

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

7/2013 prosinac, 2013.

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, moli se da o tome neodložno obavijesti Hrvatski zavod za norme, kako bi se mogli otkloniti uočeni propusti.

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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- 4.1 Cjenik hrvatskih norma

# Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 80/2013) 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.

## 1.1 Hrvatske norme

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

HRN EN 12560-2:2013 en pr  
Prirubnice i njihovi spojevi – Dimenzije brtvi za prirubnice označene prema razredu – 2. dio: Spiralno namotane brtve za upotrebu s čeličnim prirubnicama (EN 12560-2:2013)  
Flanges and their joints – Dimensions of gaskets for Class-designated flanges – Part 2: Spiral wound gaskets for use with steel flanges (EN 12560-2:2013)

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

HRN ISO 6722-2:2013 en pr  
Cestovna vozila – Jednožilni kabeli za 60 V i 600 V – 2. dio: Dimenzije, metode ispitivanja i zahtjevi za kabele s aluminijskim vodičem (ISO 6722-2:2013)  
Road vehicles – 60 V and 600 V single-core cables – Part 2: Dimensions, test methods and requirements for aluminium conductor cables (ISO 6722-2:2013)

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

HRN EN 15779:2013 en pr  
Naftni proizvodi i derivati masti i ulja – Metilni esteri masnih kiselina (FAME) za dizelske motore – Određivanje višestruko nezasićenih ( $\geq 4$  dvostrukih veza) metilnih estera masnih kiselina (PUFA) plinskom kromatografijom (EN 15779:2009+A1:2013)  
Petroleum products and fat and oil derivatives – Fatty acid methyl esters (FAME) for diesel engines – Determination of polyunsaturated ( $\geq 4$  double bonds) fatty acid methyl esters (PUFA) by gas chromatography (EN 15779:2009+A1:2013)

HRN EN 16423:2013 en pr  
Ukapljeni naftni plinovi – Određivanje ostatka isparavanja – Metoda plinske kromatografije s kolonskim injektorom (EN 16423:2013)  
Liquefied petroleum gases – Determination of dissolved residue – Gas chromatographic method using liquid, on-column injection (EN 16423:2013)

HRI CEN/TR 16557:2013 en pr  
Goriva za vozila – Mješavine s visokim udjelom FAME u dizelskom gorivu (B11-B30) – Osnove za zahtijevane parametre, njihove granice i metode određivanja (CEN/TR 16557:2013)  
Automotive fuels – High FAME diesel fuel blends (B11-B30) – Background to the parameters required and their respective limits and determination (CEN/TR 16557:2013)

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

HRN EN 15587:2013 en pr  
Žitarice i proizvodi od žitarica – Određivanje količine stranih tvari u krušnoj pšenici (*Triticum aestivum* L.), tvrdoj pšenici (*T.durum* Desf.), raži (*Secale cereale* L.) i stočnom ječmu (*Hordeum vulgare* L.) (EN 15587:2008+A1:2013)  
Cereals and cereal products – Determination of Besatz in wheat (*Triticum aestivum* L.), durum wheat (*Triticum durum* Desf.), rye (*Secale cereale* L.) and feed barley (*Hordeum vulgare* L.) (EN 15587:2008+A1:2013)

HRN EN 16378:2013 en pr  
Žitarice – Određivanje količine nečistoća u kukuruzu (*Zea mays*, L.) i prosu (*Sorghum bicolor*, L.) (EN 16378:2013)  
Cereals – Determination of impurities content in maize (*Zea mays*, L.) and sorghum (*Sorghum bicolor*, L.) (EN 16378:2013)

HRN EN ISO 24333:2010/Ispr.1:2013 en pr  
Žitarice i proizvodi od žitarica – Uzorkovanje (EN ISO 24333:2009/AC:2010)  
Cereals and cereal products – Sampling (EN ISO 24333:2009/AC:2010)

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

HRN EN ISO 927:2010/Ispr.1:2013 en pr  
Mirodije i začini – Određivanje udjela stranih tvari i onečišćenja – Tehnički ispravak 1 (ISO 927:2009/Cor 1:2012; EN ISO 927:2009/AC:2012)  
Spices and condiments – Determination of extraneous matter and foreign matter content – Technical Corrigendum 1 (ISO 927:2009/Cor 1:2012; EN ISO 927:2009/AC:2012)

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

HRN EN ISO 1248:2008/Ispr.1:2013 en pr  
Pigmenti željeznog oksida – Specifikacije i metode ispitivanja (ISO 1248:2006+Cor 1:2007+Cor 2:2008; EN ISO 1248:2008/AC:2009)  
Iron oxide pigments – Specifications and methods of test (ISO 1248:2006+Cor 1:2007+Cor 2:2008; EN ISO 1248:2008/AC:2009)

HRN EN ISO 9038:2013 en pr  
Određivanje održavanja gorenja kapljevina (ISO 9038:2013; EN ISO 9038:2013)  
Determination of sustained combustibility of liquids (ISO 9038:2013; EN ISO 9038:2013)

HRN EN ISO 10890:2013 en pr  
Boje i lakovi – Modeliranje brzine otpuštanja biocida iz antivegetativnih boja izračunom bilance mase (ISO 10890:2010; EN ISO 10890:2010)  
Paints and varnishes – Modelling of biocide release rate from antifouling paints by mass-balance calculation (ISO 10890:2010; EN ISO 10890:2010)

HRN EN ISO 11997-2:2013 en pr  
Boje i lakovi – Određivanje otpornosti na cikličke uvjete korozije – 2. dio: Mokro (slana magla)/suho/vlažno/UV zračenje (ISO 11997-2:2013; EN ISO 11997-2:2013)  
Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 2: Wet (salt fog)/dry/humidity/UV light (ISO 11997-2:2013; EN ISO 11997-2:2013)

- HRN EN 13438:2013 en pr  
Boje i lakovi – Praškaste organske prevlake za u vatri pocinčane ili šerardizirane čelične proizvode namijenjene za konstrukcije (EN 13438:2013)  
Paints and varnishes – Powder organic coatings for hot dip galvanised or sherardised steel products for construction purposes (EN 13438:2013)
- HRN EN 13900-6:2013 en pr  
Pigmenti i punila – Metode disperzije i ocjenjivanja nesposobnosti disperzije u plastici – 6. dio: Određivanje ispitivanjem filma (EN 13900-6:2012)  
Pigments and extenders – Methods of dispersion and assessment of dispersability in plastics – Part 6: Determination by film test (EN 13900-6:2012)
- HRN EN ISO 20567-3:2013 en pr  
Boje i lakovi – Određivanje otpornosti premaza na udare kamenim krhotinama – 3. dio: Ispitivanje jednim udarcem sa slobodnim udarnim tijelom (ISO 20567-3:2012; EN ISO 20567-3:2012)  
Paints and varnishes – Determination of stone-chip resistance of coatings – Part 3: Single-impact test with a free-flying impact body (ISO 20567-3:2012; EN ISO 20567-3:2012)

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

- HRN EN ISO 6520-2:2013 en pr  
Zavarivanje i srodni procesi – Razredba geometrijskih nepravilnosti u metalnim materijalima – 2. dio: Zavarivanje pritiskom (ISO 6520-2:2013; EN ISO 6520-2:2013)  
Welding and allied processes – Classification of geometric imperfections in metallic materials – Part 2: Welding with pressure (ISO 6520-2:2013; EN ISO 6520-2:2013)

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

- HRN EN ISO 8655-1:2008/Ispr.1:2013 en pr  
Volumetrijski uređaji s klipom – 1. dio: Nazivlje, opći zahtjevi i preporuke za korisnika (ISO 8655-1:2002/Cor 1:2008; EN ISO 8655-1:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 1: Terminology, general requirements and user recommendations (ISO 8655-1:2002/Cor 1:2008; EN ISO 8655-1:2002/AC:2009)
- HRN EN ISO 8655-2:2008/Ispr.1:2013 en pr  
Volumetrijski uređaji s klipom – 2. dio: Klipne pipete (ISO 8655-2:2002/Cor 1:2008; EN ISO 8655-2:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 2: Piston pipettes (ISO 8655-2:2002/Cor 1:2008; EN ISO 8655-2:2002/AC:2009)
- HRN EN ISO 8655-3:2008/Ispr.1:2013 en pr  
Klipna volumetrijska aparatura – 3. dio: Klipne birete (ISO 8655-3:2002/Cor 1:2008; EN ISO 8655-3:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 3: Piston burettes (ISO 8655-3:2002/Cor 1:2008; EN ISO 8655-3:2002/AC:2009)
- HRN EN ISO 8655-4:2008/Ispr.1:2013 en pr  
Klipna volumetrijska aparatura – 4. dio: Razrjeđivači (ISO 8655-4:2002/Cor 1:2008; EN ISO 8655-4:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 4: Dilutors (ISO 8655-4:2002/Cor 1:2008; EN ISO 8655-4:2002/AC:2009)
- HRN EN ISO 8655-5:2008/Ispr.1:2013 en pr  
Klipna volumetrijska aparatura – 5. dio: Raspršivači (ISO 8655-5:2002/Cor 1:2008; EN ISO 8655-5:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 5: Dispensers (ISO 8655-5:2002/Cor 1:2008; EN ISO 8655-5:2002/AC:2009)

- HRN EN ISO 8655-6:2008/Ispr.1:2013 en pr  
Klipna volumetrijska aparatura – 6. dio: Gravimetrijske metode za određivanje mjerne pogreške (ISO 8655-6:2002/Cor 1:2008; EN ISO 8655-6:2002/AC:2009)  
Piston-operated volumetric apparatus – Part 6: Gravimetric methods for the determination of measurement error (ISO 8655-6:2002/Cor 1:2008; EN ISO 8655-6:2002/AC:2009)
- HRN EN ISO 8655-7:2008/Ispr.1:2013 en pr  
Klipna volumetrijska aparatura – 7. dio: Negravimetrijska metoda za ocjenu svojstava uređaja (ISO 8655-7:2005/Cor 1:2008; EN ISO 8655-7:2005/AC:2009)  
Piston-operated volumetric apparatus – Part 7: Non-gravimetric methods for the assessment of equipment performance (ISO 8655-7:2005/Cor 1:2008; EN ISO 8655-7:2005/AC:2009)
- HRN EN 14175-7:2013 en pr  
Digestori – 7. dio: Digestori za visoke temperature i kiselinsko opterećenje (EN 14175-7:2012)  
Fume cupboards – Part 7: Fume cupboards for high heat and acidic load (EN 14175-7:2012)
- HRN EN ISO 15212-1:2008/Ispr.1:2013 en pr  
Mjerila gustoće oscilirajućeg tipa – 1. dio: Laboratorijski instrumenti (ISO 15212-1:1998/Cor 1:2008; EN ISO 15212-1:1999/AC:2009)  
Oscillation-type density meters – Part 1: Laboratory instruments (ISO 15212-1:1998/Cor 1:2008; EN ISO 15212-1:1999/AC:2009)

#### **HZN/TO 54, Eterična ulja**

- HRN EN ISO 9235:2013 en pr  
Prirodne aromatične sirovine – Rječnik (ISO 9235:2013; EN ISO 9235:2013)  
Aromatic natural raw materials – Vocabulary (ISO 9235:2013; EN ISO 9235:2013)

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

- HRN EN 12390-13:2013 en pr  
Ispitivanje očvrslaga betona – 13. dio: Određivanje sekantnog modula elastičnosti pri tlaku (EN 12390-13:2013)  
Testing hardened concrete – Part 13: Determination of secant modulus of elasticity in compression (EN 12390-13:2013)

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

- HRS CEN/TS 16526:2013 en pr  
Sendvič ploče za namještaj (SWB-F) – Tvornički proizvodi – Definicije, razvrstavanje i metode ispitivanja za određivanje svojstava izvedbe (CEN/TS 16526:2013)  
Sandwich boards for furniture (SWB-F) – Factory made products – Definition, classification and test methods for determination of performance characteristics (CEN/TS 16526:2013)

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

- HRN ISO 5982:2013 en pr  
Mehaničke vibracije i udari – Raspon idealiziranih vrijednosti koje karakteriziraju biodinamički odziv ljudskog tijela u sjedećem položaju uslijed vertikalnih vibracija (ISO 5982:2001)  
Mechanical vibration and shock – Range of idealized values to characterize seated-body biodynamic response under vertical vibration (ISO 5982:2001)
- HRN ISO 13091-1:2013 en pr  
Mehaničke vibracije – Vibrotaktilne perceptivne granice za ocjenjivanje nervne disfunkcije – 1. dio: Metode mjerenja na vršcima prstiju (ISO 13091-1:2001+Amd 1:2010)

Mechanical vibration – Vibrotactile perception thresholds for the assessment of nerve dysfunction – Part 1: Methods of measurement at the fingertips (ISO 13091-1:2001+Amd 1:2010)

HRN ISO 13091-2:2013 en pr  
Mehaničke vibracije – Vibrotaktilne perceptivne granice za ocjenjivanje nervne disfunkcije – 2. dio: Analiza i interpretacija mjerenja na vršcima prstiju (ISO 13091-2:2003)  
Mechanical vibration – Vibrotactile perception thresholds for the assessment of nerve dysfunction – Part 2: Analysis and interpretation of measurements at the fingertips (ISO 13091-2:2003)

### **HZN/TO 120, Koža i obuća**

HRN EN ISO 17489:2013 en pr  
Koža – Kemijska ispitivanja – Određivanje sadržaja štavila u sintetskim sredstvima za štavljenje (ISO 17489:2013; EN ISO 17489:2013)  
Leather – Chemical tests – Determination of tan content in synthetic tanning agents (ISO 17489:2013; EN ISO 17489:2013)

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

HRN EN ISO 80601-2-12:2011/Ispr.1:2013 en pr  
Medicinski električni uređaji – Dio 2-12: Posebni zahtjevi za osnovnu sigurnost i nužne značajke opreme za pojačanu zaštitu ventilatora – Tehnički ispravak 1 (ISO 80601-2-12:2011/Cor 1:2011; EN ISO 80601-2-12:2011/AC:2011)  
Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators – Technical Corrigendum 1 (ISO 80601-2-12:2011/Cor 1:2011; EN ISO 80601-2-12:2011/AC:2011)

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

HRN EN 12579:2013 en pr  
Poboljšivači tla i supstrati – Uzorkovanje (EN 12579:2013)  
Soil improvers and growing media – Sampling (EN 12579:2013)

HRN EN 12580:2013 en pr  
Poboljšivači tla i supstrati – Određivanje količine (EN 12580:2013)  
Soil improvers and growing media – Determination of a quantity (EN 12580:2013)

HRN EN 12945:2008/Ispr.1:2013 en pr  
Tvari za kalcifikaciju – Određivanje neutralizacijske vrijednosti – Titrimetrijske metode (EN 12945:2008/AC:2009)  
Liming materials – Determination of neutralizing value – Titrimetric methods (EN 12945:2008/AC:2009)

HRN EN 13971:2013 en pr  
Karbonatne i silikatne tvari za kalcifikaciju – Određivanje reaktivnosti – Metoda potenciometrijske titracije klorovodičnom kiselinom (EN 13971:2012)  
Carbonate and silicate liming materials – Determination of reactivity – Potentiometric titration method with hydrochloric acid (EN 13971:2012)

HRN EN 15238:2008/Ispr.1:2013 en pr  
Poboljšivači tla i supstrati – Određivanje količine materijala s česticama većim od 60 mm (EN 15238:2006/AC:2009)  
Soil improvers and growing media – Determination of quantity for materials with particle size greater than 60 mm (EN 15238:2006/AC:2009)

HRN EN 16195:2013 en pr  
Gnojiva – Određivanje klorida u odsutnosti organskih materijala (EN 16195:2012)  
Fertilizers – Determination of chlorides in the absence of organic material (EN 16195:2012)

