hydrometry – Vocabulary and symbols (ISO 772:2011)

## 17.140.20 Buka koju proizvode strojevi i oprema

### Međunarodna normizacija (IEC)

IEC 60704-2-10:2011

Household and similar electrical appliances — Test code for the determination of airborne acoustical noise — Part 2-10: Particular requirements for electric cooking ranges, ovens, grills, microwave ovens and any combination of these

## 17.160 Vibracije, udari i mjerenja vibracija

### Međunarodna normizacija (ISO)

ISO 16063-41:2011

Methods for the calibration of vibration and shock transducers — Part 41: Calibration of laser vibrometers

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Europska normizacija

EN 61557-13:2011

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 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

## 19.040 Ispitivanje utjecaja okoliša

### Međunarodna normizacija (IEC)

IEC 60068-3-1:2011

Environmental testing — Part 3-1: Supporting documentation and guidance — Cold and dry heat tests

IEC 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

## 19.100 Nerazorna ispitivanja

### Međunarodna normizacija (ISO)

ISO 16371-1:2011

Non-destructive testing — Industrial computed radiography with storage phosphor imaging plates — Part 1: Classification of systems

### Europska normizacija

EN 16016-2:2011

Non destructive testing — Radiation methods — Computed tomography — Part 2: Principle, equipment and samples

EN 16016-3:2011

Non destructive testing — Radiation methods — Computed Tomography — Part 3: Operation and interpretation

EN 16016-4:2011

Non destructive testing — Radiation methods — Computed tomography — Part 4: Qualification

## 21.060.10 Svornjaci, vijci, usadni vijci

### Međunarodna normizacija (ISO)

ISO 4766:2011

Slotted set screws with flat point

ISO 7380-1:2011

Button head screws — Part 1: Hexagon socket button head screws

ISO 7380-2:2011

Button head screws — Part 2: Hexagon socket button head screws with collar

ISO 1580:2011

Slotted pan head screws — Product grade A

ISO 2009:2011

Slotted countersunk flat head screws — Product grade A

ISO 2010:2011

Slotted raised countersunk head screws — Product grade A

ISO 7045:2011

Pan head screws with type H or type Z cross recess — Product grade A

ISO 7046-1:2011

Countersunk flat head screws (common head style) with type H or type Z cross recess — Product grade A — Part 1: Steel screws of property class 4.8

ISO 7046-2:2011

Countersunk flat head screws (common head style) with type H or type Z cross recess — Product grade A — Part 2: Steel screws of property class 8.8, stainless steel screws and non-ferrous metal screws

ISO 7047:2011

Raised countersunk head screws (common head style) with type H or type Z cross recess — Product grade A

### Europska normizacija

EN ISO 4766:2011

Slotted set screws with flat point (ISO 4766:2011)

EN ISO 7049:2011

Cross-recessed pan head tapping screws (ISO/FDIS 7049:2011)

EN ISO 7050:2011

Cross-recessed countersunk (flat) head tapping screws (ISO 7050:2011)

EN ISO 7051:2011

Cross-recessed raised countersunk (oval) head tapping screws (ISO 7051:2011)

EN ISO 7053:2011

Hexagon washer head tapping screws (ISO 7053:2011)

EN ISO 7380-1:2011

Button head screws — Part 1: Hexagon socket button head screws (ISO 7380-1:2011)

EN ISO 7380-2:2011

Button head screws — Part 2: Hexagon socket button head screws with collar (ISO 7380-2:2011)

EN ISO 1580:2011

Slotted pan head screws — Product grade A (ISO 1580:2011)

EN ISO 2009:2011

Slotted countersunk flat head screws — Product grade A (ISO 2009:2011)

EN ISO 2010:2011

Slotted raised countersunk head screws — Product grade A (ISO 2010:2011)

EN ISO 7045:2011

Pan head screws with type H or type Z cross recess — Product grade A (ISO 7045:2011)

- EN ISO 7046-1:2011  
Countersunk flat head screws (common head style) with type H or type Z cross recess – Product grade A – Part 1: Steel screws of property class 4.8 (ISO 7046-1:2011)
- EN ISO 7046-2:2011  
Countersunk flat head screws (common head style) with type H or type Z cross recess – Product grade A – Part 2: Steel screws of property class 8.8, stainless steel screws and non-ferrous metal screws (ISO 7046-2:2011)
- EN ISO 7047:2011  
Raised countersunk head screws (common head style) with type H or type Z cross recess – Product grade A (ISO 7047:2011)

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija (ISO)

- ISO 12090-1:2011  
Rolling bearings – Profiled rail guides for linear motion rolling bearings – Part 1: Boundary dimensions and tolerances for series 1, 2 and 3
- ISO 12090-2:2011  
Rolling bearings – Profiled rail guides for linear motion rolling bearings – Part 2: Boundary dimensions and tolerances for series 4 and 5

## 23.020.30 Tlačne posude, cilindrični plinski spremnici

### Međunarodna normizacija (ISO)

- ISO 11513:2011  
Gas cylinders – Refillable welded steel cylinders containing materials for sub-atmospheric gas packaging (excluding acetylene) – Design, construction, testing, use and periodic inspection
- ISO/TR 13086-1:2011  
Gas cylinders – Guidance for design of composite cylinders – Part 1: Stress rupture of fibres and burst ratios related to test pressure

## 23.040.01 Cjevovodne sastavnice i cjevovodi općenito

### Međunarodna normizacija (ISO)

- ISO 9311-2:2011  
Adhesives for thermoplastic piping systems – Part 2: Determination of shear strength

### Europska normizacija

- EN 12666-1:2005+A1:2011  
Plastics piping systems for non-pressure underground drainage and sewerage – Polyethylene (PE) – Part 1: Specifications for pipes, fittings and the system
- EN ISO 9311-2:2011  
Adhesives for thermoplastic piping systems – Part 2: Determination of shear strength (ISO 9311-2:2011)

## 23.040.20 Plastične cijevi

### Međunarodna normizacija (ISO)

- ISO 10147:2011  
Pipes and fittings made of crosslinked polyethylene (PE-X) – Estimation of the degree of crosslinking by determination of the gel content

- ISO 11299-1:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General
- ISO 11299-3:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes

## 23.040.45 Plastični fitinzi

### Međunarodna normizacija (ISO)

- ISO 10147:2011  
Pipes and fittings made of crosslinked polyethylene (PE-X) – Estimation of the degree of crosslinking by determination of the gel content
- ISO 11299-1:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General
- ISO 11299-3:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes

## 23.040.70 Spojevi sipkih cijevi

### Međunarodna normizacija (ISO)

- ISO 4671:2007/Amd 1:2011  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies – Amendment 1: Clarification of position at which outside diameter is measured
- ISO 6801:1983/Amd 1:2011  
Rubber or plastics hoses – Determination of volumetric expansion – Amendment 1: Deletion of alcohol as pressurizing fluid

### Europska normizacija

- EN 13618:2011  
Flexible hose assemblies in drinking water installations – Functional requirements and test methods
- EN 26801:1993/A1:2011  
Rubber or plastics hoses – Determination of volumetric expansion – Amendment 1: Deletion of alcohol as pressurizing fluid (ISO 6801:1983/Amd 1:2011)
- EN ISO 4671:2007/A1:2011  
Rubber and plastics hoses and hose assemblies – Methods of measurement of the dimensions of hoses and the lengths of hose assemblies – Amendment 1: Clarification of position at which outside diameter is measured (ISO 4671:2007/Amd 1:2011)

## 23.080 Pumpe

### Međunarodna normizacija (IEC)

- IEC 60335-2-51/am2:2011  
Household and similar electrical appliances – Safety – Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations; Amendment 2

## 23.160 Vakuumska tehnika

### Međunarodna normizacija (ISO)

- ISO 27893:2011  
Vacuum technology – Vacuum gauges – Evaluation of the uncertainties of results of calibrations by direct comparison with a reference gauge

## 25.040.01 Sustavi industrijske automatizacije općenito

### Međunarodna normizacija (ISO)

- ISO 11354-1:2011  
Advanced automation technologies and their applications – Requirements for establishing manufacturing enterprise process interoperability – Part 1: Framework for enterprise interoperability

### Europska normizacija

- EN ISO 11354-1:2011  
Advanced automation technologies and their applications – Requirements for establishing manufacturing enterprise process interoperability – Part 1: Framework for enterprise interoperability (ISO 11354-1:2011)

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

### Europska normizacija

- EN 62061:2005/AC:2010  
Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems

## 25.080.01 Alatni strojevi općenito

### Europska normizacija

- EN 61029-1:2009/AC:2009  
Safety of transportable motor-operated electric tools – Part 1: General requirements

## 25.100.10 Alati za tokarenje

### Međunarodna normizacija (ISO)

- ISO 6261:2011  
Tool holders with cylindrical shank (boring bars) for indexable inserts – Designation

## 25.100.30 Svrkla, razvrtaći

### Međunarodna normizacija (ISO)

- ISO 2238:2011  
Machine bridge reamers

## 25.120.10 Oprema za kovanje. Preše. Škare

### Međunarodna normizacija (ISO)

- ISO 9183-2:2011  
Tools for pressing – Wear plates for press dies – Part 2: Type B
- ISO 10242-1:2011  
Tools for pressing – Punch holder shanks – Part 1: Type A
- ISO 18084:2011  
Press tools for tablets – Punches and dies

## 25.120.30 Oprema za oblikovanje

### Međunarodna normizacija (ISO)

- ISO 6751:2011  
Tools for moulding – Ejector pins with cylindrical head
- ISO 8693:2011  
Tools for moulding – Flat ejector pins
- ISO 8694:2011  
Tools for moulding – Shouldered ejector pins

## 25.140.20 Električni alati

### Međunarodna normizacija (IEC)

- IEC 60335-2-45/am2:2011  
Household and similar electrical appliances – Safety – Part 2-45: Particular requirements for portable heating tools and similar appliances

## 25.160.20 Potrošna gradiva za zavarivanje

### Međunarodna normizacija (ISO)

- ISO 26304:2011  
Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels – Classification

### Europska normizacija

- 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)

## 25.160.40 Zavareni spojevi

### Međunarodna normizacija (ISO)

- ISO 10863:2011  
Non-destructive testing of welds – Ultrasonic testing – Use of time-of-flight diffraction technique (TOFD)
- ISO 14271:2011  
Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds
- ISO 17654:2011  
Resistance welding – Destructive tests of welds – Pressure test of resistance seam welds

### Europska normizacija

- EN ISO 10863:2011  
Non-destructive testing of welds – Ultrasonic testing – Use of time-of-flight diffraction technique (TOFD) (ISO 10863:2011)
- EN ISO 14271:2011  
Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds (ISO 14271:2011)
- EN ISO 17654:2011  
Resistance welding – Destructive tests of welds – Pressure test of resistance seam welds (ISO 17654:2011)



## 25.220.20 Površinska obradba

### Međunarodna normizacija (ISO)

- ISO 12679:2011  
Thermal spraying – Recommendations for thermal spraying

## 27.060.10 Plamenici za tekuće i kruto gorivo

### Europska normizacija

- EN 267:2009+A1:2011  
Automatic forced draught burners for liquid fuels

## 27.120.20 Nuklearna postrojenja. Sigurnost

### Međunarodna normizacija (IEC)

- IEC 61513:2011  
Nuclear power plants – Instrumentation and control important to safety – General requirements for systems
- IEC/IEEE 62582-1:2011  
Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 1: General
- IEC/IEEE 62582-2:2011  
Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 2: Indenter modulus
- IEC/IEEE 62582-4:2011  
Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 4: Oxidation induction techniques

### Europska normizacija

- EN 60671:2011  
Nuclear power plants – Instrumentation and control systems important to safety – Surveillance testing (IEC 60671:2007)
- EN 60965:2011  
Nuclear power plants – Control rooms – Supplementary control points for reactor shutdown without access to the main control room (IEC 60965:2009)
- EN 61500:2011  
Nuclear power plants – Instrumentation and control important to safety – Data communication in systems performing category A functions (IEC 61500:2009)

## 27.160 Sunčeva energija

### Europska normizacija

- EN 62253:2011  
Photovoltaic pumping systems – Design qualification and performance measurements (IEC 62253:2011)

## 29.020 Elektrotehnika općenito

### Međunarodna normizacija (IEC)

- IEC 60695-6-2:2011  
Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods
- IEC 60695-7-2:2011  
Fire hazard testing – Part 7-2: Toxicity of fire effluent – Summary and relevance of test methods

- IEC 60695-7-3:2011  
Fire hazard testing – Part 7-3: Toxicity of fire effluent – Use and interpretation of test results
- IEC 60050-113:2011/Corr.1:2011  
International Electrotechnical Vocabulary – Part 113: Physics for electrotechnology
- IEC 60695-11-4:2011  
Fire hazard testing – Part 11-4: Test flames – 50 W flame – Apparatus and confirmational test method

### Europska normizacija

- EN 80416-3:2002/A1:2011  
Basic principles for graphical symbols for use on equipment – Part 3: Guidelines for the application of graphical symbols (IEC 80416-3:2002/am1:2011)

## 29.035.10 Papirna i kartonska izolacijska gradiva

### Međunarodna normizacija (IEC)

- IEC 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 60684-2:2011  
Flexible insulating sleeving – Part 2: Methods of test
- IEC 60227-7/am2:2011  
Amendment 2 – Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 7: Flexible cables screened and unscreened with two or more conductors
- IEC 60245-3/am2:2011  
Amendment 2 – Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 3: Heat resistant silicone insulated cables
- IEC 60245-8/am2:2011  
Amendment 2 – Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 8: Cords for applications requiring high flexibility
- IEC 60674-3-1/am1:2011  
Amendment 1 – Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Biaxially oriented polypropylene (PP) film for capacitors
- IEC 60819-3-3:2011  
Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 3: Unfilled aramid (aromatic polyamide) papers

### Europska normizacija

- EN 60674-3-8:2011  
Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 8: Balanced biaxially oriented polyethylene naphthalate (PEN) films used for electrical insulation (IEC 60674-3-8:2011)
- EN 60684-3-205:2011  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving, flame retarded, nominal shrink ratio 1,7:1 and 2:1 (IEC 60684-3-205:2011)

- EN 60684-3-271:2011  
Flexible insulating sleeving — Part 3: Specifications for individual types of sleeving — Sheet 271: Heat-shrinkable elastomer sleeveings, flame retarded, fluid resistant, shrink ratio 2:1 (IEC 60684-3-271:2011)
- EN 60684-2:2011  
Flexible insulating sleeving — Part 2: Methods of test (IEC 60684-2:2011)

## 29.050 Električno vodljiva gradiva

### Europska normizacija

- EN 61788-4:2011  
Superconductivity — Part 4: Residual resistance ratio measurement — Residual resistance ratio of Nb-Ti composite superconductors (IEC 61788-4:2011)
- EN 61788-6:2011  
Superconductivity — Part 6: Mechanical properties measurement — Room temperature tensile test of Cu/Nb-Ti composite superconductors (IEC 61788-6:2011)
- EN 61788-11:2011  
Superconductivity — Part 11: Residual resistance ratio measurement — Residual resistance ratio of Nb<sub>3</sub>Sn composite superconductors (IEC 61788-11:2011)

## 29.060.10 Žice

### Europska normizacija

- EN 60851-5:2008/A1:2011  
Winding wires — Test methods — Part 5: Electrical properties (IEC 60851-5:2008/am1:2011)

## 29.060.20 Kabeli

### Međunarodna normizacija (IEC)

- IEC 60227-7/am2:2011  
Amendment 2 — Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V — Part 7: Flexible cables screened and unscreened with two or more conductors
- IEC 60245-3/am2:2011  
Amendment 2 — Rubber insulated cables — Rated voltages up to and including 450/750 V — Part 3: Heat resistant silicone insulated cables
- IEC 60245-8/am2:2011  
Amendment 2 — Rubber insulated cables — Rated voltages up to and including 450/750 V — Part 8: Cords for applications requiring high flexibility

## 29.080.30 Izolacijski sustavi

### Europska normizacija

- EN 60505:2011  
Evaluation and qualification of electrical insulation systems (IEC 60505:2011)

## 29.120.10 Zaštitne cijevi za električne potrebe

### Međunarodna normizacija (IEC)

- IEC 61386-25:2011  
Conduit systems for cable management — Part 25: Particular requirements — Conduit fixing devices

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija (IEC)

- IEC 62271-1 ed1.1:2011  
High-voltage switchgear and controlgear — Part 1: Common specifications
- IEC 62271-102:2003/am1:2011  
Amendment 1 — High-voltage switchgear and controlgear — Part 102: Alternating current disconnectors and earthing switches
- IEC 62271-106:2011  
High-voltage switchgear and controlgear — Part 106: Alternating current contactors, contactor-based controllers and motor-starters
- IEC 62271-203:2011  
High-voltage switchgear and controlgear — Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV

### Europska normizacija

- EN 62271-1:2008/A1:2011  
High-voltage switchgear and controlgear — Part 1: Common specifications (IEC 62271-1:2007/am1:2011)

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija (IEC)