HRN EN 16196:2013 en pr  
Gnojiva – Manganometrijsko određivanje ekstrahiranog kalcija nakon taloženja u obliku oksalata (EN 16196:2012)  
Fertilizers – Manganometric determination of extracted calcium following precipitation in the form of oxalate (EN 16196:2012)

HRN EN 16197:2013 en pr  
Gnojiva – Određivanje magnezija atomskom apsorpcijskom spektrometrijom (EN 16197:2012)  
Fertilizers – Determination of magnesium by atomic absorption spectrometry (EN 16197:2012)

HRN EN 16198:2013 en pr  
Gnojiva – Određivanje magnezija kompleksometrijski (EN 16198:2012)  
Fertilizers – Determination of magnesium by complexometry (EN 16198:2012)

HRN EN 16199:2013 en pr  
Gnojiva – Određivanje ekstrahiranog natrija spektrometrijom emisije plamena (EN 16199:2012)  
Fertilizers – Determination of the sodium extracted by flame-emission spectrometry (EN 16199:2012)

HRN EN 16357:2013 en pr  
Karbonatne tvari za kalcifikaciju – Određivanje reaktivnosti – Metoda automatske titracije s limunskom kiselinom (EN 16357:2013)  
Carbonate liming materials – Determination of reactivity – Automatic titration method with citric acid (EN 16357:2013)

### **HZN/TO 136, Namještaj**

HRN EN 1728:2012/Ispr.1:2013 en pr  
Namještaj – Namještaj za sjedenje – Metode ispitivanja za određivanje čvrstoće i trajnosti (EN 1728:2012/AC:2013)  
Furniture – Seating – Test methods for the determination of strength and durability (EN 1728:2012/AC:2013)

HRN EN 16121:2013 en pr  
Namještaj za skladištenje koji nije za kućnu uporabu – Zahtjevi za sigurnost, čvrstoću, izdržljivost i stabilnost (EN 16121:2013)  
Non-domestic storage furniture – Requirements for safety, strength, durability and stability (EN 16121:2013)

HRN EN 16139:2013/Ispr.1:2013 en pr  
Namještaj – Čvrstoća, izdržljivost i sigurnost – Zahtjevi za namještaj za sjedenje koji nije za uporabu u kućanstvu (EN 16139:2013/AC:2013)  
Furniture – Strength, durability and safety – Requirements for non-domestic seating (EN 16139:2013/AC:2013)

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

HRN EN 12201-2:2013 en pr  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi (EN 12201-2:2011+A1:2013)  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes (EN 12201-2:2011+A1:2013)

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

HRN ISO 6107-2:2013 hr,en,fr,ru pp  
Kvaliteta vode – Terminološki rječnik – 2. dio (ISO 6107-2:2006)  
Water quality – Vocabulary – Part 2 (ISO 6107-2:2006)

HRN ISO 6107-7:2013 hr,en,fr,ru pr  
Kvaliteta vode – Terminološki rječnik – 7. dio  
(ISO 6107-7:2006)  
Water quality – Vocabulary – Part 7  
(ISO 6107-7:2006)

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

HRI CEN ISO/TR 9241-331:2013 en pr  
Ergonomija interakcije čovjek-sustav – Dio 331:  
Optička svojstva zaslona za 3D prikaz bez optičkih  
pomagala (ISO/TR 9241-331:2012;  
CEN ISO/TR 9241-331:2013)  
Ergonomics of human-system interaction – Part 331:  
Optical characteristics of autostereoscopic displays  
(ISO/TR 9241-331:2012;  
CEN ISO/TR 9241-331:2013)

HRI CEN ISO/TR 12296:2013 en pr  
Ergonomija – Ručno prenošenje ljudi u zdravstvenom  
sektoru (ISO/TR 12296:2012;  
CEN ISO/TR 12296:2013)  
Ergonomics – Manual handling of people in the  
healthcare sector (ISO/TR 12296:2012;  
CEN ISO/TR 12296:2013)

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

HRN EN ISO 10456:2008/Ispr.1:2013 en pr  
Građevni materijali i proizvodi – Svojstva s obzirom  
na toplinu i vlagu – Tablične projektne vrijednosti i  
postupci određivanja nazivnih i projektnih toplinskih  
vrijednosti – Tehnički ispravak 1  
(ISO 10456:2007/Cor 1:2009;  
EN ISO 10456:2007/AC:2009)  
Building materials and products – Hygrothermal  
properties – Tabulated design values and  
procedures for determining declared and design  
thermal values – Technical Corrigendum 1  
(ISO 10456:2007/Cor 1:2009;  
EN ISO 10456:2007/AC:2009)

HRN EN ISO 12570:2002/A1:2013 en pr  
Značajke građevnih materijala i proizvoda s obzirom  
na toplinu i vlagu – Određivanje vlage sušenjem na  
povišenoj temperaturi – Amandman 1  
(ISO 12570:2000/Amd 1:2013;  
EN ISO 12570:2000/A1:2013)  
Hygrothermal performance of building materials and  
products – Determination of moisture content by  
drying at elevated temperature – Amendment 1  
(ISO 12570:2000/Amd 1:2013;  
EN ISO 12570:2000/A1:2013)

HRN EN 13496:2013 en pr  
Toplinsko-izolacijski proizvodi za primjenu u  
zgradarstvu – Određivanje mehaničkih svojstava  
mrežice od staklenih vlakana kao ojačanja u  
povezanim sustavima za vanjsku toplinsku izolaciju  
sa žbukom (ETICS) (EN 13496:2013)  
Thermal insulation products for building applications  
– Determination of the mechanical properties of glass  
fibre meshes as reinforcement for External Thermal  
Insulation Composite Systems with renders (ETICS)  
(EN 13496:2013)

HRN EN 14063-2:2013 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Proizvodi  
od lakoagregatne ekspanzirane gline oblikovani na  
mjestu primjene – 2. dio: Specifikacija za ugrađene  
proizvode (EN 14063-2:2013)  
Thermal insulation products for buildings – In-situ  
formed expanded clay lightweight aggregate products  
– Part 2: Specification for the installed products  
(EN 14063-2:2013)

HRN EN 15101-2:2013 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Na mjestu  
oblikovani izolacijski proizvodi od celuloznog punila  
(LFCI) – 2. dio: Specifikacija za ugrađene proizvode  
(EN 15101-2:2013)

Thermal insulation products for buildings – In-situ  
formed loose fill cellulose (LFCI) products – Part 2:  
Specification for the installed products  
(EN 15101-2:2013)

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

HRN EN 336:2013 en pr  
Konstrukcijsko drvo – Dimenzije, dopuštena  
odstupanja (EN 336:2013)  
Structural timber – Sizes, permitted deviations  
(EN 336:2013)

HRN EN 1912:2012/Ispr.1:2013 en pr  
Drvene konstrukcije – Razredi čvrstoća –  
Pridruživanje razreda vizualnim razvrstavanjem i  
prema vrsti (EN 1912:2012/AC:2013)  
Structural Timber – Strength classes – Assignment of  
visual grades and species (EN 1912:2012/AC:2013)

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

HRN EN ISO 14889:2013 en pr  
Oftalmološka optika – Naočalne leće – Osnovni  
zahtjevi za neoblikovane gotove leće  
(ISO 14889:2013; EN ISO 14889:2013)  
Ophthalmic optics – Spectacle lenses – Fundamental  
requirements for uncut finished lenses  
(ISO 14889:2013; EN ISO 14889:2013)

HRN EN ISO 15798:2013 en pr  
Oftalmološki implantanti – Oftalmološka  
viskoznokirurška sredstva (ISO 15798:2013;  
EN ISO 15798:2013)  
Ophthalmic implants – Ophthalmic viscosurgical  
devices (ISO 15798:2013; EN ISO 15798:2013)

### **HZN/TO 178, Dizala, pokretne stube i pokretne trake za osobe**

HRN EN 81-77:2013 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala –  
Posebna primjena za osobna dizala i osobna teretna  
dizala – 77. dio: Dizala izložena seizmičkim uvjetima  
(EN 81-77:2013)  
Safety rules for the construction and installations of  
lifts – Particular applications for passenger and good  
passengers lifts – Part 77: Lifts subject to seismic  
conditions (EN 81-77:2013)

HRN EN 81-82:2013 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala –  
Postojeća dizala – 82. dio: Poboľšanje pristupačnosti  
dizala osobama s posebnim potrebama  
(EN 81-82:2013)  
Safety rules for the construction and installation of lifts  
– Existing lifts – Part 82: Rules for the improvement of  
the accessibility of existing lifts for persons including  
persons with disability (EN 81-82:2013)

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

HRN EN 12221-1:2013 en pr  
Proizvodi za dojenčad i malu djecu – Namještaj za  
prematanje za kućnu uporabu – 1. dio: Sigurnosni  
zahtjevi (EN 12221-1:2008+A1:2013)  
Child use and care articles – Changing units for  
domestic use – Part 1: Safety requirements  
(EN 12221-1:2008+A1:2013)

HRN EN 12221-2:2013 en pr  
Proizvodi za dojenčad i malu djecu – Namještaj  
za prematanje za kućnu uporabu – 2. dio: Metode  
ispitivanja (EN 12221-2:2008+A1:2013)  
Child use and care articles – Changing units for  
domestic use – Part 2: Test methods  
(EN 12221-2:2008+A1:2013)

HRN EN 16232:2013 en pr  
Proizvodi za dojenčad i malu djecu – Njihaljke za dojenčad (EN 16232:2013)  
Child use and care articles – Infant swings (EN 16232:2013)

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

HRN EN ISO 14688-1:2008/A1:2013 en pr  
Geotehničko istraživanje i ispitivanje – Identifikacija i klasifikacija tla – 1. dio: Identifikacija i opis – Amandman 1 (ISO 14688-1:2002/Amd 1:2013; EN ISO 14688-1:2002/A1:2013)  
Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description – Amendment 1 (ISO 14688-1:2002/Amd 1:2013; EN ISO 14688-1:2002/A1:2013)

HRN EN ISO 14688-2:2008/A1:2013 en pr  
Geotehničko istraživanje i ispitivanje – Identifikacija i klasifikacija tla – 2. dio: Načela klasifikacije – Amandman 1 (ISO 14688-2:2004/Amd 1:2013; EN ISO 14688-2:2004/A1:2013)  
Geotechnical investigation and testing – Identification and classification of soil – Part 2: Principles for a classification – Amendment 1 (ISO 14688-2:2004/Amd 1:2013; EN ISO 14688-2:2004/A1:2013)

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

HRN EN ISO 17380:2013 en pr  
Kvaliteta tla – Određivanje ukupnih cijanida i lako oslobodivih cijanida – Metoda analize kontinuiranim tokom (ISO 17380:2013; EN ISO 17380:2013)  
Soil quality – Determination of total cyanide and easily liberatable cyanide – Continuous-flow analysis method (ISO 17380:2013; EN ISO 17380:2013)

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

HRN ISO 14066:2013 en pr  
Staklenički plinovi – Zahtjevi s obzirom na kompetenciju timova za validaciju i verifikaciju stakleničkih plinova (ISO 14066:2011)  
Greenhouse gases – Competence requirements for greenhouse gas validation teams and verification teams (ISO 14066:2011)

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

HRI CEN ISO/TR 24475:2013 en pr  
Kozmetika – Dobra proizvođačka praksa – Dokument za opću obuku (ISO/TR 24475:2010; CEN ISO/TR 24475:2013)  
Cosmetics – Good Manufacturing Practices – General training document (ISO/TR 24475:2010; CEN ISO/TR 24475:2013)

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

HRN EN 14215:2013 en pr  
Tekstilne podne obloge – Razredba strojno rađenih tepiha i staza s florom (EN 14215:2013)  
Textile floor coverings – Classification of machine-made pile rugs and runners (EN 14215:2013)

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

HRN EN 16416:2013 en pr  
Glinene geosintetičke barijere – Određivanje indeksa protoka vode – Metoda mjerenja propusnosti u uređaju s elastičnim stijenkama pri konstantnom potencijalu (EN 16416:2013)  
Geosynthetic clay barriers – Determination of water flux index – Flexible wall permeameter method at constant head (EN 16416:2013)

### **HZN/TO 228, Usluge u turizmu**

HRN EN 13809:2013 hr,en,fr,de pp  
Usluge u turizmu – Turističke agencije i turoperatori – Nazivlje (EN 13809:2003)  
Tourism services – Travel agencies and tour operators – Terminology (EN 13809:2003)

HRN EN ISO 18513:2013 hr,en,fr,de pp  
Usluge u turizmu – Hoteli i druge vrste turističkog smještaja – Nazivlje (ISO 18513:2003; EN ISO 18513:2003)  
Tourism services – Hotels and other types of tourism accommodation – Terminology (ISO 18513:2003; EN ISO 18513:2003)

### **HZN/TO 502, Plinski uređaji**

HRN EN 13278:2013 en pr  
Plinske konvekcijske grijalice prostorija s otvorenom komorom za izgaranje (EN 13278:2013)  
Open fronted gas-fired independent space heaters (EN 13278:2013)

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

HRN EN ISO 3183:2013 en pr  
Industrija nafte i zemnog plina – Čelične cijevi za sustave transporta cjevovodom (ISO 3183:2012; EN ISO 3183:2012)  
Petroleum and natural gas industries – Steel pipe for pipeline transportation systems (ISO 3183:2012; EN ISO 3183:2012)

HRN EN 10216-1:2013 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 1. dio: Cijevi od nelegiranih čelika s utvrđenim svojstvima pri sobnoj temperaturi (EN 10216-1:2013)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 1: Non-alloy steel tubes with specified room temperature properties (EN 10216-1:2013)

HRN EN 10216-3:2013 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 3. dio: Cijevi od legiranoga sitnozrnatog čelika (EN 10216-3:2013)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 3: Alloy fine grain steel tubes (EN 10216-3:2013)

HRN EN 10216-4:2013 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 4. dio: Cijevi od nelegiranih i legiranih čelika s utvrđenim svojstvima pri niskim temperaturama (EN 10216-4:2013)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 4: Non-alloy and alloy steel tubes with specified low temperature properties (EN 10216-4:2013)

HRN EN 10216-5:2013 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 5. dio: Nehrđajuće čelične cijevi (EN 10216-5:2013)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes (EN 10216-5:2013)

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

HRN EN ISO 13174:2013 en pr  
Katodna zaštita lučkih postrojenja (ISO 13174:2012; EN ISO 13174:2012)  
Cathodic protection of harbour installations (ISO 13174:2012; EN ISO 13174:2012)

## **HZN/TO 508, Ambalaža i pakiranje**

- HRN EN ISO 13274:2013 en pr  
Ambalaža – Transportna ambalaža za opasne terete – Ispitivanje kompatibilnosti plastika za ambalažu i IBC-ove (ISO 13274:2013; EN ISO 13274:2013)  
Packaging – Transport packaging for dangerous goods – Plastics compatibility testing for packaging and IBCs (ISO 13274:2013; EN ISO 13274:2013)
- HRN EN ISO 16495:2013 en pr  
Ambalaža – Transportna ambalaža za opasne terete – Metode ispitivanja (ISO 16495:2013; EN ISO 16495:2013)  
Packaging – Transport packaging for dangerous goods – Test methods (ISO 16495:2013; EN ISO 16495:2013)

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

- HRN EN 13757-3:2013 en pr  
Sustavi komunikacije kod mjerila i daljinsko očitavanje mjerila – 3. dio: Opseg primjene (EN 13757-3:2013)  
Communication systems for and remote reading of meters – Part 3: Dedicated application layer (EN 13757-3:2013)
- HRN EN 13757-4:2013 en pr  
Sustavi komunikacije kod mjerila i daljinsko očitavanje mjerila – 4. dio: Bežično očitavanje mjerila (Očitavanje mjerila radiovezom u SRD pojasu) (EN 13757-4:2013)  
Communication systems for meters and remote reading of meters – Part 4: Wireless meter readout (Radio meter reading for operation in SRD bands) (EN 13757-4:2013)