- IEC 61439-1:2011  
Low-voltage switchgear and controlgear assemblies — Part 1: General rules
- IEC 61439-2:2011  
Low-voltage switchgear and controlgear assemblies — Part 2: Power switchgear and controlgear assemblies
- IEC 62208:2011  
Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements

### Europska normizacija

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

## 29.140.10 Kape i držači svjetiljki

### Međunarodna normizacija (IEC)

- IEC 60061-3/am44:2011  
Amendment 44 — Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 3: Gau
- IEC 60400 ed7.1:2011  
Lamp holders for tubular fluorescent lamps and starterholders
- IEC 60061-4/am14:2011  
Amendment 14 — Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 4: Guidelines and general information

### Europska normizacija

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

EN 60061-1:1993/A46:2011

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

EN 60061-4:1992/A13:2011

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990/A13:2010)

### **29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem**

#### **Međunarodna normizacija (IEC)**

IEC 62554:2011

Sample preparation for measurement of mercury level in fluorescent lamps

#### **Europska normizacija**

EN 62386-209:2011

Digital addressable lighting interface – Part 209: Particular requirements for control gear – Colour control (device type 8) (IEC 62386-209:2011)

### **29.140.99 Druge norme koje se odnose na svjetiljke**

#### **Međunarodna normizacija (IEC)**

IEC 60929:2011/Corr.1:2011

AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements

IEC 61347-2-3:2011/Corr.1:2011

Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

### **29.160.30 Motori**

#### **Međunarodna normizacija (IEC)**

IEC 60335-2-95:2011

Household and similar electrical appliances – Safety – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

### **29.160.40 Električni agregati**

#### **Međunarodna normizacija (IEC)**

IEC 62040-3:2011/Corr.1:2011

Uninterruptible power systems (UPS) – Part 3: Method of specifying the performance and test requirements

### **29.180 Transformatori. Prigušnice**

#### **Međunarodna normizacija (IEC)**

IEC 60076-16:2011

Power transformers – Part 16: Transformers for wind turbine applications

### **29.220.20 Kiseli sekundarni članci i baterije**

#### **Europska normizacija**

EN 62660-1:2011

Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing (IEC 62660-1:2010)

EN 62660-2:2011

Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing (IEC 62660-2:2010)

### **29.240.99 Druga oprema koja se upotrebljava u mrežama za prijenos i razdiobu električne energije**

#### **Međunarodna normizacija (IEC)**

IEC/TR 62544:2011

High-voltage direct current (HVDC) systems – Application of active filters

### **29.260.20 Električni uređaji za eksplozivnu atmosferu**

#### **Europska normizacija**

EN 60079-35-1:2011/AC:2011

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

### **31.020 Elektroničke sastavnice općenito**

#### **Europska normizacija**

EN 61709:2011

Electric components – Reliability – Reference conditions for failure rates and stress models for conversion (IEC 61709:2011)

### **31.080.01 Poluvodički uređaji općenito**

#### **Međunarodna normizacija (IEC)**

IEC 60749-30 ed1.1:2011

Semiconductor devices – Mechanical and climatic test methods – Part 30: Preconditioning of non-hermetic surface mount devices prior to reliability testing

IEC 62047-12:2011

Semiconductor devices – Micro-electromechanical devices – Part 12: Bending fatigue testing method of thin film materials using resonant vibration of MEMS structures

#### **Europska normizacija**

EN 60749-21:2011

Semiconductor devices – Mechanical and climatic test methods – Part 21: Solderability (IEC 60749-21:2011)

EN 60749-29:2011

Semiconductor devices – Mechanical and climatic test methods – Part 29: Latch-up test (IEC 60749-29:2011)

EN 62047-5:2011

Semiconductor devices – Micro-electromechanical devices – Part 5: RF MEMS switches (IEC 62047-5:2011)

EN 62047-7:2011

Semiconductor devices – Micro-electromechanical devices – Part 7: MEMS BAW filter and duplexer for radio frequency control and selection (IEC 62047-7:2011)

EN 62047-9:2011  
Semiconductor devices – Micro-electromechanical devices – Part 9: Wafer to wafer bonding strength measurement for MEMS (IEC 62047-9:2011)

EN 60749-40:2011  
Semiconductor devices – Mechanical and climatic test methods – Part 40: Board level drop test method using a strain gauge (IEC 60749-40:2011)

## 31.120 Elektronički pokazni uređaji

### Međunarodna normizacija (IEC)

IEC 61988-2-4:2011  
Plasma display panels – Part 2-4: Measuring methods – Visual quality: Image artifacts

IEC/TR 62728:2011  
Display technologies – LCD, PDP and OLED – Overview and explanation of differences in terminology

### Europska normizacija

EN 61747-5-2:2011  
Liquid crystal display devices – Part 5-2: Environmental, endurance and mechanical test methods – Visual inspection of active matrix colour liquid crystal display modules (IEC 61747-5-2:2011)

EN 61747-6-2:2011  
Liquid crystal display devices – Part 6-2: Measuring methods for liquid crystal display modules – Reflective type (IEC 61747-6-2:2011)

EN 61747-6-3:2011  
Liquid crystal display devices – Part 6-3: Measuring methods for liquid crystal display modules – Motion artifact measurement of active matrix liquid crystal display modules (IEC 61747-6-3:2011)

EN 61988-1:2011  
Plasma display panels – Part 1: Terminology and letter symbols (IEC 61988-1:2011)

## 31.180 Tiskani krugovi i pločice

### Međunarodna normizacija (IEC)

IEC/PAS 61249-6-3:2011  
Specification for finished fabric woven from “E” glass for printed boards

## 31.190 Sklopovi elektroničkih sastavnica

### Međunarodna normizacija (IEC)

IEC 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

## 31.200 Integrirani krugovi. Mikroelektronika

### Međunarodna normizacija (IEC)

IEC 61967-8:2011  
Integrated circuits – Measurement of electromagnetic emissions – Part 8: Measurement of radiated emissions – IC stripline method

## 31.220.01 Elektromehaničke sastavnice općenito

### Međunarodna normizacija (IEC)

IEC 62047-12:2011  
Semiconductor devices – Micro-electromechanical devices – Part 12: Bending fatigue testing method of thin film materials using resonant vibration of MEMS structures

### Europska normizacija

EN 62047-5:2011  
Semiconductor devices – Micro-electromechanical devices – Part 5: RF MEMS switches (IEC 62047-5:2011)

EN 62047-7:2011  
Semiconductor devices – Micro-electromechanical devices – Part 7: MEMS BAW filter and duplexer for radio frequency control and selection (IEC 62047-7:2011)

EN 62047-9:2011  
Semiconductor devices – Micro-electromechanical devices – Part 9: Wafer to wafer bonding strength measurement for MEMS (IEC 62047-9:2011)

EN 62047-10:2011  
Semiconductor devices – Micro-electromechanical devices – Part 10: Micro-pillar compression test for MEMS materials (IEC 62047-10:2011)

## 31.220.10 Utikački i utičnički uređaji. Konektori

### Europska normizacija

EN 60512-9-3:2011  
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 61076-2:2011  
Connectors for electronic equipment – Product requirements – Part 2: Sectional specification for circular connectors (IEC 61076-2:2011)

EN 61076-2-001:2011  
Connectors for electronic equipment – Product requirements – Part 2-001: Circular connectors – Blank detail specification (IEC 61076-2-001:2011)

## 31.240 Mehaničke konstrukcije za elektroničku opremu

### Međunarodna normizacija (IEC)

IEC 61587-2:2011  
Mechanical structures for electronic equipment – Tests for IEC 60917 and 60297 – Part 2: Seismic tests for cabinets and racks

### Europska normizacija

EN 60191-6-12:2011  
Mechanical standardization of semiconductor devices – Part 6-12: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guidelines for fine-pitch land grid array (FLGA) (IEC 60191-6-12:2011)

## 31.260 Optoelektronika. Laserska oprema

### Medunarodna normizacija (ISO)

ISO 11990-1:2011

Lasers and laser-related equipment — Determination of laser resistance of tracheal tubes — Part 1: Tracheal tube shaft

ISO/TR 21254-4:2011

Lasers and laser-related equipment — Test methods for laser-induced damage threshold — Part 4: Inspection, detection and measurement

### Europska normizacija

EN ISO 11990-1:2011

Lasers and laser-related equipment — Determination of laser resistance of tracheal tubes — Part 1: Tracheal tube shaft (ISO 11990-1:2011)

## 33.040.20 Prijenosni sustavi

### Medunarodna normizacija (IEC)

IEC 61970-301:2011

Energy management system application program interface (EMS-API) — Part 301: Common information model (CIM) base

## 33.040.40 Mreže za prijenos podataka

### Medunarodna normizacija (ISO)

ISO/IEC 29168-1:2011

Information technology — Open systems interconnection — Part 1: Object identifier resolution system