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

- HRN EN 12811-4:2013 en pr  
Privremena radna oprema – 4. dio: Zaštitne nadstrešnice za skele – Izvedbeni zahtjevi i projektiranje (EN 12811-4:2013)  
Temporary works equipment – Part 4: Protection fans for scaffolds – Performance requirements and product design (EN 12811-4:2013)

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

- HRS CEN/TS 16384:2013 en pr  
Sintetički sportski sustavi – Ispitivanje ispiranjem (CEN/TS 16384:2012)  
Synthetic sport systems – Leaching test (CEN/TS 16384:2012)

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

- HRN EN 13707:2013 en pr  
Savijljive hidroizolacijske trake – Bitumenske hidroizolacijske krovne trake s uloškom – Definicije i značajke (EN 13707:2013)  
Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing – Definitions and characteristics (EN 13707:2013)
- HRN EN 14509:2013 en pr  
Samonosivi izolacijski paneli obostrano obloženi limom – Tvornički izrađeni proizvodi – Specifikacije (EN 14509:2013)  
Self-supporting double skin metal faced insulating panels – Factory made products – Specifications (EN 14509:2013)

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

- HRN EN 15877-2:2013 en pr  
Oprema za željeznice – Označavanje željezničkih vozila – 2. dio: Vanjsko označavanje teretnih, pogonskih jedinica, lokomotiva i pružnih strojeva (EN 15877-2:2013)

Railway applications – Markings of railway vehicles – Part 2: External markings on coaches, motive power units, locomotives and on track machines (EN 15877-2:2013)

- HRN EN 16235:2013 en pr  
Oprema za željeznice – Ispitivanje prihvatljivosti vozničkih značajki željezničkih vozila – Teretni vagoni – Uvjeti za podjelu teretnih vagona s definiranim značajkama iz ispitivanja na kolosijeku prema EN 14363 (EN 16235:2013)  
Railway applications – Testing for the acceptance of running characteristics of railway vehicles – Freight wagons – Conditions for dispensation of freight wagons with defined characteristics from on-track tests according to EN 14363 (EN 16235:2013)

## **HZN/TO 530, Čelična užad, lanci, dizalične kuke, trake, omče i pribor**

- HRN EN 12195-1:2011/Ispr.1:2013 en pr  
Osiguranje tereta na cestovnim vozilima – Sigurnost – 1. dio: Proračun sila osiguranja (EN 12195-1:2010/AC:2013)  
Load restraining on road vehicles – Safety – Part 1: Calculation of securing forces (EN 12195-1:2010/AC:2013)

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

- HRN EN ISO 306:2013 en pr  
Plastika – Plastomerni materijali – Određivanje temperature omekšavanja po Vicatu (VST) (ISO 306:2013; EN ISO 306:2013)  
Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST) (ISO 306:2013; EN ISO 306:2013)
- HRN EN 438-9:2013 en pr  
Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajenoga naziva laminati) – 9. dio: Razredba i specifikacije za laminatne alternativnih jezgri (EN 438-9:2010+A1:2013)  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 9: Classification and specifications for alternative core laminates (EN 438-9:2010+A1:2013)
- HRN EN ISO 4892-3:2013 en pr  
Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 3. dio. Fluorescentne UV-svjetiljke (ISO 4892-3:2013; EN ISO 4892-3:2013)  
Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO 4892-3:2013; EN ISO 4892-3:2013)
- HRN EN 13482:2013 en pr  
Gumena crijeva i crijevni uređaji za asfalt i bitumen – Specifikacija (EN 13482:2013)  
Rubber hoses and hose assemblies for asphalt and bitumen – Specification (EN 13482:2013)

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

- HRN EN 14471:2013 en pr  
Dimnjaci – Sustavi dimnjaka s plastičnim dimovodnim cijevima – Zahtjevi i metode ispitivanja (EN 14471:2013)  
Chimneys – System chimneys with plastic flue liners – Requirements and test methods (EN 14471:2013)

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

- HRN EN 13286-2:2010/Ispr.1:2013 en pr  
Nevezane i hidrauličnim vezivom vezane mješavine – 2. dio: Metode ispitivanja za određivanje laboratorijske referentne gustoće i udjela vode – Zbijanje prema Proctoru (EN 13286-2:2010/AC:2012)



Unbound and hydraulically bound mixtures – Part 2: Test methods for laboratory reference density and water content – Proctor compaction (EN 13286-2:2010/AC:2012)

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

HRN EN 16321-1:2013 en pr  
Obnova benzinskih para za vrijeme punjenja gorivom motornih vozila u servisnim postajama – 1. dio: Metode ispitivanja za tip provjere ocjenjivanja učinkovitosti sustava obnove benzinskih para (EN 16321-1:2013)  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 1: Test methods for the type approval efficiency assessment of petrol vapour recovery systems (EN 16321-1:2013)

HRN EN 16321-2:2013 en pr  
Obnova benzinskih para za vrijeme punjenja gorivom motornih vozila na servisnim postajama – 2. dio: Metode ispitivanja za provjeru sustava obnove para na servisnim postajama (EN 16321-2:2013)  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 2: Test methods for verification of vapour recovery systems at service stations (EN 16321-2:2013)

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

HRN EN 13179-1:2013 en pr  
Ispitivanja punila za bitumenske mješavine – 1. dio: Razlika između točaka razmekšanja dobivenih ispitivanjem prstenom i kuglicom (EN 13179-1:2013)  
Tests for filler aggregate used in bituminous mixtures – Part 1: Delta ring and ball test (EN 13179-1:2013)

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

HRN EN 15683-1:2013 en pr  
Staklo u graditeljstvu – Termički kaljeno natrij-kalcij-silikatno sigurnosno U-staklo – 1. dio: Definicija i opis (EN 15683-1:2013)  
Glass in building – Thermally toughened soda lime silicate channel shaped safety glass – Part 1: Definition and description (EN 15683-1:2013)

### **HZN/TO 539, Kemijski dezinficijensi i antiseptici**

HRN EN 13727:2013 en pr  
Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za vrednovanje baktericidne djelotvornosti u medicini – Metoda ispitivanja i zahtjevi (faza 2, korak 1) (EN 13727:2012+A1:2013)  
Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity in the medical area – Test method and requirements (phase 2, step 1) (EN 13727:2012+A1:2013)

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

HRN EN 1012-3:2013 en pr  
Kompresori i vakuumske pumpe – Sigurnosni zahtjevi – 3. dio: Procesni kompresori (EN 1012-3:2013)  
Compressors and vacuum pumps – Safety requirements – Part 3: Process compressors (EN 1012-3:2013)

HRN EN 12098-3:2013 en pr  
Regulacija sustava grijanja – 3. dio: Oprema za regulaciju za sustave električnog grijanja (EN 12098-3:2013)  
Controls for heating systems – Part 3: Control equipment for electrical heating systems (EN 12098-3:2013)

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

HRN EN 15804:2013 en pr  
Održivost građevina – Izjava zaštite okoliša – Osnovna pravila za kategorizaciju građevnih proizvoda (EN 15804:2012+A1:2013)  
Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products (EN 15804:2012+A1:2013)

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

HRN EN ISO 10545-9:2013 en pr  
Keramičke pločice – 9. dio: Određivanje otpornosti na toplinske promjene (ISO 10545-9:2013; EN ISO 10545-9:2013)  
Ceramic tiles – Part 9: Determination of resistance to thermal shock (ISO 10545-9:2013; EN ISO 10545-9:2013)

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

HRN EN 1041:2013 en pr  
Informacije koje daje proizvođač medicinskih proizvoda (EN 1041:2008+A1:2013)  
Information supplied by the manufacturer of medical devices (EN 1041:2008+A1:2013)

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

HRN 1144:2013 hr izv  
Vatrogasni opasači – Zahtjevi i ispitivanja  
Firefighter belts – Requirements and testing  
HRN EN ISO 17249:2013 en pr  
Sigurnosna obuća otporna na zarezivanje lančanom pilom (ISO 17249:2013; EN ISO 17249:2013)  
Safety footwear with resistance to chain saw cutting (ISO 17249:2013; EN ISO 17249:2013)

### **HZN/TO 557, Zaštitna odjeća**

HRN EN 374-4:2013 en pr  
Rukavice za zaštitu od kemikalija i mikroorganizama – 4. dio: Određivanje otpornosti na razgradnju kemikalijama (EN 374-4:2013)  
Protective gloves against chemicals and microorganisms – Part 4: Determination of resistance to degradation by chemicals (EN 374-4:2013)

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

HRN EN 13547:2013 en pr  
Industrijski zaporni uređaji – Kuglaste slavine od bakrenih legura (EN 13547:2013)  
Industrial valves – Copper alloy ball valves (EN 13547:2013)

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

HRN EN ISO 2076:2013 en pr  
Tekstil – Umjetna vlakna – Generički nazivi (ISO 2076:2013; EN ISO 2076:2013)  
Textiles – Man-made fibres – Generic names (ISO 2076:2013; EN ISO 2076:2013)  
HRN EN 13402-3:2013 en pr  
Označavanje veličina odjeće – 3. dio: Mjere i intervali (EN 13402-3:2013)  
Size designation of clothes – Part 3: Body measurements and intervals (EN 13402-3:2013)

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

HRN EN 13480-2:2012/A1:2013 en pr  
Metalni industrijski cjevovodi – 2. dio: Materijali  
(EN 13480-2:2012/A1:2013)  
Metallic industrial piping – Part 2: Materials  
(EN 13480-2:2012/A1:2013)

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

HRN EN 1870-19:2013 en pr  
Sigurnost strojeva za obradu drveta – Kružne pile – 19. dio: Stolne kružne pile (s kliznim stolom i bez njega) i s ugrađenom bočnom pilom  
(EN 1870-19:2013)  
Safety of woodworking machines – Circular sawing machines – Part 19: Circular saw benches (with and without sliding table) and building site saws  
(EN 1870-19:2013)

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

HRN EN 15583-2:2013 en pr  
Oprema za zimsko održavanje – Plugovi za snijeg – 2. dio: Kriterij ispitivanja i njegovi zahtjevi  
(EN 15583-2:2012)  
Winter maintenance equipment – Snow ploughs – Part 2: Testing criteria and their requirements  
(EN 15583-2:2012)

HRN EN 15906:2013 en pr  
Oprema za zimsko održavanje – Strojevi za čišćenje snijega s rotirajućim alatima – Specifikacija i kapacitet čišćenja (EN 15906:2011)  
Winter maintenance equipment – Snow removal machines with rotating tools – Specification and clearing capacity (EN 15906:2011)

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

HRN EN ISO 3657:2013 en pr  
Životinjske i biljne masti i ulja – Određivanje broja osapunjenja (ISO 3657:2013; EN ISO 3657:2013)  
Animal and vegetable fats and oils – Determination of saponification value (ISO 3657:2013; EN ISO 3657:2013)

HRN EN ISO 3961:2013 en pr  
Životinjske i biljne masti i ulja – Određivanje jednog broja (ISO 3961:2013; EN ISO 3961:2013)  
Animal and vegetable fats and oils – Determination of iodine value (ISO 3961:2013; EN ISO 3961:2013)

HRN EN ISO 9167-1:2011/A1:2013 en pr  
Repičino sjeme – Određivanje udjela glukozinolata – 1. dio: Metoda tekućinske kromatografije visokog učinka – Amandman 1 (ISO 9167-1:1992/Amd 1:2013; EN ISO 9167-1:1995/A1:2013)  
Rapeseed – Determination of glucosinolates content – Part 1: Method using high-performance liquid chromatography – Amendment 1  
(ISO 9167-1:1992/Amd 1:2013; EN ISO 9167-1:1995/A1:2013)

### **HZN/TO 566, *Mlijeko i mliječni proizvodi***

HRN EN ISO 11816-1:2013 en pr  
Mlijeko i mliječni proizvodi – Određivanje aktivnosti alkalne fosfataze – 1. dio: Fluorometrijska metoda za mlijeko i napitke na osnovi mlijeka  
(ISO 11816-1:2013; EN ISO 11816-1:2013)  
Milk and milk products – Determination of alkaline phosphatase activity – Part 1: Fluorimetric method for milk and milk-based drinks  
(ISO 11816-1:2013; EN ISO 11816-1:2013)

HRN EN ISO 13366-1:2008/Ispr.1:2013 en pr  
Mlijeko – Određivanje broja somatskih stanica – 1. dio: Mikroskopska metoda (Referentna metoda) (ISO 13366-1:2008/Cor 1:2009; EN ISO 13366-1:2008/AC:2009)  
Milk – Enumeration of somatic cells – Part 1: Microscopic method (Reference method) (ISO 13366-1:2008/Cor 1:2009; EN ISO 13366-1:2008/AC:2009)

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

HRN EN ISO 4833-1:2013 en pr  
Mikrobiologija lanca hrane – Horizontalna metoda za određivanje broja mikroorganizama – 1. dio: Određivanje broja kolonija pri 30 °C tehnikom zalijevanja podloge (ISO 4833-1:2013; EN ISO 4833-1:2013)  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique (ISO 4833-1:2013; EN ISO 4833-1:2013)

HRN EN ISO 4833-2:2013 en pr  
Mikrobiologija lanca hrane – Horizontalna metoda za određivanje broja mikroorganizama – 2. dio: Određivanje broja kolonija pri 30 °C tehnikom nasadivanja na površinu podloge (ISO 4833-2:2013; EN ISO 4833-2:2013)  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30 degrees C by the surface plating technique (ISO 4833-2:2013; EN ISO 4833-2:2013)

HRN EN ISO 7218:2008/A1:2013 en pr  
Mikrobiologija hrane i hrane za životinje – Opći zahtjevi i upute za mikrobiološka ispitivanja – Amandman 1 (ISO 7218:2007/Amd 1:2013; EN ISO 7218:2007/A1:2013)  
Microbiology of food and animal feeding stuffs – General requirements and guidance for microbiological examinations – Amendment 1 (ISO 7218:2007/Amd 1:2013; EN ISO 7218:2007/A1:2013)

HRN EN 12393-1:2013 en pr  
Hrana biljnog podrijetla – Multirezidualne metode za određivanje ostataka pesticida upotrebom GC ili LC-MS/MS – 1. dio: Opća razmatranja (EN 12393-1:2013)  
Foods of plant origin – Multiresidue methods for the determination of pesticide residues by GC or LC-MS/MS – Part 1: General considerations (EN 12393-1:2013)

HRN EN 12393-2:2013 en pr  
Hrana biljnog podrijetla – Multirezidualne metode za određivanje ostataka pesticida upotrebom GC ili LC-MS/MS – 2. dio: Metode za ekstrakciju i pročišćavanje (EN 12393-2:2013)  
Foods of plant origin – Multiresidue methods for the determination of pesticide residues by GC or LC-MS/MS – Part 2: Methods for extraction and clean-up (EN 12393-2:2013)

HRN EN 12393-3:2013 en pr  
Hrana biljnog podrijetla – Multirezidualne metode za određivanje ostataka pesticida upotrebom GC ili LC-MS/MS – 3. dio: Određivanje i potvrdna ispitivanja (EN 12393-3:2013)  
Foods of plant origin – Multiresidue methods for the determination of pesticide residues by GC or LC-MS/MS – Part 3: Determination and confirmatory tests (EN 12393-3:2013)

HRN EN 13804:2013 en pr  
Hrana – Određivanje elemenata i njihovih kemijskih vrsta – Opća razmatranja i posebni uvjeti (EN 13804:2013)  
Foodstuffs – Determination of elements and their chemical species – General considerations and specific requirements (EN 13804:2013)

- HRN EN 16466-1:2013 en pr  
Ocat – Izotopna analiza octene kiseline i vode –  
1. dio: 2H-NMR analiza octene kiseline  
(EN 16466-1:2013)  
Vinegar – Isotopic analysis of acetic acid and water –  
Part 1: 2H-NMR analysis of acetic acid  
(EN 16466-1:2013)
- HRN EN 16466-2:2013 en pr  
Ocat – Izotopna analiza octene kiseline i vode –  
2. dio: 13C-IRMS analiza octene kiseline  
(EN 16466-2:2013)  
Vinegar – Isotopic analysis of acetic acid and water –  
Part 2: 13C-IRMS analysis of acetic acid  
(EN 16466-2:2013)
- HRN EN 16466-3:2013 en pr  
Ocat – Izotopna analiza octene kiseline i vode –  
3. dio: 18O-IRMS analiza vode u vinskom octu  
(EN 16466-3:2013)  
Vinegar – Isotopic analysis of acetic acid and water  
– Part 3: 18O-IRMS analysis of water in wine vinegar  
(EN 16466-3:2013)
- HRS CEN ISO/TS 17919:2013 en pr  
Mikrobiologija lanca hrane – Lančana reakcija  
polimerazom (PCR) za dokazivanje patogena koji se  
prenose hranom – Dokazivanje botulinum tipa A, B, E  
i F neurotoksin producirajućih klostridija  
(ISO/TS 17919:2013; CEN ISO/TS 17919:2013)  
Microbiology of the food chain – Polymerase chain  
reaction (PCR) for the detection of food-borne  
pathogens – Detection of botulinum type A, B, E and F  
neurotoxin-producing clostridia (ISO/TS 17919:2013;  
CEN ISO/TS 17919:2013)
- HRS ISO/TS 21569-2:2013 en pr  
Horizontalne metode za analizu molekularnim  
biomarkerima – Metode analize za dokazivanje  
prisutnosti genetički modificiranih organizama i od  
njih dobivenih proizvoda – 2. dio: Construct specifična  
PCR metoda u stvarnom vremenu za otkrivanje  
prisutnosti FP967 u lanenom sjemenu i proizvodima  
od lana (ISO/TS 21569-2:2012)  
Horizontal methods for molecular biomarker analysis  
– Methods of analysis for the detection of genetically  
modified organisms and derived products – Part 2:  
Construct-specific real-time PCR method for  
detection of event FP967 in linseed and linseed  
products (ISO/TS 21569-2:2012)

### **HZNTO 571, Sport, igrališta i ostali rekreacijski sadržaji i oprema**

- HRN EN 1069-1:2011/Ispr.1:2013 en pr  
Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode  
ispitivanja (EN 1069-1:2010/AC:2012)  
Water slides – Part 1: Safety requirements and test  
methods (EN 1069-1:2010/AC:2012)
- HRN EN 12270:2013 en pr  
Planinarska oprema – Zaglavci – Sigurnosni zahtjevi  
i metode ispitivanja (EN 12270:2013)  
Mountaineering equipment – Chocks – Safety  
requirements and test methods (EN 12270:2013)
- HRN EN 12276:2013 en pr  
Planinarska oprema – Tarne naprave za sidrenje –  
Sigurnosni zahtjevi i metode ispitivanja  
(EN 12276:2013)  
Mountaineering equipment – Frictional anchors –  
Safety requirements and test methods  
(EN 12276:2013)
- HRN EN 13451-3:2013 en pr  
Oprema za bazene – 3. dio: Dodatni posebni  
sigurnosni zahtjevi i metode ispitivanja za dovode i  
odvode i naprave za zabavu na temelju vode/zraka  
(EN 13451-3:2011+A1:2013)

Swimming pool equipment – Part 3: Additional  
specific safety requirements and test methods for  
inlets and outlets and water/air based water leisure  
features (EN 13451-3:2011+A1:2013)

### **HZNTO E14, Energetski transformatori**

- HRN EN 50541-2:2013 en pr  
Trofazni suhi distributivni transformatori, 50 Hz, 100  
do 3150 kVA, najvećeg napona opreme do 36 kV –  
2. dio: Određivanje nazivne snage transformatora pri  
nesinusnoj struji (EN 50541-2:2013)  
Three phase dry-type distribution transformers  
50 Hz, from 100 kVA to 3150 kVA, with highest  
voltage for equipment not exceeding 36 kV – Part 2:  
Determination of loadability of a transformer loaded  
with non-sinusoidal current (EN 50541-2:2013)
- HRN EN 60076-14:2013 en pr  
Energetski transformatori – 14. dio: Transformatori  
uronjeni u tekućinu s ugrađenim visokotemperaturnim  
izolacijskim materijalima (IEC 60076-14:2013;  
EN 60076-14:2013)  
Power transformers – Part 14: Liquid-immersed  
power transformers using high-temperature insulation  
materials (IEC 60076-14:2013; EN 60076-14:2013)

### **HZNTO E15, Čvrsti elektrotehnički izolacijski materijali**

- HRN EN 60455-3-8:2013 en pr  
Reaktivne mješavine na bazi smola koje se  
upotrebljavaju za električne izolacije – 3. dio:  
Specifikacije za pojedinačne materijale – 8. list:  
Smole za kabelski pribor (IEC 60455-3-8:2013;  
EN 60455-3-8:2013)  
Resin based reactive compounds used for electrical  
insulation – Part 3: Specifications for individual  
materials – Sheet 8: Resins for cable accessories  
(IEC 60455-3-8:2013; EN 60455-3-8:2013)
- HRN EN 60626-3:2008/A1:2013 en pr  
Kombinirani savitljivi materijali za električne izolacije  
– 3. dio: Specifikacije za pojedinačne materijale  
(IEC 60626-3:2008/am1:2012;  
EN 60626-3:2008/A1:2012)  
Combined flexible materials for electrical insulation –  
Part 3: Specifications for individual materials  
(IEC 60626-3:2008/am1:2012;  
EN 60626-3:2008/A1:2012)
- HRN EN 60819-3-3:2013 en pr  
Necelulozni papiri za elektrotehničke svrhe – 3. dio:  
Specifikacije za pojedinačne materijale – 3. list:  
Aramidni (aromatski poliamid) papiri bez punila  
(IEC 60819-3-3:2011; EN 60819-3-3:2011)  
Non-cellulosic papers for electrical purposes –  
Part 3: Specifications for individual materials – Sheet  
3: Unfilled aramid (aromatic polyamide) papers  
(IEC 60819-3-3:2011; EN 60819-3-3:2011)
- HRN EN 60893-3-1:2013 en pr  
Izolacijski materijali – Industrijski izrađeni kruti  
laminirani listovi na bazi termoreaktivnih smola za  
elektrotehničke svrhe – Dio 3-1: Specifikacije za  
pojedinačne materijale – Tipovi industrijski izrađenih  
krutih laminiranih listova (IEC 60893-3-1:2012;  
EN 60893-3-1:2012)  
Insulating materials – Industrial rigid laminated  
sheets based on thermosetting resins for electrical  
purposes – Part 3-1: Specifications for individual  
materials – Types of industrial rigid laminated sheets  
(IEC 60893-3-1:2012; EN 60893-3-1:2012)
- HRN EN 61212-3-1:2013 en pr  
Izolacijski materijali – Industrijski izrađene krute  
okrugle cijevi i motke izrađene prešanjem slojevitih  
tehničkih materijala na bazi termoreaktivnih smola  
za elektrotehničke svrhe – 3. dio: Specifikacije  
za pojedinačne materijale – 1. list: Okrugle cijevi  
oblikovane namatanjem (IEC 61212-3-1:2013;  
EN 61212-3-1:2013)

Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Round laminated rolled tubes (IEC 61212-3-1:2013; EN 61212-3-1:2013)

- HRN EN 61212-3-2:2013 en pr  
Izolacijski materijali – Industrijski izrađene krute okrugle cijevi i motke izrađene prešanjem slojevitih tehničkih materijala na bazi termoreaktivnih smola za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 2. list: Okrugle cijevi oblikovane toplim prešanjem (IEC 61212-3-2:2013; EN 61212-3-2:2013)  
Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Round laminated moulded tubes (IEC 61212-3-2:2013; EN 61212-3-2:2013)

### HZNTO E23, *Električni instalacijski pribor*

- HRN EN 62606:2013 en pr  
Opći zahtjevi za uređaje za otkrivanje elektrolučnog kvara (IEC 62606:2013, MOD+Corr.1:2013; EN 62606:2013)  
General requirements for arc fault detection devices (IEC 62606:2013, MOD+Corr.1:2013; EN 62606:2013)

### HZNTO E31, *Eksplozivne atmosfere*

- HRN EN 50050-1:2013 en pr  
Elektrostatska ručna oprema za nanošenje premaza – Sigurnosni zahtjevi – 1. dio: Ručna oprema za nanošenje zapaljivih tekućih tvari za premazivanje (EN 50050-1:2013)  
Electrostatic hand-held spraying equipment – Safety requirements – Part 1: Hand-held spraying equipment for ignitable liquid coating materials (EN 50050-1:2013)
- HRN EN 50050-2:2013 en pr  
Elektrostatska ručna oprema za nanošenje premaza – Sigurnosni zahtjevi – 2. dio: Ručna oprema za nanošenje zapaljivog praha za premazivanje (EN 50050-2:2013)  
Electrostatic hand-held spraying equipment – Safety requirements – Part 2: Hand-held spraying equipment for ignitable coating powder (EN 50050-2:2013)
- HRN EN 50050-3:2013 en pr  
Elektrostatska ručna oprema za nanošenje premaza – Sigurnosni zahtjevi – 3. dio: Ručna oprema za nanošenje zapaljivih vlakana za premazivanje (EN 50050-3:2013)  
Electrostatic hand-held spraying equipment – Safety requirements – Part 3: Hand-held spraying equipment for ignitable flock (EN 50050-3:2013)

### HZNTO E45, *Nuklearna instrumentacija*

- HRN EN 62598:2013 en pr  
Nuklearna instrumentacija – Konstrukcijski zahtjevi i razdioba radiometrijskih mjerača (IEC 62598:2011; EN 62598:2013)  
Nuclear instrumentation – Constructional requirements and classification of radiometric gauges (IEC 62598:2011; EN 62598:2013)

### HZNTO E55, *Žice za namote*

- HRN EN 60172:2001/A2:2013 en pr  
Ispitni postupak određivanja indeksa temperaturne lakirane žice za namote (IEC 60172:1987/am2:2010; EN 60172:1994/A2:2010)

Test procedure for the determination of the temperature index of enamelled winding wires (IEC 60172:1987/am2:2010; EN 60172:1994/A2:2010)

- HRN EN 60264-1:2001/A1:2013 en pr  
Pakiranje žice za namote – 1. dio: Ambalaža za okrugle žice za namote (IEC 60264-1:1968/am1:2009; EN 60264-1:1994/A1:2009)  
Packaging of winding wires – Part 1: Containers for round winding wires (IEC 60264-1:1968/am1:2009; EN 60264-1:1994/A1:2009)
- HRN EN 60264-4-1:2013 en pr  
Pakiranje žice za namote – Dio 4-1: Metode ispitivanja – Koluti za isporuku od termoplastičnih materijala (IEC 60264-4-1:1997+am1:2009; EN 60264-4-1:2010)  
Packaging of winding wires – Part 4-1: Methods of test – Delivery spools made from thermoplastic materials (IEC 60264-4-1:1997+am1:2009; EN 60264-4-1:2010)
- HRN EN 60317-8:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 8. dio: Poliestereimdom lakirana okrugla bakrena žica, razreda 180 (IEC 60317-8:2010; EN 60317-8:2010)  
Specifications for particular types of winding wires – Part 8: Polyesterimide enamelled round copper wire, class 180 (IEC 60317-8:2010; EN 60317-8:2010)
- HRN EN 60317-12:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 12. dio: Polivinil acetalom lakirana okrugla bakrena žica, razreda 120 (IEC 60317-12:2010; EN 60317-12:2010)  
Specifications for particular types of winding wires – Part 12: Polyvinyl acetal enamelled round copper wire, class 120 (IEC 60317-12:2010; EN 60317-12:2010)
- HRN EN 60317-13:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 13. dio: Poliesterom ili poliestereimdom lakirana, prekrivena poliamid-imidom, okrugla bakrena žica, razreda 200 (IEC 60317-13:2010; EN 60317-13:2010)  
Specifications for particular types of winding wires – Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200 (IEC 60317-13:2010; EN 60317-13:2010)
- HRN EN 60317-15:2005/A1:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 15. dio: Poliestereimdom lakirana okrugla aluminijska žica, razreda 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)  
Specifications for particular types of winding wires – Part 15: Polyesterimide enamelled round aluminium wire, class 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)
- HRN EN 60317-17:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 17. dio: Polivinil acetalom lakirana profilna bakrena žica, razreda 105 (IEC 60317-17:2010; EN 60317-17:2010)  
Specifications for particular types of winding wires – Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105 (IEC 60317-17:2010; EN 60317-17:2010)
- HRN EN 60317-18:2005/A1:2013 en pr  
Specifikacije pojedinih vrsta žica za namote – 18. dio: Polivinil acetalom lakirana profilna bakrena žica, razreda 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)  
Specifications for particular types of winding wires – Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)