### Medunarodna normizacija (IEC)

IEC 61850-9-2:2011

Communication networks and systems for power utility automation — Part 9-2: Specific communication service mapping (SCSM) — Sampled values over ISO/IEC 8802-3

## 33.060.20 Prijamna i odašiljačka oprema

### Europska normizacija

EN 300 433-1 V1.3.1

Electromagnetic compatibility and Radio spectrum Matters (ERM) — Citizens' Band (CB) radio equipment — Part 1: Technical characteristics and methods of measurement

EN 300 433-2 V1.3.1

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

EN 301 842-1 V1.3.3

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 301 908-2 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 network — 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 301 908-18 V5.2.1

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)

EN 302 842-1 V1.2.3

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 302 858-1 V1.2.1

Electromagnetic compatibility and Radio spectrum Matters (ERM) — Road Transport and Traffic Telematics (RTTT); Short range radar equipment operating in the 24,05 GHz to 24,25 GHz frequency range for automotive application — Part 1: Technical characteristics and test methods

EN 302 858-2 V1.2.1

Electromagnetic compatibility and Radio spectrum Matters (ERM) — Road Transport and Traffic Telematics (RTTT) — Short range radar equipment operating in the 24,05 GHz to 24,25 GHz frequency range for automotive application — Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 305 550-1 V1.1.1

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 1: Technical characteristics and test methods

EN 305 550-2 V1.1.1

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

## 33.100.01 Elektromagnetska spojivost općenito

### Medunarodna normizacija (IEC)

IEC/TR 61000-3-15:2011

Electromagnetic compatibility (EMC) — Part 3-15: Limits — Assessment of low frequency electromagnetic immunity and emission requirements for dispersed generation systems in LV network

## Europska normizacija

EN 60118-13:2011

Electroacoustics – Hearing aids – Part 13:  
Electromagnetic compatibility (EMC)  
(IEC 60118-13:2011)

### 33.120.20 Žice i simetrični kabe

#### Međunarodna normizacija (IEC)

IEC 60227-7/am2:2011

Amendment 2 – Polyvinyl chloride insulated cables  
of rated voltages up to and including 450/750 V –  
Part 7: Flexible cables screened and unscreened with  
two or more conductors

### 33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito

#### Europska normizacija

EN 62516-2:2011

Terrestrial digital multimedia broadcasting (T-DMB)  
receivers – Part 2: Interactive data services using  
BIFS (IEC 62516-2:2011)

### 33.160.25 Televizijski prijarnici

#### Europska normizacija

EN 62216:2011

Digital terrestrial television receivers for the DVB-T  
system (IEC 62216:2009)

### 33.180.10 Svjetlovodna vlakna i kabe

#### Međunarodna normizacija (IEC)

IEC 60794-2-10:2011

Optical fibre cables – Part 2-10: Indoor optical fibre  
cables – Family specification for simplex and duplex  
cables

IEC 60794-1-1:2011

Optical fibre cables – Part 1-1: Generic specification  
– General

### 33.180.20 Svjetlovodni vezni uređaji

#### Europska normizacija

EN 61300-3-46:2011

Fibre optic interconnecting devices and passive  
components – Basic test and measurement  
procedures – Part 3-46: Measurement – Bore diameter  
for guide pin in MT ferrules (IEC 61300-3-46:2011)

### 33.180.30 Optička pojačala

#### Međunarodna normizacija (IEC)

IEC 61290-4-1:2011

Optical amplifiers – Test methods – Part 4-1: Gain  
transient parameters – Two-wavelength method

## 35.040 Skupovi znakova i informacijsko kodiranje

### Međunarodna normizacija (ISO)

ISO/IEC 14651:2011

Information technology – International string ordering  
and comparison – Method for comparing character  
strings and description of the common template  
tailorable ordering

ISO/IEC 23000-12:2010/Amd 1:2011

Information technology – Multimedia application  
format (MPEG-A) – Part 12: Interactive music  
application format – Amendment 1: Conformance  
and reference software

ISO/IEC 23002-4:2010/Amd 1:2011

Information technology – MPEG video technologies –  
Part 4: Video tool library – Amendment 1: Video tool  
library conformance and reference software

ISO/IEC 23005-2:2011

Information technology – Media context and control  
– Part 2: Control information

ISO/IEC 23005-3:2011

Information technology – Media context and control  
– Part 3: Sensory information

ISO/IEC 23005-4:2011

Information technology – Media context and control  
– Part 4: Virtual world object characteristics

ISO/IEC 23005-5:2011

Information technology – Media context and control  
– Part 5: Data formats for interaction devices

ISO/IEC 24800-5:2011

Information technology – JPSearch – Part 5: Data  
interchange format between image repositories

ISO/IEC 27035:2011

Information technology – Security techniques –  
Information security incident management

ISO/IEC 24753:2011

Information technology – Radio frequency identification  
(RFID) for item management – Application protocol:  
encoding and processing rules for sensors and  
batteries

## 35.060 Jezici koji se upotrebljavaju u informatičkoj tehnici

### Međunarodna normizacija (ISO)

ISO/IEC 29500-1:2011

Information technology – Document description  
and processing languages – Office Open XML  
File Formats – Part 1: Fundamentals and Markup  
Language Reference

ISO/IEC 29500-2:2011

Information technology – Document description and  
processing languages – Office Open XML File Formats  
– Part 2: Open Packaging Conventions

ISO/IEC 29500-3:2011

Information technology – Document description and  
processing languages – Office Open XML File Formats  
– Part 3: Markup Compatibility and Extensibility

ISO/IEC 29500-4:2011

Information technology – Document description and  
processing languages – Office Open XML File Formats  
– Part 4: Transitional Migration Features

ISO/IEC 14882:2011

Information technology – Programming languages  
– C++

ISO/IEC 15897:2011

Information technology – User interfaces – Procedures  
for the registration of cultural elements

## 35.080 Razvoj računalne podrške i dokumentacijski sustav

### Međunarodna normizacija (ISO)

- ISO/IEC TS 15504-9:2011  
Information technology – Process assessment – Part 9: Target process profiles
- ISO/IEC 14143-2:2011  
Information technology – Software measurement – Functional size measurement – Part 2: Conformity evaluation of software size measurement methods to ISO/IEC 14143-1
- ISO/IEC TR 24748-2:2011  
Systems and software engineering – Life cycle management – Part 2: Guide to the application of ISO/IEC 15288 (System life cycle processes)
- ISO/IEC TR 24748-3:2011  
Systems and software engineering – Life cycle management – Part 3: Guide to the application of ISO/IEC 12207 (Software life cycle processes)
- ISO/IEC TR 29110-1:2011  
Software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 1: Overview
- ISO/IEC TR 29110-3:2011  
Software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 3: Assessment guide
- ISO/IEC 29168-2:2011  
Information technology – Open systems interconnection – Part 2: Procedures for the object identifier resolution system operational agency
- ISO/IEC 40210:2011  
Information technology – W3C SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)
- ISO/IEC 40220:2011  
Information technology – W3C SOAP Version 1.2 Part 2: Adjuncts (Second Edition)
- ISO/IEC 40230:2011  
Information technology – W3C SOAP Message Transmission Optimization Mechanism
- ISO/IEC 40240:2011  
Information technology – W3C Web Services Addressing 1.0 – Core
- ISO/IEC 40250:2011  
Information technology – W3C Web Services Addressing 1.0 – SOAP Binding
- ISO/IEC 40260:2011  
Information technology – W3C Web Services Addressing 1.0 – Metadata
- ISO/IEC 40270:2011  
Information technology – W3C Web Services Policy 1.5 – Framework
- ISO/IEC 40280:2011  
Information technology – W3C Web Services Policy 1.5 – Attachment

## 35.100.01 Međupovezivanje otvorenih sustava općenito

### Međunarodna normizacija (ISO)

- ISO/IEC 29168-1:2011  
Information technology – Open systems interconnection – Part 1: Object identifier resolution system

## 35.100.30 Mrežni sloj

### Međunarodna normizacija (ISO)

- ISO/IEC 18052:2011  
Information technology – Telecommunications and information exchange between systems – Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III

## 35.110 Umreživanje

### Međunarodna normizacija (ISO)

- ISO/IEC TR 16167:2011  
Information technology – Telecommunications and information exchange between systems – Next Generation Corporate Networks (NGCN) – Emergency calls
- ISO/IEC 16317:20  
Information technology – Telecommunications and information exchange between systems – proxZzy for sleeping hosts
- ISO/IEC TR 26927:2011  
Information technology – Telecommunications and information exchange between systems – Corporate telecommunication networks – Mobility for enterprise communications