- HRN EN 60317-22:2005/A1:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 22. dio: Poliester ili poliesterimidom lakirana okrugla bakrena žica, prekrivena poliamidom, razreda 180 (IEC 60317-22:2004/am1:2009; EN 60317-22:2004/A1:2010)  
 Specifications for particular types of winding wires – Part 22: Polyester or polyesterimide enamelled round copper wire overcoated with polyamide, class 180 (IEC 60317-22:2004/am1:2009; EN 60317-22:2004/A1:2010)
- HRN EN 60317-25:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 25. dio: Poliester ili poliesterimidom lakirana okrugla aluminijska žica, prekrivena poliamidom, razreda 200 (IEC 60317-25:2010; EN 60317-25:2010)  
 Specifications for particular types of winding wires – Part 25: Polyester or polyesterimide overcoated with polyamide-imide enamelled round aluminium wire, class 200 (IEC 60317-25:2010; EN 60317-25:2010)
- HRN EN 60317-26:2001/A2:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 26. dio: Poliamid imidom lakirana okrugla bakrena žica, razreda 200 (IEC 60317-26:1990/am2:2010; EN 60317-26:1996/A2:2010)  
 Specifications for particular types of winding wires – Part 26: Polyamide-imide enamelled round copper wire, class 200 (IEC 60317-26:1990/am2:2010; EN 60317-26:1996/A2:2010)
- HRN EN 60317-29:2001/A2:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 29. dio: Poliester ili poliesterimidom lakirana profilna bakrena žica, prekrivena poliamid imidom, razreda 200 (IEC 60317-29:1990/am2:2010; EN 60317-29:1996/A2:2010)  
 Specifications for particular types of winding wires – Part 29: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular copper wire, class 200 (IEC 60317-29:1990/am2:2010; EN 60317-29:1996/A2:2010)
- HRN EN 60317-42:2001/A1:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 42. dio: Poliester-amid-imidom lakirana okrugla bakrena žica, razreda 200 (IEC 60317-42:1997/am1:2010; EN 60317-42:1997/A1:2010)  
 Specifications for particular types of winding wires – Part 42: Polyester-amide-imide enamelled round copper wire, class 200 (IEC 60317-42:1997/am1:2010; EN 60317-42:1997/A1:2010)
- HRN EN 60317-43:2001/A1:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 43. dio: Okrugla bakrena lakirana žica, omotana trakama od aromatskog poliimida, razreda 240 (IEC 60317-43:1997/am1:2010; EN 60317-43:1997/A1:2010)  
 Specifications for particular types of winding wires – Part 43: Aromatic polyimide tape wrapped round copper wire, class 240 (IEC 60317-43:1997/am1:2010; EN 60317-43:1997/A1:2010)
- HRN EN 60317-44:2001/A1:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 44. dio: Profilna bakrena lakirana žica, omotana trakama od aromatskog poliimida, razreda 240 (IEC 60317-44:1997/am1:2010; EN 60317-44:1997/A1:2010)  
 Specifications for particular types of winding wires – Part 44: Aromatic polyimide tape wrapped rectangular copper wire, class 240 (IEC 60317-44:1997/am1:2010; EN 60317-44:1997/A1:2010)
- HRN EN 60317-48:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 48. dio: Nelakirana ili lakirana profilna bakrena žica, omotana staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 155 (IEC 60317-48:2012; EN 60317-48:2012)  
 Specifications for particular types of winding wires – Part 48: Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire, temperature index 155 (IEC 60317-48:2012; EN 60317-48:2012)
- HRN EN 60317-57:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 57. dio: Poliamid-imide lakirana okrugla bakrena žica, razreda 220 (IEC 60317-57:2010; EN 60317-57:2010)  
 Specifications for particular types of winding wires – Part 57: Polyamide-imide enamelled round copper wire, class 220 (IEC 60317-57:2010; EN 60317-57:2010)
- HRN EN 60317-58:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 58. dio: Poliamid-imidom lakirana profilna bakrena žica, razreda 220 (IEC 60317-58:2010; EN 60317-58:2010)  
 Specifications for particular types of winding wires – Part 58: Polyamide-imide enamelled rectangular copper wire, class 220 (IEC 60317-58:2010; EN 60317-58:2010)
- HRN EN 60851-1:2001/A2:2013 en pr  
 Žice za namote – Ispitne metode – 1. dio: Općenito (IEC 60851-1:1996/am2:2009; EN 60851-1:1996/A2:2009)  
 Winding wires – Test methods – Part 1: General (IEC 60851-1:1996/am2:2009; EN 60851-1:1996/A2:2009)
- HRN EN 60851-2:2013 en pr  
 Žice za namote – Ispitne metode – 2. dio: Određivanje dimenzija (IEC 60851-2:2009; EN 60851-2:2009)  
 Winding wires – Test methods – Part 2: Determination of dimensions (IEC 60851-2:2009; EN 60851-2:2009)
- HRN EN 60851-5:2008/A1:2013 en pr  
 Žice za namote – Ispitne metode – 5. dio: Električna svojstva (IEC 60851-5:2008/am1:2011; EN 60851-5:2008/A1:2011)  
 Winding wires – Test methods – Part 5: Electrical properties (IEC 60851-5:2008/am1:2011; EN 60851-5:2008/A1:2011)

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

- HRI CLC/TR 61158-1:2013 en pr  
 Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – 1. dio: Pregled i upute za niz norma IEC 61158 i IEC 61784 (IEC/TR 61158-1:2010; CLC/TR 61158-1:2010)  
 Industrial communication networks – Fieldbus specifications – Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series (IEC/TR 61158-1:2010; CLC/TR 61158-1:2010)
- HRN EN 61158-3-12:2013 en pr  
 Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-12: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-3-12:2010; EN 61158-3-12:2012)  
 Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements (IEC 61158-3-12:2010; EN 61158-3-12:2012)

- HRN EN 61158-3-14:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-14: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 14 (IEC 61158-3-14:2010; EN 61158-3-14:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-14: Data-link layer service definition – Type 14 elements (IEC 61158-3-14:2010; EN 61158-3-14:2012)
- HRN EN 61158-3-19:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-19: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-3-19:2010; EN 61158-3-19:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements (IEC 61158-3-19:2010; EN 61158-3-19:2012)
- HRN EN 61158-3-21:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-21: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 21 (IEC 61158-3-21:2010; EN 61158-3-21:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-21: Data-link layer service definition – Type 21 elements (IEC 61158-3-21:2010; EN 61158-3-21:2012)
- HRN EN 61158-3-22:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-22: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 22 (IEC 61158-3-22:2010; EN 61158-3-22:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-22: Data-link layer service definition – Type 22 elements (IEC 61158-3-22:2010; EN 61158-3-22:2012)
- HRN EN 61158-4-11:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-11: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 11 (IEC 61158-4-11:2010; EN 61158-4-11:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-11: Data-link layer protocol specification – Type 11 elements (IEC 61158-4-11:2010; EN 61158-4-11:2012)
- HRN EN 61158-4-12:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-12: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-4-12:2010; EN 61158-4-12:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-12: Data-link layer protocol specification – Type 12 elements (IEC 61158-4-12:2010; EN 61158-4-12:2012)
- HRN EN 61158-4-14:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-14: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 14 (IEC 61158-4-14:2010; EN 61158-4-14:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-14: Data-link layer protocol specification – Type 14 elements (IEC 61158-4-14:2010; EN 61158-4-14:2012)
- HRN EN 61158-4-18:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-18: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 18 (IEC 61158-4-18:2010; EN 61158-4-18:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-18: Data-link layer protocol specification – Type 18 elements (IEC 61158-4-18:2010; EN 61158-4-18:2012)
- HRN EN 61158-4-19:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-19: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-4-19:2010; EN 61158-4-19:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-19: Data-link layer protocol specification – Type 19 elements (IEC 61158-4-19:2010; EN 61158-4-19:2012)
- HRN EN 61158-4-21:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-21: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 21 (IEC 61158-4-21:2010; EN 61158-4-21:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-21: Data-link layer protocol specification – Type 21 elements (IEC 61158-4-21:2010; EN 61158-4-21:2012)
- HRN EN 61158-4-2:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-2: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-4-2:2010; EN 61158-4-2:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements (IEC 61158-4-2:2010; EN 61158-4-2:2012)
- HRN EN 61158-4-22:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-22: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 22 (IEC 61158-4-22:2010; EN 61158-4-22:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-22: Data-link layer protocol specification – Type 22 elements (IEC 61158-4-22:2010; EN 61158-4-22:2012)
- HRN EN 61158-4-3:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-3: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 3 (IEC 61158-4-3:2010; EN 61158-4-3:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-3: Data-link layer protocol specification – Type 3 elements (IEC 61158-4-3:2010; EN 61158-4-3:2012)
- HRN EN 61158-5-10:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-10: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 10 (IEC 61158-5-10:2010; EN 61158-5-10:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-10: Application layer service definition – Type 10 elements (IEC 61158-5-10:2010; EN 61158-5-10:2012)

- HRN EN 61158-5-12:2013 en pr  
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Industrial communication networks – Fieldbus specifications – Part 5-12: Application layer service definition – Type 12 elements (IEC 61158-5-12:2010; EN 61158-5-12:2012)
- HRN EN 61158-5-14:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-14: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 14 (IEC 61158-5-14:2010; EN 61158-5-14:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-14: Application layer service definition – Type 14 elements (IEC 61158-5-14:2010; EN 61158-5-14:2012)
- HRN EN 61158-5-15:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-15: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 15 (IEC 61158-5-15:2010; EN 61158-5-15:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-15: Application layer service definition – Type 15 elements (IEC 61158-5-15:2010; EN 61158-5-15:2012)
- HRN EN 61158-5-18:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-18: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 18 (IEC 61158-5-18:2010; EN 61158-5-18:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-18: Application layer service definition – Type 18 elements (IEC 61158-5-18:2010; EN 61158-5-18:2012)
- HRN EN 61158-5-19:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-19: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 19 (IEC 61158-5-19:2010; EN 61158-5-19:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements (IEC 61158-5-19:2010; EN 61158-5-19:2012)
- HRN EN 61158-5-20:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-20: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 20 (IEC 61158-5-20:2010; EN 61158-5-20:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-20: Application layer service definition – Type 20 elements (IEC 61158-5-20:2010; EN 61158-5-20:2012)
- HRN EN 61158-5-21:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-21: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 21 (IEC 61158-5-21:2010; EN 61158-5-21:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-21: Application layer service definition – Type 21 elements (IEC 61158-5-21:2010; EN 61158-5-21:2012)
- HRN EN 61158-5-2:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-2: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 2 (IEC 61158-5-2:2010; EN 61158-5-2:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-2: Application layer service definition – Type 2 elements (IEC 61158-5-2:2010; EN 61158-5-2:2012)
- HRN EN 61158-5-22:2013 en pr  
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Industrial communication networks – Fieldbus specifications – Part 5-22: Application layer service definition – Type 22 elements (IEC 61158-5-22:2010; EN 61158-5-22:2012)
- HRN EN 61158-5-3:2013 en pr  
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Industrial communication networks – Fieldbus specifications – Part 5-3: Application layer service definition – Type 3 elements (IEC 61158-5-3:2010; EN 61158-5-3:2012)
- HRN EN 61158-6-10:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-10: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 10 (IEC 61158-6-10:2010; EN 61158-6-10:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-10: Application layer protocol specification – Type 10 elements (IEC 61158-6-10:2010; EN 61158-6-10:2012)
- HRN EN 61158-6-12:2013 en pr  
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Industrial communication networks – Fieldbus specifications – Part 6-12: Application layer protocol specification – Type 12 elements (IEC 61158-6-12:2010; EN 61158-6-12:2012)
- HRN EN 61158-6-14:2013 en pr  
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- HRN EN 61158-6-15:2013 en pr  
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Industrial communication networks – Fieldbus specifications – Part 6-15: Application layer protocol specification – Type 15 elements (IEC 61158-6-15:2010; EN 61158-6-15:2012)

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Industrial communication networks – Fieldbus specifications – Part 6-18: Application layer protocol specification – Type 18 elements (IEC 61158-6-18:2010; EN 61158-6-18:2012)

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Industrial communication networks – Fieldbus specifications – Part 6-19: Application layer protocol specification – Type 19 elements (IEC 61158-6-19:2010; EN 61158-6-19:2012)

HRN EN 61158-6-20:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-20: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 20 (IEC 61158-6-20:2010; EN 61158-6-20:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-20: Application layer protocol specification – Type 20 elements (IEC 61158-6-20:2010; EN 61158-6-20:2012)

HRN EN 61158-6-21:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-21: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 21 (IEC 61158-6-21:2010; EN 61158-6-21:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-21: Application layer protocol specification – Type 21 elements (IEC 61158-6-21:2010; EN 61158-6-21:2012)

HRN EN 61158-6-2:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-2: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 2 (IEC 61158-6-2:2010; EN 61158-6-2:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-2: Application layer protocol specification – Type 2 elements (IEC 61158-6-2:2010; EN 61158-6-2:2012)

HRN EN 61158-6-22:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-22: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 22 (IEC 61158-6-22:2010; EN 61158-6-22:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-22: Application layer protocol specification – Type 22 elements (IEC 61158-6-22:2010; EN 61158-6-22:2012)

HRN EN 61158-6-3:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-3: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 3 (IEC 61158-6-3:2010; EN 61158-6-3:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-3: Application layer protocol specification – Type 3 elements (IEC 61158-6-3:2010; EN 61158-6-3:2012)

HRN EN 61158-6-9:2013 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-9: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 9 (IEC 61158-6-9:2010; EN 61158-6-9:2012)  
Industrial communication networks – Fieldbus specifications – Part 6-9: Application layer protocol specification – Type 9 elements (IEC 61158-6-9:2010; EN 61158-6-9:2012)

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

HRN EN 61236:2013 en pr  
Rad pod naponom – Sedla, štapovi i njihov pribor (IEC 61236:2010; EN 61236:2011)  
Live working – Saddles, stick clamps and their accessories (IEC 61236:2010; EN 61236:2011)

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

HRN EN 62388:2013 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodski radar – Izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62388:2013; EN 62388:2013)  
Maritime navigation and radiocommunication equipment and systems – Shipborne radar – Performance requirements, methods of testing and required test results (IEC 62388:2013; EN 62388:2013)

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

HRN EN 60255-149:2013 en pr  
Mjerni releji i zaštitna oprema – 149. dio: Funkcionalni zahtjevi za termičke električne releje (IEC 60255-149:2013; EN 60255-149:2013)  
Measuring relays and protection equipment – Part 149: Functional requirements for thermal electrical relays (IEC 60255-149:2013; EN 60255-149:2013)

### **HZN/TO E103, Odašiljačka oprema za radiokomunikacije**

HRN EN 62553:2013 en pr  
Metode mjerenja digitalne mreže – Radne značajke zemaljske prijenosne mreže digitalne multimedije (IEC 62553:2012; EN 62553:2013)  
Methods of measurement for digital network – Performance characteristics of terrestrial digital multimedia transmission network (IEC 62553:2012; EN 62553:2013)

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

HRN EN 50413:2012/A1:2013 en pr  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz - 300 GHz) (EN 50413:2008/A1:2013)  
Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz) (EN 50413:2008/A1:2013)

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

HRN EN 50561-1:2013 en pr  
Uređaji za komunikaciju preko energetskih vodova koji se upotrebljavaju u niskonaponskim instalacijama – Karakteristike radio smetnji – Granice i metode mjerenja – 1. dio: Uređaji za kućnu upotrebu (EN 50561-1:2013)



Power line communication apparatus used in low-voltage installations – Radio disturbance characteristics – Limits and methods of measurement – Part 1: Apparatus for in-home use (EN 50561-1:2013)

#### **HZNTO T4, Normizacija u telekomunikacijama**

HRN EN 301 025-2 V1.5.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – VHF radiotelefonska oprema za opće komunikacije i pridružena oprema za klasu “D” digitalnoga selektivnog poziva (DSC) – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 301 025-2 V1.5.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 301 025-2 V1.5.1:2013)

HRN EN 301 025-3 V1.5.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – VHF radiotelefonska oprema za opće komunikacije i pridružena oprema za klasu “D” digitalnoga selektivnog poziva (DSC) – 3. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.3(e) direktive R&TTE (EN 301 025-3 V1.5.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) – Part 3: Harmonized EN covering the essential requirements of article 3.3(e) of the R&TTE Directive (EN 301 025-3 V1.5.1:2013)

HRN EN 301 444 V1.2.2:2013 en pr  
Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana europska norma, za kopnene pokretne zemaljske postaje (LMES) koje rade u pojasevima od 1,5 GHz i 1,6 GHz za glasovnu i podatkovnu komunikaciju, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE (EN 301 444 V1.2.2:2013)  
Satellite Earth Stations and Systems (SES) – Harmonized EN for Land Mobile Earth Stations (LMES) operating in the 1,5 GHz and 1,6 GHz bands providing voice and/or data communications covering essential requirements of article 3.2 of the R&TTE directive (EN 301 444 V1.2.2:2013)

HRN EN 302 571 V1.2.1:2013 en pr  
Inteligentni prometni sustavi (ITS) – Radiokomunikacijska oprema u frekvencijskom pojasu 5855 MHz do 5925 MHz – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 R&TTE direktive (EN 302 571 V1.2.1:2013)  
Intelligent Transport Systems (ITS) – Radiocommunications equipment operating in the 5855 MHz to 5925 MHz frequency band – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 302 571 V1.2.1:2013)

#### **HZNTO Z2, Ocjenjivanje sukladnosti i akreditacija**

HRN EN ISO/IEC 17067:2013 en pr  
Ocjenjivanje sukladnosti – Osnove certifikacije proizvoda i smjernice za sheme certifikacije proizvoda (ISO/IEC 17067:2013; EN ISO/IEC 17067:2013)  
Conformity assessment – Fundamentals of product certification and guidelines for product certification schemes (ISO/IEC 17067:2013; EN ISO/IEC 17067:2013)

#### **HZNTU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**

HRN EN 131-7:2013 en pr  
Ljestve – 7. dio: Pokretne ljestve s platformom (EN 131-7:2013)  
Ladders – Part 7: Mobile ladders with platform (EN 131-7:2013)