## 35.200 Sučelna i vezna oprema

### Međunarodna normizacija (ISO)

- ISO/IEC 29341-1:2011  
Information technology – UPnP Device Architecture – Part 1: UPnP Device Architecture Version
- ISO/IEC 29341-1-1:2011  
Information technology – UPnP Device Architecture – Part 1-1: UPnP Device Architecture Version 1.1
- ISO/IEC 29341-3-1:2011  
Information technology – UPnP Device Architecture – Part 3-1: Audio Video Device Control Protocol – Audio Video Architecture
- ISO/IEC 29341-4-2:2011  
Information technology – UPnP Device Architecture – Part 4-2: Audio Video Device Control Protocol – Level 2 – Media Renderer Device
- ISO/IEC 29341-4-4:2011  
Information technology – UPnP Device Architecture – Part 4-4: Audio Video Device Control Protocol – Level 2 – Audio Video Data Structures
- ISO/IEC 29341-4-10:2011  
Information technology – UPnP Device Architecture – Part 4-10: Audio Video Device Control Protocol – Level 2 – Audio Video Transport Service
- ISO/IEC 29341-4-11:2011  
Information technology – UPnP Device Architecture – Part 4-11: Audio Video Device Control Protocol – Level 2 – Connection Manager Service
- ISO/IEC 29341-4-13:2011  
Information technology – UPnP Device Architecture – Part 4-13: Audio Video Device Control Protocol – Level 2 – Rendering Control Service
- ISO/IEC 29341-4-14:2011  
Information technology – UPnP Device Architecture – Part 4-14: Audio Video Device Control Protocol – Level 2 – Scheduled Recording Service
- ISO/IEC 29341-14-3:2011  
Information technology – UPnP Device Architecture – Part 14-3: Audio Video Device Control Protocol – Level 3 – Media Server Device

ISO/IEC 29341-14-12:2011  
Information technology – UPnP Device Architecture – Part 14-12: Audio Video Device Control Protocol – Level 3 – Audio Video Content Directory Service

ISO/IEC 29341-15-10:2011  
Information technology – UPnP Device Architecture – Part 15-10: Content Synchronization Device Control Protocol – Content Synchronization Service

ISO/IEC 29341-16-1:2011  
Information technology – UPnP Device Architecture – Part 16-1: Low Power Device Control Protocol – Low Power Architecture

ISO/IEC 29341-16-10:2011  
Information technology – UPnP Device Architecture – Part 16-10: Low Power Device Control Protocol – Low Power Proxy Service

ISO/IEC 29341-16-11:2011  
Information technology – UPnP Device Architecture – Part 16-11: Low Power Device Control Protocol – Low Power Service

ISO/IEC 29341-17-1:2011  
Information technology – UPnP Device Architecture – Part 17-1: Quality of Service Device Control Protocol – Level 3 – Quality of Service Architecture

ISO/IEC 29341-17-10:2011  
Information technology – UPnP Device Architecture – Part 17-10: Quality of Service Device Control Protocol – Level 3 – Quality of Service Device Service

ISO/IEC 29341-17-11:2011  
Information technology – UPnP Device Architecture – Part 17-11: Quality of Service Device Control Protocol – Level 3 – Quality of Service Manager Service

ISO/IEC 29341-17-12:2011  
Information technology – UPnP Device Architecture – Part 17-12: Quality of Service Device Control Protocol – Level 3 – Quality of Service Policy Holder Service

ISO/IEC 29341-17-13:2011  
Information technology – UPnP Device Architecture – Part 17-13: Quality of Service Device Control Protocol – Level 3 – Quality of Service Device Service – Underlying Technology Interfaces

ISO/IEC 29341-18-1:2011  
Information technology – UPnP Device Architecture – Part 18-1: Remote Access Device Control Protocol – Remote Access Architecture

ISO/IEC 29341-18-2:2011  
Information technology – UPnP Device Architecture – Part 18-2: Remote Access Device Control Protocol – Remote Access Client Device

ISO/IEC 29341-18-3:2011  
Information technology – UPnP Device Architecture – Part 18-3: Remote Access Device Control Protocol – Remote Access Server Device

ISO/IEC 29341-18-4:2011  
Information technology – UPnP Device Architecture – Part 18-4: Remote Access Device Control Protocol – Remote Access Discovery Agent Device

ISO/IEC 29341-18-10:2011  
Information technology – UPnP Device Architecture – Part 18-10: Remote Access Device Control Protocol – Remote Access Inbound Connection Configuration Service

ISO/IEC 29341-18-11:2011  
Information technology – UPnP Device Architecture – Part 18-11: Remote Access Device Control Protocol – Remote Access Discovery Agent Service

ISO/IEC 29341-18-12:2011  
Information technology – UPnP Device Architecture – Part 18-12: Remote Access Device Control Protocol – Remote Access Discovery Agent Synchronization Service

ISO/IEC 29341-18-13:2011  
Information technology – UPnP Device Architecture – Part 18-13: Remote Access Device Control Protocol – Remote Access Transport Agent

ISO/IEC 29341-19-1:2011  
Information technology – UPnP Device Architecture – Part 19-1: Solar Protection Blind Device Control Protocol – Solar Protection Blind Device

### **35.240.30 Primjene IT-a u obavješćivanju, dokumentaciji i izdavaštvu**

#### **Međunarodna normizacija (ISO)**

ISO/IEC 24754-1:2008/Cor 1:2011  
Information technology – Document description and processing languages – Minimum requirements for specifying document rendering systems – Part 1: Feature specifications for document rendering systems

ISO/IEC 29500-1:2011  
Information technology – Document description and processing languages – Office Open XML File Formats – Part 1: Fundamentals and Markup Language Reference

ISO/IEC 29500-2:2011  
Information technology – Document description and processing languages – Office Open XML File Formats – Part 2: Open Packaging Conventions

ISO/IEC 29500-3:2011  
Information technology – Document description and processing languages – Office Open XML File Formats – Part 3: Markup Compatibility and Extensibility

ISO/IEC 29500-4:2011  
Information technology – Document description and processing languages – Office Open XML File Formats – Part 4: Transitional Migration Features

ISO 15511:2011  
Information and documentation – International standard identifier for libraries and related organizations (ISIL)

ISO 15930-8:2010/Cor 1:2011  
Graphic technology – Prepress digital data exchange using PDF – Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X-5)

#### **Europska normizacija**

EN 62605:2011  
Multimedia systems and equipment – Multimedia e-publishing and e-books – Interchange format for e-dictionaries (IEC 62605:2011)

### **35.240.60 Primjene IT-a u prijevozu i trgovini**

#### **Europska normizacija**

CEN/TR 16219:2011  
Electronic Fee Collection – Value added services based on EFC on-board equipment

EN 302 931 V1.1.1  
Intelligent Transport Systems (ITS) – Vehicular Communications – Geographical Area Definition

EN 16062:2011  
Intelligent transport systems – eSafety – eCall high level application requirements (HLAP)

CWA 16356-1:2011  
Guide for a European CORE INVOICE data model with UN/CEFACT CII Implementation Guideline – Part 1: Introduction



CWA 16356-2:2011  
Guide for a European CORE INVOICE data model with UN/CEFACT CII Implementation Guideline – Part 2: European CORE INVOICE data model

CWA 16356-3:2011  
Guide for a European CORE INVOICE data model with UN/CEFACT CII Implementation Guideline – Part 3: European CORE INVOICE syntax mapping

### 35.240.70 Primjene IT-a u znanosti

#### Europska normizacija

CEN/TR 15449:2011  
Geographic information – Standards, specifications, technical reports and guidelines, required to implement Spatial Data Infrastructures

### 35.240.99 Primjene IT-a u drugim područjima

#### Međunarodna normizacija (ISO)

ISO/IEC 15897:2011  
Information technology – User interfaces – Procedures for the registration of cultural elements

#### Međunarodna normizacija (IEC)

IEC 61970-301:2011  
Energy management system application program interface (EMS-API) – Part 301: Common information model (CIM) base

### 37.020 Optička oprema

#### Međunarodna normizacija (ISO)

ISO 9344:2011  
Microscopes – Graticules for eyepieces

ISO 14490-8:2011  
Optics and optical instruments – Test methods for telescopic systems – Part 8: Test methods for night-vision devices

### 37.040.25 Radiografski filmovi

#### Međunarodna normizacija (ISO)

ISO 3665:2011  
Photography – Intra-oral dental radiographic film and film packets – Manufacturer specifications

### 37.100.10 Oprema za umnožavanje

#### Međunarodna normizacija (ISO)

ISO/IEC 29102:2011  
Information technology – Office equipment – Method for the determination of ink cartridge photo yield for colour printing with inkjet printers and multi-function devices that contain inkjet printer components

### 37.100.99 Druge norme koje se odnose na grafičku tehniku

#### Međunarodna normizacija (ISO)

ISO 15930-8:2010/Cor 1:2011  
Graphic technology – Prepress digital data exchange using PDF – Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X-5)

### 43.020 Cestovna vozila općenito

#### Međunarodna normizacija (ISO)

ISO 11096:2011  
Road vehicles – Pedestrian protection – Impact test method for pedestrian thigh, leg and knee

### 43.040.60 Oplate i sastavnice oplate

#### Europska normizacija

EN 50408:2008/A1:2011  
Household and similar electrical appliances – Safety – Particular requirements for cab heaters for vehicles

### 43.080.20 Autobusi

#### Međunarodna normizacija (ISO)

ISO 16121-2:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 2: Visibility

ISO 16121-3:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 3: Information devices and controls

ISO 16121-4:2011  
Road vehicles – Ergonomic requirements for the driver's workplace in line-service buses – Part 4: Cabin environment

### 43.120 Električna cestovna vozila

#### Međunarodna normizacija (ISO)

ISO 12405-1:2011  
Electrically propelled road vehicles – Test specification for lithium-ion traction battery packs and systems – Part 1: High-power applications

#### Europska normizacija

EN 61851-1:2011  
Electric vehicle conductive charging system – Part 1: General requirements (IEC 61851-1:2010)

EN 62660-1:2011  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing (IEC 62660-1:2010)

EN 62660-2:2011  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing (IEC 62660-2:2010)

### 43.150 Bicikli

#### Europska normizacija

EN 15918:2011  
Cycles – Cycle trailer – Safety requirements and test methods

### 43.160 Vozila za posebne namjene

#### Europska normizacija

EN 1501-1:2011  
Refuse collection vehicles – General requirements and safety requirements – Part 1: Rear loaded refuse collection vehicles

EN 1501-5:2011

Refuse collection vehicles – General requirements and safety requirements – Part 5: Lifting devices for refuse collection vehicles

#### 47.020.50 Palubna oprema i instalacije

##### Međunarodna normizacija (ISO)

ISO 13122:2011

Ships and marine technology – Launching appliances for davit-launched liferafts

#### 47.020.60 Električna oprema brodova i pomorskih konstrukcija

##### Međunarodna normizacija (IEC)

IEC 60092-353:2011

Electrical installations in ships – Part 353: Power cables for rated voltages 1 kV and 3 kV

#### 47.020.70 Oprema za navigaciju i upravljanje

##### Europska normizacija

EN 61162-450:2011

Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection (IEC 61162-450:2011)

#### 47.020.99 Druge norme koje se odnose na brodogradnju i pomorske konstrukcije

##### Međunarodna normizacija (ISO)

ISO 21070:2011

Ships and marine technology – Marine environment protection – Management and handling of shipboard garbage

ISO 14409:2011

Ships and marine technology – Ship launching air bags

#### 47.080 Mali plovni objekti

##### Međunarodna normizacija (ISO)

ISO 11591:2011

Small craft, engine-driven – Field of vision from helm position

##### Europska normizacija

EN ISO 11591:2011

Small craft, engine-driven – Field of vision from helm position (ISO 11591:2011)

#### 49.080 Zrakoplovni fluidički sustavi i sastavnice

##### Međunarodna normizacija (ISO)

ISO 22072:2011

Aerospace – Electrohydrostatic actuator (EHA) – Characteristics to be defined in procurement specifications

#### 49.140 Svemirski sustavi i radnje

##### Međunarodna normizacija (ISO)

ISO 10794:2011

Space systems – Programme management – Material, mechanical parts and processes

ISO 10795:2011

Space systems – Programme management and quality – Vocabulary

ISO 14620:2011

Space systems – Safety requirements – Part 2: Launch site operations

ISO 10789:2011

Space systems – Programme management – Information and documentation management

ISO 14300-2:2011

Space systems – Programme management – Part 2: Product assurance

#### 53.020 Oprema za dizanje

##### Međunarodna normizacija (ISO)

ISO 2328:2011

Fork-lift trucks – Hook-on type fork arms and fork arm carriages – Mounting dimensions

ISO 3691-1:2011

Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks

##### Europska normizacija

EN ISO 3691-1:2011

Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011)

#### 59.060.10 Prirodna vlakna

##### Europska normizacija

CWA 16336:2011

Superfine woven wool fabric labelling – Requirements for Super S code definition

#### 59.080.01 Tekstili općenito

##### Međunarodna normizacija (ISO)

ISO 14184-1:2011

Textiles – Determination of formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method)

ISO 14184-2:2011

Textiles – Determination of formaldehyde – Part 2: Released formaldehyde (vapour absorption method)

##### Europska normizacija

EN ISO 14184-1:2011

Textiles – Determination of formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1:2011)

EN ISO 14184-2:2011

Textiles – Determination of formaldehyde – Part 2: Released formaldehyde (vapour absorption method) (ISO 14184-2:2011)

## 59.080.30 Tekstilni proizvodi

### Međunarodna normizacija (ISO)

ISO/TR 24697:2011  
Textiles and textile products – Guidelines on the determination of the precision of a standard test method by interlaboratory trials

## 59.080.40 Premazane tkanine

### Međunarodna normizacija (ISO)

ISO 36:2011  
Rubber, vulcanized or thermoplastic – Determination of adhesion to textile fabrics

## 59.100.10 Tekstilno staklo

### Međunarodna normizacija (ISO)

ISO 3598:2011  
Textile glass – Yarns – Basis for a specification

### Međunarodna normizacija (IEC)

IEC/PAS 61249-6-3:2011  
Specification for finished fabric woven from "E" glass for printed boards

## 59.120.30 Tkalački stanovi. Automatski tkalački stanovi

### Međunarodna normizacija (ISO)

ISO 13435:2011  
Textile machinery and accessories – Bars for drop wires for electrical warp stop motions

## 59.140.30 Koža i krzno

### Europska normizacija

EN ISO 17071:2011  
Leather – Physical and mechanical tests – Determination of fogging characteristics (ISO 17071:2006)

EN ISO 17074:2011  
Leather – Physical and mechanical tests – Determination of resistance to horizontal spread of flame (ISO 17074:2006)

EN ISO 17230:2011  
Leather – Physical and mechanical tests – Determination of water penetration pressure (ISO 17230:2006)

EN ISO 17231:2011  
Leather – Physical and mechanical tests – Determination of water repellency of garment leather (ISO 17231:2006)

## 61.060 Obuća

### Međunarodna normizacija (ISO)

ISO 20877:2011  
Footwear – Test methods for whole shoe – Thermal insulation

### Europska normizacija

EN ISO 20877:2011  
Footwear – Test methods for whole shoe – Thermal insulation (ISO 20877:2011)

## 65.040.99 Druge norme koje se odnose na gospodarske zgrade i instalacije

### Međunarodna normizacija (ISO)

ISO 24631-6:2011  
Radiofrequency identification of animals – Part 6: Representation of animal identification information (visual display/data transfer)

## 65.060.35 Oprema za navodnjavanje i isušivanje

### Međunarodna normizacija (ISO)

ISO 8224-1:2003/AMD 1:2011  
Traveller irrigation machines – Part 1: Operational characteristics and laboratory and field test methods; Amendment 1

### Europska normizacija

EN ISO 8224-1:2003/A1:2011  
Traveller irrigation machines – Part 1: Operational characteristics and laboratory and field test methods – Amendment 1 (ISO 8224-1:2003/AMD 1:2011)

## 65.060.40 Oprema za njegu biljaka

### Međunarodna normizacija (ISO)

ISO 12809:2011  
Crop protection equipment – Reciprocating positive displacement pumps and centrifugal pumps – Test methods

## 65.060.70 Oprema za vrtlarstvo

### Europska normizacija

EN 836:1997+A4:2011  
Garden equipment – Powered lawnmowers – Safety

## 67.120.30 Riba i riblji proizvodi

### Međunarodna normizacija (ISO)

ISO 12877:2011  
Traceability of finfish products – Specification on the information to be recorded in farmed finfish distribution chains

ISO 12875:2011  
Traceability of finfish products – Specification on the information to be recorded in captured finfish distribution chains

## 67.200.10 Životinjske i biljne masti i ulja

### Međunarodna normizacija (ISO)

ISO 17932:2011  
Palm oil – Determination of the deterioration of bleachability index (DOBI) and carotene content

### Europska normizacija

EN ISO 9936:2006/A1:2011  
Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography – Amendment 1: Updating of reagents and confirmation of statistical data validity (ISO 9936:2006/Amd 1:2011)