#### **HZNTU I2, Strojarstvo 2**

HRN EN ISO 6165:2013 en pr  
Strojevi za zemljane radove – Osnovni tipovi – Identifikacija, nazivi i definicije (ISO 6165:2012; EN ISO 6165:2012)  
Earth-moving machinery – Basic types – Identification and terms and definitions (ISO 6165:2012; EN ISO 6165:2012)

HRN EN ISO 16851:2013 en pr  
Tekstilne transportne trake – Određivanje neto duljine beskrajne (spojene) transportne trake (ISO 16851:2012; EN ISO 16851:2013)  
Textile conveyor belts – Determination of the net length of an endless (spliced) conveyor belt (ISO 16851:2012; EN ISO 16851:2013)

#### **HZNTU S1, Zdravlje, okoliš i medicinska oprema 1**

HRN EN ISO 21533:2008/Ispr.1:2013 en pr  
Stomatologija – Višekratne štrcaljke s ampulom za intraligamentnu injekciju – Tehnički ispravak 1 (ISO 21533:2003/Cor 1:2009; EN ISO 21533:2003/AC:2009)  
Dentistry – Reusable cartridge syringes intended for intraligamentary injections – Technical Corrigendum 1 (ISO 21533:2003/Cor 1:2009; EN ISO 21533:2003/AC:2009)

HRN EN ISO 21563:2013 en pr  
Stomatologija – Hidrokolooidni materijali za otiske (ISO 21563:2013; EN ISO 21563:2013)  
Dentistry – Hydrocolloid impression materials (ISO 21563:2013; EN ISO 21563:2013)

#### **HZNTU T1, Prijevoz, rukovanje materijalima i pakiranje 1**

HRN EN 3354:2013 en pr  
Nizovi o zrakoplovstvu – Legura titana Ti-6Al-4V – Kaljena – Ploča za superplastično oblikovanje - a = 6 mm (EN 3354:2013)  
Aerospace series – Titanium alloy Ti-6Al-4V – Annealed – Sheet for superplastic forming - a = 6 mm (EN 3354:2013)

HRN EN ISO 3691-1:2012/Ispr.1:2013 en pr  
Industrijski kamioni – Sigurnosni zahtjevi i potvrđivanje – 1. dio: Industrijski kamioni na vlastiti pogon, svi ostali kamioni osim kamiona bez vozača, kamioni s različitim dometom i teretni kamioni – Tehnički ispravak 1 (ISO 3691-1:2011/Cor 1:2013; EN ISO 3691-1:2012/AC:2013)  
Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks – Technical Corrigendum 1 (ISO 3691-1:2011/Cor 1:2013; EN ISO 3691-1:2012/AC:2013)

HRN EN 3813:2013 en pr  
Nizovi o zrakoplovstvu – Legura titana Ti-P64001 (Ti-6Al-4V) – Kaljena – Šipka i žica za kovane stezače - De = 50 mm (EN 3813:2013)  
Aerospace series – Titanium alloy Ti-P64001 (Ti-6Al-4V) – Annealed – Bar and wire for forged fasteners - De = 50 mm (EN 3813:2013)

## HZNTU U1, *Opća elektrotehnika 1*

HRI CLC/TR 50436-3:2013 en pr  
Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 3. dio: Upute za donositelje odluka, kupce i korisnike (CLC/TR 50436-3:2010)  
Alcohol interlocks – Test methods and performance requirements – Part 3: Guidance for decision makers, purchasers and users (CLC/TR 50436-3:2010)

HRN EN 60068-2-57:2013 en pr  
Ispitivanje utjecaja okoliša – Dio 2-57: Ispitivanja – Ff ispitivanje: Vibracije – Metoda vrijeme-povijest (IEC 60068-2-57:2013; EN 60068-2-57:2013)  
Environmental testing – Part 2-57: Tests – Test Ff: Vibration – Time-history and sine-beat method (IEC 60068-2-57:2013; EN 60068-2-57:2013)

HRN EN 60721-2-2:2013 en pr  
Razredba uvjeta okoliša – Dio 2-2: Uvjeti okoliša koji se pojavljuju u prirodi – Oborine i vjetar (IEC 60721-2-2:2012; EN 60721-2-2:2013)  
Classification of environmental conditions – Part 2-2: Environmental conditions appearing in nature – Precipitation and wind (IEC 60721-2-2:2012; EN 60721-2-2:2013)

HRN EN 62321-1:2013 en pr  
Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – 1. dio: Uvod i pregled (IEC 62321-1:2013; EN 62321-1:2013)  
Determination of certain substances in electrotechnical products – Part 1: Introduction and overview (IEC 62321-1:2013; EN 62321-1:2013)

HRN EN 62542:2013 en pr  
Normizacija okoliša za električne i elektroničke proizvode i sustave – Pojmovnik (IEC 62542:2013; EN 62542:2013)  
Environmental standardization for electrical and electronic products and systems – Glossary of terms (IEC 62542:2013; EN 62542:2013)

## 1.2 Nacrti hrvatskih norma

Temeljem Zakona o normizaciji (Narodne novine 80/2013) 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.

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

nHRS ISO/TS 22002-2 hr pp  
Preduvjetni programi za sigurnost hrane – 2. dio: Catering (ISO/TS 22002-2:2013)  
Prerequisite programmes on food safety – Part 2: Catering (ISO/TS 22002-2:2013)

## HZNTO 135, *Nerazorna ispitivanja*

nHRN EN 583-1 hr pp  
Nerazorno ispitivanje – Ispitivanje ultrazvukom – 1. dio: Opća načela (EN 583-1:1998+A1:2003)  
Non-destructive testing – Ultrasonic examination – Part 1: General principles (EN 583-1:1998+A1:2003)

## HZNTO 181, *Sigurnost igračaka i proizvodi za djecu*

nHRN EN 71-1 hr pp  
Sigurnost igračaka – 1. dio: Mehanička i fizikalna svojstva (EN 71-1:2011)

Safety of toys – Part 1: Mechanical and physical properties (EN 71-1:2011)

## HZNTO 238, *Čvrsta biogoriva*

nHRN EN 14588 hr, en pp  
Čvrsta biogoriva – Nazivlje, definicije i opisi (EN 14588:2010)  
Solid biofuels – Terminology, definitions and descriptions (EN 14588:2010)

## HZNTO 546, *Očuvanje kulturne baštine*

nHRN EN 15898 hr pp  
Očuvanje kulturnog dobra – Osnovno nazivlje i definicije (EN 15898:2011)  
Conservation of cultural property – Main general terms and definitions (EN 15898:2011)

## HZNTO 548, *Konstruktivski eurokodovi*

nHRN EN 1993-1-1 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade (EN 1993-1-1:2005+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings (EN 1993-1-1:2005+AC:2009)

nHRN EN 1993-1-10 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-10: Žilavost materijala i svojstva po debljini (EN 1993-1-10:2005+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-10: Material toughness and through-thickness properties (EN 1993-1-10:2005+AC:2009)

nHRN EN 1993-1-11 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-11: Proračun konstrukcija s vlačnim dijelovima (EN 1993-1-11:2006+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-11: Design of structures with tension components (EN 1993-1-11:2006+AC:2009)

nHRN EN 1993-1-12 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-12: Dodatna pravila za proširenje norme EN 1993 na čelike do kvalitete S700 (EN 1993-1-12:2007+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700 (EN 1993-1-12:2007+AC:2009)

nHRN EN 1993-1-2 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-2: Opća pravila – Proračun konstrukcija na djelovanje požara (EN 1993-1-2:2005+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-2: General rules – Structural fire design (EN 1993-1-2:2005+AC:2009)

nHRN EN 1993-1-3 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-3: Opća pravila – Dodatna pravila za hladno oblikovane elemente i limove (EN 1993-1-3:2006+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-3: General rules – Supplementary rules for cold-formed members and sheeting (EN 1993-1-3:2006+AC:2009)

nHRN EN 1993-1-4 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-4: Opća pravila – Dodatna pravila za nehrđajuće čelike (EN 1993-1-4:2006)  
Eurocode 3: Design of steel structures – Part 1-4: General rules – Supplementary rules for stainless steels (EN 1993-1-4:2006)

nHRN EN 1993-1-5 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-5: Pločasti konstrukcijski elementi (EN 1993-1-5:2006+AC:2009)

Eurocode 3: Design of steel structures – Part 1-5: Plated structural elements (EN 1993-1-5:2006+AC:2009)

nHRN EN 1993-1-6 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-6: Čvrstoća i stabilnost ljuskastih konstrukcija (EN 1993-1-6:2007+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-6: Strength and Stability of Shell Structures (EN 1993-1-6:2007+AC:2009)

nHRN EN 1993-1-7 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-7: Pločaste konstrukcije izložene opterećenju izvan ravnine (EN 1993-1-7:2007+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-7: Plated structures subject to out of plane loading (EN 1993-1-7:2007+AC:2009)

nHRN EN 1993-1-8 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-8: Proračun priključaka (EN 1993-1-8:2005+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-8: Design of joints (EN 1993-1-8:2005+AC:2009)

nHRN EN 1993-1-9 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-9: Zamor (EN 1993-1-9:2005+AC:2009)  
Eurocode 3: Design of steel structures – Part 1-9: Fatigue (EN 1993-1-9:2005+AC:2009)

nHRN EN 1993-3-1 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 3-1: Tornjevi, jarboli i dimnjaci – Tornjevi i jarboli (EN 1993-3-1:2006+AC:2009)  
Eurocode 3: Design of steel structures – Part 3-1: Towers, masts and chimneys – Towers and masts (EN 1993-3-1:2006+AC:2009)

nHRN EN 1993-3-2 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 3-2: Tornjevi, jarboli i dimnjaci – Dimnjaci (EN 1993-3-2:2006)  
Eurocode 3: Design of steel structures – Part 3-2: Towers, masts and chimneys – Chimneys (EN 1993-3-2:2006)

### 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 80/2013) 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).

#### HZNTO 6, *Papir, karton i pulpe*

FprEN ISO 535 en  
Paper and board – Determination of water absorptiveness – Cobb method (ISO/FDIS 535:2013)  
Papir i karton – Određivanje upojnosti vode (sposobnosti upijanja vode) – Metoda po Cobbu (ISO/FDIS 535:2013)

#### HZNTO 22, *Cestovna vozila*

prEN ISO 18541-4 en  
Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 4: Conformance test (ISO/DIS 18541-4:2013)  
Cestovna vozila – Standardizirani pristup informacijama za popravak i održavanje vozila (RMI) – 4. dio: Test sukladnosti (ISO/DIS 18541-4:2013)

#### HZNTO 23, *Traktori i strojevi za poljoprivredu i šumarstvo*

prEN ISO 16122-1 en  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 1: General (ISO/DIS 16122-1:2013)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 1. dio: Općenito (ISO/DIS 16122-1:2013)

prEN ISO 16122-2 en  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 2: Horizontal boom sprayers (ISO/DIS 16122-2:2013)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 2. dio: Horizontalne bučne prskalice (ISO/DIS 16122-2:2013)

prEN ISO 16122-3 en  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 3: Vertical boom sprayers, mistblowers and similar (ISO/DIS 16122-3:2013)  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 3. dio: Vertikalne bučne prskalice, zamagljivači i slično (ISO/DIS 16122-3:2013)

#### HZNTO 25, *Ljevarstvo*

prEN 1371-2 en  
Founding – Liquid penetrant testing – Part 2: Investment castings  
Ljevarstvo – Ispitivanje tekućim penetrantima – 2. dio: Odljevci lijevani postupkom s istaljivim modelima

prEN 10360 en  
Hot, warm or cold forgings – Repair conditions prior to delivery  
Toplo, polutoplo ili hladno oblikovani otkivci – Uvjeti popravka prije isporuke

prEN ISO 11970 en  
Specification and approval of welding procedures for production welding of steel castings (ISO/DIS 11970:2013)  
Specifikacija i odobravanje postupaka zavarivanja za proizvodno zavarivanje čeličnih odljevaka (ISO/DIS 11970:2013)

#### HZNTO 28, *Naftni proizvodi i maziva*

EN 14214:2012/FprA1 en  
Liquid petroleum products – Fatty acid methyl esters (FAME) for use in diesel engines and heating applications – Requirements and test methods  
Tekući naftni proizvodi – Metilni esteri masnih kiselina (FAME) za dizelske motore i grijanje – Zahtjevi i metode ispitivanja

prEN 15195 en  
Liquid petroleum products – Determination of ignition delay and derived cetane number (DCN) of middle distillate fuels by combustion in a constant volume chamber  
Tekući naftni proizvodi – Određivanje odgode paljenja i izračunavanje cetanskog broja (DCN) srednje destilatnih goriva izgaranjem u komori konstantnog obujma

prEN 16576 en  
Automotive fuels – Determination of manganese and iron content in middle distillate fuels – Inductively coupled plasma optical emission spectrometry (ICP OES) method  
Goriva za motorna vozila – Određivanje količine mangana i željeza u srednje destilatnim gorivima – Metoda optičke emisijske spektralne analize uz induktivno spregnutu plazmu (ICP-OES)

## **HZNTO 43, Akustika**

- prEN ISO 1683 en  
Acoustics – Preferred reference values for acoustical and vibratory levels (ISO/DIS 1683:2013)  
Akustika – Preporučene referentne vrijednosti za akustičke i vibracijske razine (ISO/DIS 1683:2013)

## **HZNTO 86, Uređaji za hlađenje, klimatizaciju i dizalice topline**

- prEN 378-1 en  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria  
Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 1. dio: Osnovni zahtjevi, definicije, razredba i kriteriji odabira
- prEN 378-2 en  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design; construction, testing, marking and documentation  
Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 2. dio: Projektiranje, izvedba, ispitivanje, označavanje i dokumentacija
- prEN 378-3 en  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site and personal protection  
Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 3. dio: Mjesto instalacije i osobna zaštita
- prEN 378-4 en  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery  
Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 4. dio: Rukovanje, održavanje, popravci i sanacija
- prEN ISO 23953-2 en  
Refrigerated display cabinets – Part 2: Classification, requirements and test conditions (ISO/DIS 23953-2:2013)  
Rashladne vitrine – 2. dio: Razredba, zahtjevi i uvjeti ispitivanja (ISO/DIS 23953-2:2013)

## **HZNTO 120, Koža i obuća**

- prEN ISO 3380 en  
Leather – Physical and mechanical tests – Determination of shrinkage temperature up to 100 degrees C (ISO/DIS 3380:2013)  
Koža – Fizikalna i mehanička ispitivanja – Ispitivanje temperature skupljanja kože do 100 °C (ISO/DIS 3380:2013)
- prEN ISO 5402-2 en  
Leather – Determination of flex resistance – Part 2: Vamp flex method (ISO/DIS 5402-2:2013)  
Koža – Određivanje otpornosti na svijanje – 2. dio: Metoda Vamp savijanja (ISO/DIS 5402-2:2013)
- prEN ISO 14931 en  
Leather – Guide to the selection of leather for apparel (excluding furs) (ISO/DIS 14931:2013)  
Koža – Upute za odabir kože za odjeću (isključujući krzna) (ISO/DIS 14931:2013)
- prEN ISO 15701 en  
Leather – Tests for colour fastness – Colour fastness to migration into polymeric material (ISO/DIS 15701:2013)  
Koža – Ispitivanja postojanosti obojenja – Postojanost obojenja na migraciju u polimerni materijal (ISO/DIS 15701:2013)

- prEN 15987 en  
Leather – Terminology – Key definitions for the leather trade  
Koža – Nazivlje – Ključne definicije za trgovinu kožom
- prEN ISO 17235 en  
Leather – Physical and mechanical tests – Determination of softness (ISO/DIS 17235:2013)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje mekoće (ISO/DIS 17235:2013)

## **HZNTO 121, Anestetička i respiracijska oprema**

- EN 1789:2007+A1:2010/prA2 en  
Medical vehicles and their equipment – Road ambulances  
Medicinski automobili i njihova oprema – Cestovni medicinski automobili

## **HZNTO 136, Namještaj**

- EN 12720:2009+A1:2013 en  
Furniture – Assessment of surface resistance to cold liquids  
Namještaj – Procjena otpornosti površine prema hladnim tekućinama
- EN 12721:2009+A1:2013 en  
Furniture – Assessment of surface resistance to wet heat  
Namještaj – Procjena otpornosti površine prema toplini s vlagom
- EN 12722:2009+A1:2013 en  
Furniture – Assessment of surface resistance to dry heat  
Namještaj – Procjena otpornosti površine prema toplini bez vlage

## **HZNTO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

- FprEN 1329-1 en  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes, fittings and the system  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi, spojnice i sustav
- prEN ISO 9967 en  
Thermoplastics pipes – Determination of creep ratio (ISO/DIS 9967:2013)  
Plastomerne cijevi – Određivanje omjera puzanja (ISO/DIS 9967:2013)
- prEN ISO 9969 en  
Thermoplastics pipes – Determination of ring stiffness (ISO/DIS 9969:2013)  
Plastomerne cijevi – Određivanje obodne krutosti (ISO/DIS 9969:2013)
- FprCEN/TS 14578 en  
Plastics piping systems for water supply or drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP) – Recommended practice for installation  
Plastični cijevni sustavi za opskrbu vodom ili odvodnju i kanalizaciju – Staklom ojačani duromeri (GRP) na osnovi nezasićenih poliesterskih smola (UP) – Preporuke za ugradnju
- FprCEN/TS 14807 en  
Plastics piping systems – Glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP) – Guidance for the structural analysis of buried GRP-UP pipelines

Plastični cijevni sustavi – Staklom ojačani duromeri (GRP) na osnovi nezasićenih poliesterskih smola (UP) – Smjernice za strukturnu analizu podzemnih GRP-UP cjevovoda

EN 15383:2012+A1:2013 en

Plastics piping systems for drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) based on polyester resin (UP) – Manholes and inspection chambers

Plastični cijevni sustavi za odvodnju i kanalizaciju – Staklom ojačana duromerna plastika (GRP) na osnovi poliestera (UP) – Kontrolna okna i kontrolne komore

prEN ISO 15494 en

Plastics piping systems for industrial applications – Polybutene (PB), polyethylene (PE) and polypropylene (PP) – Specifications for components and the system – Metric series (ISO/DIS 15494:2013) Plastični cijevni sustavi za industrijske primjene – Polibuten (PB), polietilen (PE) i polipropilen (PP) – Specifikacije za sastavnice i sustav – Metrički nizovi (ISO/DIS 15494:2013)

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

ISO 6107-2:2006/Amd 1:2012 en

Water quality – Vocabulary – Part 2

Kvaliteta vode – Terminološki rječnik – 2. dio

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

prEN 338 en

Structural timber – Strength classes

Konstruktivno drvo – Razredi čvrstoće

prEN 384 en

Structural timber – Determination of characteristic values of mechanical properties and density Drvene konstrukcije – Određivanje karakterističnih vrijednosti mehaničkih svojstava i gustoće

prEN 14358 en

Timber structures – Calculation of characteristic 5-percentile and mean values for the purpose of initial type testing and factory production control Drvene konstrukcije – Proračun karakterističnih 5-postotnih i srednjih vrijednosti u svrhu početnog ispitivanja tipa i kontrole tvorničke proizvodnje

### **HZN/TO 184, Sustavi industrijske automatizacije i integracija**

FprCEN/TS 16658 en

Requirements for establishing manufacturing enterprise process interoperability – Maturity model for assessing enterprise interoperability

Zahtjevi za uspostavu međuoperativnosti procesa proizvodnih poduzeća – Model zrelosti za procjenu međuoperativnosti poduzeća

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

FprEN ISO 10693 en

Soil quality – Determination of carbonate content – Volumetric method (ISO 10693:1995)

Kvaliteta tla – Određivanje sadržaja karbonata – Volumetrijska metoda (ISO 10693:1995)

prEN ISO 11074 en

Soil quality – Vocabulary (ISO/DIS 11074:2013)

FprEN ISO 11272 en

Soil quality – Determination of dry bulk density (ISO 11272:1998)

Kvaliteta tla – Određivanje volumne gustoće suhog tla (ISO 11272:1998)

FprEN ISO 11274 en

Soil quality – Determination of the water-retention characteristic – Laboratory methods (ISO 11274:1998+Cor 1:2009)

Kvaliteta tla – Određivanje sposobnosti zadržavanja vode – Laboratorijske metode (ISO 11274:1998+Cor 1:2009)

FprEN ISO 11275 en

Soil quality – Determination of unsaturated hydraulic conductivity and water-retention characteristic – Wind's evaporation method (ISO 11275:2004)

Kvaliteta tla – Određivanje hidraulične vodljivosti nesaturiranog tla i retencije vode – Windova metoda evaporacije (ISO 11275:2004)

FprEN ISO 11276 en

Soil quality – Determination of pore water pressure – Tensiometer method (ISO 11276:1995)

Kvaliteta tla – Određivanje tlaka vode u porama – Tenziometrijska metoda (ISO 11276:1995)

FprEN ISO 11461 en

Soil quality – Determination of soil water content as a volume fraction using coring sleeves – Gravimetric method (ISO 11461:2001)

Kvaliteta tla – Određivanje volumnog sadržaja vode u tlu pomoću cilindara za uzimanje uzoraka – Gravimetrijska metoda (ISO 11461:2001)

FprEN ISO 11508 en

Soil quality – Determination of particle density (ISO 11508:1998)

Kvaliteta tla – Određivanje gustoće čvrstih čestica (ISO 11508:1998)

EN ISO 14238:2013 en

Soil quality – Biological methods – Determination of nitrogen mineralization and nitrification in soils and the influence of chemicals on these processes (ISO 14238:2012)

Kvaliteta tla – Biološke metode – Određivanje mineralizacije dušika i nitrifikacije u tlima i utjecaja kemikalija na ove procese (ISO 14238:2012)

prEN ISO 16198 en

Soil quality – Plant-based biotest to assess the environmental bioavailability of trace elements to plants (ISO/DIS 16198:2013)

prEN ISO 16558-1 en

Soil quality – Risk based petroleum hydrocarbons – Part 1: Determination of aliphatic and aromatic fractions of volatile petroleum hydrocarbons using gas chromatography (static headspace method) (ISO/DIS 16558-1:2013)

prEN ISO 16558-2 en

Soil quality – Risk-based petroleum hydrocarbons – Part 2: Determination of aliphatic and aromatic fractions of semi-volatile petroleum hydrocarbons using gas chromatography with flame ionisation detection (GC/FID) (ISO/DIS 16558-2:2013)

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

EN 118:2013 en

Wood preservatives – Determination of preventive action against Reticulitermes species (European termites) (Laboratory method)

Sredstva za zaštitu drva – Određivanje preventivnog djelovanja protiv Reticulitermes vrsta (Europskih termita) (laboratorijska metoda)

EN 599-1:2009/FprA1 en

Durability of wood and wood-based products – Efficacy of preventive wood preservatives as determined by biological tests – Part 1: Specification according to use class

Trajnost drva i proizvoda na osnovi drva – Učinkovitost sredstava za preventivnu zaštitu drva određenu biološkim ispitivanjima – 1. dio: Specifikacija u skladu s uporabnim razredom

prEN 839 en  
Wood preservatives – Determination of the protective effectiveness against wood destroying basidiomycetes – Application by surface treatment  
Sredstva za zaštitu drva – Određivanje učinkovitosti zaštite protiv razarača drva iz odjeljka basidiomycetes – Primjena površinskim tretmanom

### **HZN/TO 238, Čvrsta biogoriva**

prEN ISO 16993 en  
Solid biofuels – Conversion of analytical results from one basis to another (ISO/DIS 16993:2013)  
Čvrsta biogoriva – Preračun iskaza rezultata analiza (ISO/DIS 16993:2013)

prEN ISO 16994 en  
Solid biofuels – Determination of total content of sulphur and chlorine (ISO/DIS 16994:2013)  
Čvrsta biogoriva – Utvrđivanje ukupnog udjela sumpora i klora (ISO/DIS 16994:2013)

prEN ISO 16995 en  
Solid biofuels – Determination of the water soluble content of chloride, sodium and potassium (ISO/DIS 16995:2013)  
Čvrsta biogoriva – Utvrđivanje u vodi otopljenih udjela klora, natrija i kalija (ISO/DIS 16995:2013)

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

prEN 1396 en  
Aluminium and aluminium alloys – Coil coated sheet and strip for general applications – Specifications  
Aluminij i aluminijeve legure – Prevlakom zaštićeni limovi i trake u kolutu za opće namjene – Specifikacije

prEN 1559-4 en  
Founding – Technical conditions of delivery – Part 4: Additional requirements for aluminium alloy castings  
Ljevarstvo – Tehnički uvjeti isporuke – 4. dio: Dodatni zahtjevi za odljevke od aluminijevih legura

prEN 10028-7 en  
Flat products made of steels for pressure purposes – Part 7: Stainless steels  
Plosnati proizvodi od čelika za tlačne namjene – 7. dio: Nehrđajući čelici

prEN 10106 en  
Cold rolled non-oriented electrical steel sheet and strip delivered in the fully processed state  
Hladno valjani neusmjereni čelični elektrolim i traka isporučeni u potpuno obrađeno stanju

prEN 10272 en  
Stainless steel bars for pressure purposes  
Šipke od nehrđajućeg čelika za tlačne namjene

prEN 10273 en  
Hot rolled weldable steel bars for pressure purposes with specified elevated temperature properties  
Toplo valjane zavarive čelične šipke za tlačne namjene s utvrđenim svojstvima pri povišenim temperaturama

prEN 10303 en  
Thin magnetic steel sheet and strip for use at medium frequencies  
Tanki čelični elektrolim i traka za upotrebu kod srednjih frekvencija

prEN 10314 en  
Method for the derivation of minimum values of proof strength of steel at elevated temperatures  
Postupak određivanja najmanjih vrijednosti granice razvlačenja čelika pri povišenim temperaturama

prEN 15063-1 en  
Copper and copper alloys – Determination of main constituents and impurities by wavelength dispersive X-ray fluorescence spectrometry (XRF) – Part 1: Guidelines to the routine method

Bakar i legure bakra – Određivanje glavnih konstituenata i nečistoća disperzivnom rendgenskom fluorescentnom spektrometrijom (XRF) – 1. dio: Smjernice za rutinsku metodu

### **HZN/TO 509, Cestovna oprema**

prEN 12767 en  
Passive safety of support structures for road equipment – Requirements and test methods  
Pasivna sigurnost nosača cestovne opreme – Zahtjevi i ispitne metode

prEN 12966 en  
Road vertical signs – Variable message traffic signs  
Vertikalna prometna signalizacija – Promjenjivi prometni znakovi

EN 13197:2011/FprA1 en  
Road marking materials – Wear simulator Turntable  
Materijali za oznake na kolniku – Rotacijski simulator trošenja

prEN 14389-1 en  
Road traffic noise reducing devices – Procedures for assessing long term performance – Part 1: Acoustical elements  
Barijere za zaštitu od buke s cesta – Postupci za procjenjivanje dugoročne učinkovitosti – 1. dio: Akustična svojstva

prEN 14389-2 en  
Road traffic noise reducing devices – Procedures for assessing long term performance – Part 2: Non-acoustical characteristics  
Barijere za zaštitu od buke s cesta – Postupci za procjenjivanje dugoročne učinkovitosti – 2. dio: Neakustična svojstva

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

prEN ISO 12855 en  
Electronic fee collection – Information exchange between service provision and toll charging (ISO/DIS 12855:2013)  
Elektronička naplata – Razmjena informacija između pružanja usluge i naplate cestarine (ISO/DIS 12855:2013)

CEN ISO/TS 13140-1:2011 en  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 13141 – Part 1: Test suite structure and test purposes (ISO/TS 13140-1:2011)  
Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom ISO/TS 13141 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 13140-1:2011)

CEN ISO/TS 13143-1:2011 en  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 12813 – Part 1: Test suite structure and test purposes (ISO/TS 13143-1:2011)  
Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s ISO/TS 12813 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 13143-1:2011)

CEN/TS 13149-8:2013 en  
Public transport – Road vehicle scheduling and control systems – Part 8: Physical layer for IP communication  
Javni prijevoz – Raspored vožnje cestovnih vozila i kontrolni sustavi – 8. dio: Fizički sloj za IP komunikaciju

EN ISO 14906:2011/prA1 en  
Electronic fee collection – Application interface definition for dedicated short-range communication (ISO 14906:2011/DAM 1:2013)

- Elektronička naplata – Definicije programskih sučelja za dodijeljeno kratkovalno područje komunikacije (ISO 14906:2011/DAM 1:2013)
- prEN ISO 15007-1 en  
Road vehicles – Measurement of driver visual behaviour with respect to transport information and control systems – Part 1: Definitions and parameters (ISO/DIS 15007-1:2013)  
Cestovna vozila – Mjerenje vizualnog ponašanja vozača u odnosu na transportne informacije i upravljačke sustave – 1. dio: Definicije i parametri (ISO/DIS 15007-1:2013)
- prEN 15531-1 en  
Public transport – Service interface for real-time information relating to public transport operations – Part 1: Context and framework  
Javni prijevoz – Sučelje servisa za informiranje o statusu javnoga prijevoza u realnom vremenu – 1. dio: Okruženje i okvir
- prEN 15531-2 en  
Public transport – Service interface for real-time information relating to public transport operations – Part 2: Communications  
Javni prijevoz – Sučelje servisa za informiranje o statusu javnoga prijevoza u realnom vremenu – 2. dio: Komunikacije
- prEN 15531-3 en  
Public transport – Service interface for real-time information relating to public transport operations – Part 3: Functional service interfaces  
Javni prijevoz – Sučelje servisa za informiranje o statusu javnoga prijevoza u realnom vremenu – 3. dio: Funkcionalno sučelje servisa
- ISO 15623:2013 en  
Intelligent transport systems – Forward vehicle collision warning systems – Performance requirements and test procedures  
Inteligentni transportni sustavi – Sustav upozorenja od naleta vozila – Zahtijevane značajke i ispitni postupci
- CEN/TR 16092:2011 en  
Electronic fee collection – Requirements for pre-payment systems  
Elektronička naplata – Zahtjevi za sustav plaćanja unaprijed
- CEN/TR 16152:2011 en  
Electronic fee collection – Personalisation and mounting of first mount OBE  
Elektronička naplata – Individualizacija i ugradnja opreme za prvu ugradnju u vozilu
- FprCEN/TS 16157-4 en  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 4: Variable Message Sign (VMS) Publications  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 4. dio: Objave za znakove promjenljive obavijesti (VMS)
- FprCEN/TS 16157-5 en  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 5: Measured and elaborated data publications  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 5. dio: Objave za izmjerene i obrađene podatke
- FprCEN/TS 16614-1 en  
Public transport – Network and Timetable Exchange (NeTEx) – Part 1: Public transport network topology exchange format
- Javni prijevoz – Razmjena podataka o mreži i redovima vožnje (NeTEx) – 1. dio: Format za razmjenu podataka o topologiji mreže javnog prijevoza
- FprCEN/TS 16614-2 en  
Public transport – Network and Timetable Exchange (NeTEx) – Part 2: Public transport scheduled timetables exchange format  
Javni prijevoz – Razmjena podataka o mreži i redovima vožnje (NeTEx) – 2. dio: Format za razmjenu podataka o redovima vožnje javnog prijevoza
- FprCEN ISO/TS 17427 en  
Intelligent transport systems – Co-operative systems – Roles and responsibilities in the context of co-operative ITS based on architecture(s) for co-operative systems (ISO/DTS 17427:2013)  
Inteligentni transportni sustavi – Kooperativni sustavi – Uloge i odgovornosti kooperativnih sustava unutar ITS arhitekture(a) utemeljenih na kooperaciji (ISO/DTS 17427:2013)
- prEN ISO 17575-1 en  
Electronic fee collection – Application interface definition for autonomous systems – Part 1: Charging (ISO/DIS 17575-1:2013)  
Elektronička naplata – Definicija programskog sučelja za autonomne sustave – 1. dio: Naplaćivanje (ISO/DIS 17575-1:2013)
- CEN ISO/TS 18234-1:2013 en  
Intelligent transport systems – Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format – Part 1: Introduction, numbering and versions (TPEG1-INV) (ISO/TS 18234-1:2013)  
Inteligentni transportni sustavi – Informacije o prometu i putovanju kroz protokol ekspertne skupine za transport, generacija 1 (TPEG1) binarni format podataka – 1. dio: Uvod, numeriranje i verzije (TPEG1-INV) (ISO/TS 18234-1:2013)
- CEN ISO/TS 18234-2:2013 en  
Intelligent transport systems – Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format – Part 2: Syntax, semantics and framing structure (TPEG1-SSF) (ISO/TS 18234-2:2013)  
Inteligentni transportni sustavi – Informacije o prometnu i putovanju kroz protokol ekspertne skupine za transport, generacija 1 (TPEG1) binarni format podataka – 2. dio: Sintaksa, semantika i okvirna struktura (TPEG1-SSF) (ISO/TS 18234-2:2013)
- CEN ISO/TS 18234-7:2013 en  
Intelligent transport systems – Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format – Part 7: Parking information (TPEG1-PKI) (ISO/TS 18234-7:2013)  
Inteligentni transportni sustavi – Informacije o prometu i putovanju kroz protokol ekspertne skupine za transport, generacija 1 (TPEG1) binarni format podataka – 7. dio: Informacija o parkiranju (TPEG1-PKI) (ISO/TS 18234-7:2013)
- CEN ISO/TS 18234-9:2013 en  
Intelligent transport systems – Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format – Part 9: Traffic event compact (TPEG1-TEC) (ISO/TS 18234-9:2013)  
Inteligentni transportni sustavi – Informacije o prometu i putovanju kroz protokol ekspertne skupine za transport, generacija 1 (TPEG1) binarni format podataka – 9. dio: Događanja u prometu (ISO/TS 18234-9:2013)