EN ISO 15753:2006/A1:2011  
Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons – Amendment 1: Exclusion of olive pomace oil from the scope (ISO 15753:2006/Amd 1:2011)

EN ISO 17932:2011  
Palm oil – Determination of the deterioration of bleaching index (DOBI) and carotene content (ISO 17932:2011)

## 67.220.10 Mirodije i začini

### Međunarodna normizacija (ISO)

ISO 3632-1:2011  
Spices – Saffron (*Crocus sativus* L.) – Part 1: Specification

## 71.040.40 Kemijska analiza

### Međunarodna normizacija (ISO)

ISO/TR 14187:2011  
Surface chemical analysis – Characterization of nanostructured materials

ISO 14701:2011  
Surface chemical analysis – X-ray photoelectron spectroscopy – Measurement of silicon oxide thickness

## 73.100.20 Oprema za prozračivanje, klimatizaciju i osvjetljavanje

### Europska normizacija

EN 60079-35-1:2011/AC:2011  
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

## 75.080 Naftni proizvodi općenito

### Međunarodna normizacija (ISO)

ISO 3771:2011  
Petroleum products – Determination of base number – Perchloric acid potentiometric titration method

## 75.180.10 Oprema za iskorištavanje i vađenje

### Međunarodna normizacija (ISO)

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

ISO 15546:2011  
Petroleum and natural gas industries – Aluminium alloy drill pipe

### Europska normizacija

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

EN ISO 15546:2011  
Petroleum and natural gas industries – Aluminium alloy drill pipe (ISO 15546:2011)

## 75.180.30 Oprema za obujamska mjerenja i mjerenja

### Međunarodna normizacija (ISO)

ISO 18132-1:2011  
Refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels – General requirements for automatic tank gauges – Part 1: Automatic tank gauges for liquefied natural gas on board marine carriers and floating storage

ISO 18132-3:2011  
Refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels – General requirements for automatic tank gauges – Part 3: Automatic tank gauges for liquefied petroleum and chemical gases on board marine carriers and floating storage

## 75.200 Naftni proizvodi i oprema za rukovanje prirodnim plinom

### Međunarodna normizacija (ISO)

ISO 11299-1:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General

ISO 11299-3:2011  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes

ISO 12490:2011  
Petroleum and natural gas industries – Mechanical integrity and sizing of actuators and mounting kits for pipeline valves

## 77.040.10 Mehaničko ispitivanje kovina

### Međunarodna normizacija (ISO)

ISO 12111:2011  
Metallic materials – Fatigue testing – Strain-controlled thermomechanical fatigue testing method

## 77.120.20 Magnezij i magnezijske slitine

### Međunarodna normizacija (ISO)

ISO 11707:2011  
Magnesium and its alloys – Determination of lead and cadmium

## 77.120.40 Nikal, krom i njihove slitine

### Međunarodna normizacija (ISO)

ISO 22033:2011  
Nickel alloys – Determination of niobium – Inductively coupled plasma/atomic emission spectrometric method

## 77.140.01 Željezni i čelični proizvodi općenito

### Međunarodna normizacija (ISO)

ISO 630-1:2011  
Structural steels – Part 1: General technical delivery conditions for hot-rolled products

ISO 630-2:2011  
Structural steels – Part 2: Technical delivery conditions for structural steels for general purposes

## 77.140.75 Čelične cijevi

### Međunarodna normizacija (ISO)

- ISO 10799-1:2011  
Cold-formed welded structural hollow sections of non-alloy and fine grain steels – Part 1: Technical delivery conditions
- ISO 10799-2:2011  
Cold-formed welded structural hollow sections of non-alloy and fine grain steels – Part 2: Dimensions and sectional properties
- ISO 12633-1:2011  
Hot-finished structural hollow sections of non-alloy and fine grain steels – Part 1: Technical delivery conditions
- ISO 12633-2:2011  
Hot-finished structural hollow sections of non-alloy and fine grain steels – Part 2: Dimensions and sectional properties

## 77.150.10 Aluminijski proizvodi

### Međunarodna normizacija (ISO)

- ISO 6361-1:2011  
Wrought aluminium and aluminium alloys – Sheets, strips and plates – Part 1: Technical conditions for inspection and delivery
- ISO 6361-2:2011  
Wrought aluminium and aluminium alloys – Sheets, strips and plates – Part 2: Mechanical properties
- ISO 6361-3:2011  
Wrought aluminium and aluminium alloys – Sheets, strips and plates – Part 3: Strips: Tolerances on shape and dimension
- ISO 6361-4:2011  
Wrought aluminium and aluminium alloys – Sheets, strips and plates – Part 4: Sheets and plates: Tolerances on shape and dimensions
- ISO 6361-5:2011  
Wrought aluminium and aluminium alloys – Sheets, strips and plates – Part 5: Chemical composition
- ISO 15546:2011  
Petroleum and natural gas industries – Aluminium alloy drill pipe

### Europska normizacija

- EN ISO 15546:2011  
Petroleum and natural gas industries – Aluminium alloy drill pipe (ISO 15546:2011)

## 79.040 Drvo, trupci i piljena građa

### Međunarodna normizacija (ISO)

- ISO 13059:2011  
Round timber – Requirements for the measurement of dimensions and methods for the determination of volume

## 81.040.20 Građevno staklo

### Međunarodna normizacija (ISO)

- ISO 12543-1:2011  
Glass in building – Laminated glass and laminated safety glass – Part 1: Definitions and description of component parts
- ISO 12543-2:2011  
Glass in building – Laminated glass and laminated safety glass – Part 2: Laminated safety glass

- ISO 12543-3:2011  
Glass in building – Laminated glass and laminated safety glass – Part 3: Laminated glass
- ISO 12543-4:2011  
Glass in building – Laminated glass and laminated safety glass – Part 4: Test methods for durability
- ISO 12543-5:2011  
Glass in building – Laminated glass and laminated safety glass – Part 5: Dimensions and edge finishing
- ISO 12543-6:2011  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance

### Europska normizacija

- EN ISO 12543-1:2011  
Glass in building – Laminated glass and laminated safety glass – Part 1: Definitions and description of component parts (ISO 12543-1:2011)
- EN ISO 12543-2:2011  
Glass in building – Laminated glass and laminated safety glass – Part 2: Laminated safety glass (ISO 12543-2:2011)
- EN ISO 12543-3:2011  
Glass in building – Laminated glass and laminated safety glass – Part 3: Laminated glass (ISO 12543-3:2011)
- EN ISO 12543-4:2011  
Glass in building – Laminated glass and laminated safety glass – Part 4: Test methods for durability (ISO 12543-4:2011)
- EN ISO 12543-5:2011  
Glass in building – Laminated glass and laminated safety glass – Part 5: Dimensions and edge finishing (ISO 12543-5:2011)
- EN ISO 12543-6:2011  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance (ISO 12543-6:2011)

## 81.060.30 Keramika

### Međunarodna normizacija (ISO)

- ISO 28703:2011  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for thermal-shock resistance of porous ceramics
- ISO 28704:2011  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for cyclic bending fatigue of porous ceramics at room temperature

## 83.040.20 Sastojci gume

### Međunarodna normizacija (ISO)

- ISO 5794-3:2011  
Rubber compounding ingredients – Silica, precipitated, hydrated – Part 3: Evaluation procedures in a blend of solution styrene-butadiene rubber (S-SBR) and butadiene rubber (BR)

## 83.060 Guma

### Međunarodna normizacija (ISO)

- ISO 1853:2011  
Conducting and dissipative rubbers, vulcanized or thermoplastic – Measurement of resistivity
- ISO 2303:2011  
Isoprene rubber (IR) – Non-oil-extended, solution-polymerized types – Evaluation procedures

- ISO 5603:2011  
Rubber, vulcanized – Determination of adhesion to wire cord
- ISO 36:2011  
Rubber, vulcanized or thermoplastic – Determination of adhesion to textile fabrics
- ISO 1817:2011  
Rubber, vulcanized or thermoplastic – Determination of the effect of liquids
- ISO 2878:2011  
Rubber, vulcanized or thermoplastic – Antistatic and conductive products – Determination of electrical resistance
- ISO 5600:2011  
Rubber – Determination of adhesion to rigid materials using conical shaped parts
- ISO 14309:2011  
Rubber, vulcanized or thermoplastic – Determination of volume and/or surface resistivity

### 83.080.01 Plastika općenito

#### Međunarodna normizacija (ISO)

- ISO 10640:2011  
Plastics – Methodology for assessing polymer photoageing by FTIR and UV/visible spectroscopy

### 83.080.10 Termostatična gradiva

#### Međunarodna normizacija (ISO)

- ISO 15063:2011  
Plastics – Polyols for use in the production of polyurethanes – Determination of hydroxyl number by NIR spectroscopy

### 83.120 Armirana plastika

#### Međunarodna normizacija (ISO)

- ISO 4901:2011  
Reinforced plastics based on unsaturated-polyester resins – Determination of the residual styrene monomer content, as well as the content of other volatile aromatic hydrocarbons, by gas chromatography

### 83.160.01 Gume za vozila općenito

#### Međunarodna normizacija (ISO)

- ISO 4223-1:2002/Amd 1:2011  
Definitions of some terms used in the tyre industry – Part 1: Pneumatic tyres

### 83.160.10 Gume za cestovna vozila

#### Međunarodna normizacija (ISO)

- ISO 15222:2011  
Truck and bus tyres – Method for measuring relative wet grip performance – Loaded new tyres

### 83.180 Adhezivi

#### Međunarodna normizacija (ISO)

- ISO 9311-2:2011  
Adhesives for thermoplastic piping systems – Part 2: Determination of shear strength

### Europska normizacija

- EN ISO 9311-2:2011  
Adhesives for thermoplastic piping systems – Part 2: Determination of shear strength (ISO 9311-2:2011)

### 85.040 Celuloza

#### Međunarodna normizacija (ISO)

- ISO 776:2011  
Pulps – Determination of acid-insoluble ash
- ISO 15320:2011  
Pulp, paper and board – Determination of pentachlorophenol in an aqueous extract

#### Europska normizacija

- EN ISO 15320:2011  
Pulp, paper and board – Determination of pentachlorophenol in an aqueous extract (ISO 15320:2011)

### 85.060 Papir i karton

#### Međunarodna normizacija (ISO)

- ISO 3781:2011  
Paper and board – Determination of tensile strength after immersion in water
- ISO 15320:2011  
Pulp, paper and board – Determination of pentachlorophenol in an aqueous extract
- ISO 11093-7:2011  
Paper and board – Testing of cores – Part 7: Determination of flexural modulus by the three-point method
- ISO 12192:2011  
Paper and board – Determination of compressive strength – Ring crush method

#### Europska normizacija

- EN ISO 12625-1:2011  
Tissue paper and tissue products – Part 1: General guidance on terms (ISO 12625-1:2011)
- EN ISO 15320:2011  
Pulp, paper and board – Determination of pentachlorophenol in an aqueous extract (ISO 15320:2011)

### 87.040 Boje i lakovi

#### Međunarodna normizacija (ISO)

- ISO 6272-1:2011  
Paints and varnishes – Rapid-deformation (impact resistance) tests – Part 1: Falling-weight test, large-area indenter
- ISO 6272-2:2011  
Paints and varnishes – Rapid-deformation (impact resistance) tests – Part 2: Falling-weight test, small-area indenter
- ISO 4628-6:2011  
Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 6: Assessment of degree of chalking by tape method

## **Europska normizacija**

EN ISO 6272-1:2011

Paints and varnishes — Rapid-deformation (impact resistance) tests — Part 1: Falling-weight test, large-area indenter (ISO 6272-1:2011)

EN ISO 6272-2:2011

Paints and varnishes — Rapid-deformation (impact resistance) tests — Part 2: Falling-weight test, small-area indenter (ISO 6272-2:2011)

EN ISO 4628-6:2011

Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 6: Assessment of degree of chalking by tape method (ISO 4628-6:2011)

## **87.100 Oprema za premazivanje bojom**

### **Europska normizacija**

EN 50348:2010/AC:2010

Stationary electrostatic application equipment for non-ignitable liquid coating material — Safety requirements

## **91.040.01 Zgrade općenito**

### **Međunarodna normizacija (ISO)**

IWA 9:2011

Framework for managing sustainable development in business districts

### **Europska normizacija**

EN 15331:2011

Criteria for design, management and control of maintenance services for buildings

## **91.080.40 Betonske konstrukcije**

### **Međunarodna normizacija (ISO)**

ISO/TR 16475:2011

Guidelines for the repair of water-leakage cracks in concrete structures

## **91.090 Vanjske konstrukcije**

### **Međunarodna normizacija (IEC)**

IEC 60335-2-95:2011

Household and similar electrical appliances — Safety — Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

## **91.100.01 Građevna gradiva općenito**

### **Europska normizacija**

CEN/TR 16220:2011

Construction products — Assessment of release of dangerous substances — Complement to sampling

## **91.100.10 Cement. Gips. Vapno. Žbuka**

### **Europska normizacija**

CEN/TR 16239:2011

Installation rules of fibrous (gypsum) plaster works

## **91.100.40 Proizvodi od vlaknima pojačanog cementa**

### **Međunarodna normizacija (ISO)**

ISO 10904:2011

Fibre-cement corrugated sheets and fittings for roofing and cladding

## **91.100.50 Veziva. Brtvena gradiva**

### **Europska normizacija**

EN 15814:2011

Polymer modified bituminous thick coatings for waterproofing — Definitions and requirements

## **91.120.40 Zaštita od groma**

### **Europska normizacija**

EN 62561-5:2011

Lightning protection system components (LPSC) — Part 5: Requirements for earth electrode inspection housings and earth electrode seals (IEC 62561-5:2011, modified)

## **91.140.30 Sustavi prozračivanja i klimatizacije**

### **Međunarodna normizacija (ISO)**

ISO 29464:2011

Cleaning equipment for air and other gases — Terminology

## **91.140.50 Sustavi opskrbe strujom**

### **Europska normizacija**

HD 60364-5-54:2011

Low-voltage electrical installations — Part 5-54: Selection and erection of electrical equipment — Earthing arrangements and protective conductors (IEC 60364-5-54:2011)

## **91.140.60 Sustavi opskrbe vodom**

### **Europska normizacija**

EN 13618:2011

Flexible hose assemblies in drinking water installations — Functional requirements and test methods

## **91.180 Unutrašnji završni radovi**

### **Europska normizacija**

CEN/TR 16239:2011

Installation rules of fibrous (gypsum) plaster works

EN 15102:2007+A1:2011

Decorative wall coverings — Roll and panel form

## **93.030 Vanjska kanalizacija**

### **Europska normizacija**

EN 12666-1:2005+A1:2011

Plastics piping systems for non-pressure underground drainage and sewerage — Polyethylene (PE) — Part 1: Specifications for pipes, fittings and the system

## 97.030 Kućanska električna oprema općenito

### Međunarodna normizacija (IEC)

IEC 60335-2-66/am2:2011  
Household and similar electrical appliances – Safety – Part 2-66: Particular requirements for water-bed heaters; Amendment 2

IEC 60335-2-81/am2:2011  
Household and similar electrical appliances – Safety – Part 2-81: Particular requirements for foot warmers and heating mats; Amendment 2

### Europska normizacija

EN 60335-1:2002/AC:2010  
Household and similar electrical appliances – Safety – Part 1: General requirements

EN 60335-1:2002/AC:2009  
Household and similar electrical appliances – Safety – Part 1: General requirements

## 97.040.10 Kućanski namještaj

### Međunarodna normizacija (IEC)

IEC 60335-2-16:2005/am2:2011  
Household and similar electrical appliances – Safety – Part 2-16: Particular requirements for food waste disposers; Amendment 2

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Međunarodna normizacija (IEC)

IEC 60704-2-10:2011  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-10: Particular requirements for electric cooking ranges, ovens, grills, microwave ovens and any combination of these

## 97.060 Praonički uređaji

### Međunarodna normizacija (IEC)

IEC 60335-2-44/am2:2011  
Amendment 2 – Household and similar electrical appliances – Safety – Part 2-44: Particular requirements for ironers

## 97.100.20 Plinski grijači

### Europska normizacija

EN 1196:2011  
Domestic and non-domestic gas-fired air heaters – Supplementary requirements for condensing air heaters

## 97.150 Netekstilni podni prekrivači

### Međunarodna normizacija (ISO)

ISO 24343-2:2011  
Resilient and laminate floor coverings – Determination of indentation and residual indentation – Part 2: Short-term residual indentation of resilient floor covering

ISO 24343-3:2011  
Resilient and laminate floor coverings – Determination of indentation and residual indentation – Part 3: Indentation of resilient semi-flexible/vinyl composition tiles

ISO 10581:2011  
Resilient floor coverings – Homogeneous poly(vinyl chloride) floor covering – Specification

## 97.200.50 Igračke

### Europska normizacija

EN 62115:2005/A2:2011  
Electric toys – Safety (IEC 62115:2003/A2:2010, modified)

## 97.220.20 Oprema za zimske športove

### Međunarodna normizacija (ISO)

ISO 7795:2011  
Cross-country skis – Ski-binding screws – Test methods