- CEN ISO/TS 18234-10:2013 en  
Intelligent transport systems – Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format – Part 10: Conditional access information (TPEG1-CAI) (ISO/TS 18234-10:2013)  
Inteligentni transportni sustavi – Informacije o prometu i putovanju kroz protokol ekspertne skupine za transport, generacija 1 (TPEG1) binarni format podataka – 10. dio: Uvjetovani pristup informaciji (TPEG1-CAI) (ISO/TS 18234-10:2013)
- CEN ISO/TR 24014-2:2013 en  
Public transport – Interoperable fare management system – Part 2: Business practices (ISO/TR 24014-2:2013)  
Javni prijevoz – Interoperabilan sustav upravljanja naplatom – 2. dio: Poslovna praksa (ISO/TR 24014-2:2013)
- prEN ISO 24534-3 en  
Intelligent transport systems – Automatic vehicle and equipment identification – Electronic registration identification (ERI) for vehicles – Part 3: Vehicle data (ISO/DIS 24534-3:2013)  
Inteligentni transportni sustavi – Automatska identifikacija vozila i opreme – Identifikacija elektroničke registracije (ERI) vozila – 3. dio: Podaci o vozilu (ISO/DIS 24534-3:2013)

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

- FprCEN/TS 15963 en  
Bitumen and bituminous binders – Determination of the fracture toughness temperature by a three point bending test on a notched specimen  
Bitumen i bitumenska veziva – Određivanje temperature lomne žilavosti ispitivanjem savijanja u tri točke na zarezanom uzorku

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

- prEN 13129 en  
Railway applications – Air conditioning for main line rolling stock – Comfort parameters and type tests  
Oprema za željeznice – Klimatizacija željezničkih vozila za regionalni promet – Parametri udobnosti i tipna ispitivanja
- prEN 13232-1 en  
Railway applications – Track – Switches and crossings for Vignole rails – Part 1: Definitions  
Oprema za željeznice – Željeznički gornji ustroj – Skretnice i križišta s Vignolovim tračnicama – Definicije
- prEN 16186-2 en  
Railway applications – Driver's cab – Part 2: Integration of displays, controls and indicators  
Oprema za željeznice – Upravljačnica – 2. dio: Integracija zaslona, upravljačkih uređaja i pokazivača
- FprCEN/TS 16635 en  
Railway application – Design for PRM Use – Equipment and Components onboard Rolling Stock – Toilets  
Oprema za željeznice – Konstrukcije namijenjene uporabi osoba smanjene pokretljivosti – Oprema i dijelovi ugrađeni na željeznička vozila – Zahodi
- prEN 16683 en  
Railway applications – Call for aid and communication device – Requirements  
Oprema za željeznice – Poziv za pomoć i komunikacijski uređaj – Zahtjevi

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

- prEN ISO 4895 en  
Plastics – Liquid epoxy resins – Determination of tendency to crystallize (ISO/DIS 4895:2013)  
Plastika – Kapljevite epoksidne smole – Određivanje sklonosti kristaliziranju (ISO/DIS 4895:2013)

- prEN ISO 8030 en  
Rubber and plastics hoses – Method of test for flammability (ISO/DIS 8030:2013)  
Gumena i plastična crijeva – Metoda ispitivanja gorivosti (ISO/DIS 8030:2013)
- prEN ISO 13927 en  
Plastics – Simple heat release test using a conical radiant heater and a thermopile detector (ISO/DIS 13927:2013)  
Plastika – Jednostavno ispitivanja oslobađanja topline stožastim radijacijskim grijalom i detektorom s termoelementom (ISO/DIS 13927:2013)
- prEN ISO 15512 en  
Plastics – Determination of water content (ISO/DIS 15512:2013)  
Plastika – Određivanje sadržaja vode (ISO/DIS 15512:2013)
- FprCEN/TS 16650 en  
Specification for hose couplings for petrol, oil and lubricants – High pressure couplings  
Specifikacija priključaka za crijeva za goriva, ulja i maziva – Visokotlačni priključci
- prEN ISO 19065-1 en  
Plastics – Acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and acrylonitrile-(chlorinated polyethylene)-styrene (ACS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 19065-1:2013)  
Plastika – Akrlonitril-stiren-akrilat (ASA), akrilonitril-etilen-propilen-dien-stiren (AEPDS) i akrilonitril-(klorirani polietilen)-stiren (ACS) materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označavanja i osnove specifikacija (ISO/DIS 19065-1:2013)
- prEN ISO 19066-1 en  
Plastics – Methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 19066-1:2013)  
Plastika – Metil metakrilat-akrlonitril-butadien-stiren (MABS) materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označavanja i osnove specifikacija (ISO/DIS 19066-1:2013)
- prEN ISO 19069-1 en  
Plastics – Polypropylene (PP) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 19069-1:2013)  
Plastika – Polipropilen (PP) materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označavanja i osnove specifikacija (ISO/DIS 19069-1:2013)
- prEN ISO 22007-2 en  
Plastics – Determination of thermal conductivity and thermal diffusivity – Part 2: Transient plane heat source (hot disc) method (ISO/DIS 22007-2:2013)  
Plastika – Određivanje toplinske vodljivosti i toplinske difuzivnosti – 2. dio: Metoda kratkotrajnoga površinskog izvora topline (vruća ploča) (ISO/DIS 22007-2:2013)

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

- FprCEN/TS 15901-15 en  
Road and airfield surface characteristics – Part 15: Procedure for determining the skid resistance of a pavement surface using a device with longitudinal controlled slip (LFCI): The IMAG  
Površinska svojstva cesta i aerodromskih operativnih površina – 15 dio: Postupak za određivanje otpornosti na klizanje površine kolnika uporabom uređaja s uzdužno kontroliranim klizanjem (LFCI): IMAG



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

- prEN 13616-1 en  
Overfill prevention devices for static tanks for liquid fuels – Requirements and test/assessment methods – Part 1: Overfill prevention devices with closure device  
Uređaji za sprječavanje prepunjenosti nepomičnih spremnika za tekuća naftna goriva – Zahtjevi i metode ispitivanja/ocjenjivanja – 1. dio: Uređaji za sprječavanje prepunjenosti s uređajem za zatvaranje
- prEN 13616-2 en  
Overfill prevention devices for static tanks for liquid fuels – Requirements and test/assessment methods – Part 2: Overfill prevention devices without closure device  
Uređaji za sprječavanje prepunjenosti nepomičnih spremnika za tekuća naftna goriva – Zahtjevi i metode ispitivanja/ocjenjivanja – 2. dio: Uređaji za sprječavanje prepunjenosti bez uređaja za zatvaranje
- prEN 16657 en  
Tanks for the transport of dangerous goods – Transport tank equipment for overfill prevention devices for static tanks  
Spremnici za prijevoz opasnih tvari – Oprema za uređaje za sprječavanje prepunjenosti nepomičnih spremnika
- prEN ISO 20421-2 en  
Cryogenic vessels – Large transportable vacuum-insulated vessels – Part 2: Operational requirements (ISO/DIS 20421-2:2013)  
Kriogenične posude – Velike prijevozne posude izolirane vakuumom – 2. dio: Pogonski zahtjevi (ISO/DIS 20421-2:2013)
- prEN ISO 21009-2 en  
Cryogenic vessels – Static vacuum insulated vessels – Part 2: Operational requirements (ISO/DIS 21009-2:2013)  
Kriogenične posude – Nepomične posude izolirane vakuumom – 2. dio: Pogonski zahtjevi (ISO/DIS 21009-2:2013)

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

- prEN 12488 en  
Glass in buildings – Glazing recommendations – Assembly principles for vertical and sloping glazing  
Staklo u graditeljstvu – Preporuke za ostakljenje – Načela izvedbe za vertikalno i koso ostakljenje

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

- EN 12828:2012/FprA1 en  
Heating systems in buildings – Design for water-based heating systems  
Sustavi grijanja u zgradama – Izvedba sustava toplovodnog grijanja
- FprEN ISO 16484-5 en  
Building automation and control systems (BACS) – Part 5: Data communication protocol (ISO/FDIS 16484-5:2013)  
Digitalni sustavi upravljanja u zgradama (BACS) – 5. dio: Podatkovni komunikacijski protokol (ISO/FDIS 16484-5:2013)
- FprEN ISO 16484-6 en  
Building automation and control systems (BACS) – Part 6: Data communication conformance testing (ISO/FDIS 16484-6:2013)  
Upravljanje u zgradarstvu i upravljački sustavi (BACS) – 6. dio: Ispitivanje sukladnosti podatkovne komunikacije (ISO/FDIS 16484-6:2013)

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

- FprCEN/TR 13201-1 en  
Road lighting – Part 1: Guidelines on selection of lighting classes  
Cestovna rasvjeta – 1. dio: Smjernice za odabir razreda rasvjete
- prEN 13201-2 en  
Road lighting – Part 2: Performance requirements  
Cestovna rasvjeta – 2. dio: Zahtijevana svojstva
- prEN 13201-3 en  
Road lighting – Part 3: Calculation of performance  
Cestovna rasvjeta – 3. dio: Proračun svojstava
- prEN 13201-4 en  
Road lighting – Part 4: Methods of measuring lighting performance  
Cestovna rasvjeta – 4. dio: Metode mjerenja svojstava rasvjete
- prEN 13201-5 en  
Road lighting – Energy performance indicators  
Cestovna rasvjeta – Pokazatelji za energetska svojstva

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

- prEN 124-1 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 1: Classification, general design, performance and testing requirements, test methods and evaluation of conformity  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 1. dio: Razredba, opće projektiranje, svojstva i ispitni zahtjevi, metode ispitivanja i vrednovanje sukladnosti
- prEN 124-2 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 2: Gully tops and manhole tops made of cast iron  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 2. dio: Poklopci za slivnike i kontrolna okna izrađeni od ljevanog željeza
- prEN 124-3 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 3: Gully tops and manhole tops made from steel or aluminium alloy  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 3. dio: Poklopci za slivnike i kontrolna okna izrađeni od čelika ili aluminijske legure
- prEN 124-4 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 4: Gully tops and manhole tops made of steel reinforced concrete  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 4. dio: Poklopci za slivnike i kontrolna okna izrađeni od čelikom armiranog betona
- prEN 124-5 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 5: Gully tops and manhole tops made of composite  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 5. dio: Poklopci za slivnike i kontrolna okna izrađeni od kompozitnih materijala
- prEN 124-6 en  
Gully tops and manhole tops for vehicular and pedestrian areas – Part 6: Gully tops and manhole tops made of Polypropylene (PP), Polypropylene with mineral modifiers (PP-MD), Polyethylene (PE) or Polyvinyl-chloride (PVC-U)  
Poklopci za slivnike i kontrolna okna za prometne i pješačke površine – 6. dio: Poklopci za slivnike i kontrolna okna izrađeni od polipropilena (PP), polipropilena s mineralnim modifikatorima (PP-MD), polietilena (PE) ili poli(vinil-klorida) (PVC-U)

- prEN 1253-1 en  
Gullies for buildings – Part 1: Trapped floor gullies with a depth water seal of at least 50 mm  
Odvodi za zgrade – 1. dio: Slivnik s taložnicom i sifonom s vodenim stupcem najmanje visine od 50 mm
- prEN 1253-2 en  
Gullies for buildings – Part 2: Roof drains and floor gullies without trap  
Odvodi za zgrade – 2. dio: Krovni odvodi i podni slivnici bez taložnica
- prEN 16506 en  
Systems for renovation of drains and sewers – Lining with a rigidly anchored plastics inner layer (RAPL)

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

- prEN ISO/IEC 80369-20 en  
Small-bore connectors for liquids and gases in healthcare applications – Part 20: Common test methods (ISO/DIS 80369-20:2013)  
Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 20. dio: Opće ispitne metode (ISO/DIS 80369-20:2013)

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

- prEN 458 en  
Hearing protectors – Recommendations for selection, use, care and maintenance – Guidance document  
Štitnici sluha – Preporuke za odabir, uporabu, njegu i održavanje – Upute
- prEN ISO 12312-2 en  
Eye and face protection – Sunglasses and related eyewear – Part 2: Filters for direct observation of the sun (ISO/DIS 12312-2:2013)  
Zaštita očiju i lica – Sunčane naočale i očna pomagala – 2. dio: Filteri za izravno promatranje sunca (ISO/DIS 12312-2:2013)

### **HZN/TO 557, Zaštitna odjeća**

- prEN 13911 en  
Protective clothing for firefighters – Requirements and test methods for fire hoods for firefighters  
Zaštitna odjeća za vatrogasce – Zahtjevi i ispitne metode za vatrogasne potkape za vatrogasce

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

- FprEN ISO 13934-2 en  
Textiles – Tensile properties of fabrics – Part 2: Determination of maximum force using the grab method (ISO/FDIS 13934-2:2013)  
Tekstil – Vlačna svojstva plošnog tekstila – 2. dio: Određivanje maksimalne sile grab metodom (ISO/FDIS 13934-2:2013)
- FprEN ISO 13935-1 en  
Textiles – Seam tensile properties of fabrics and made-up textile articles – Part 1: Determination of maximum force to seam rupture using the strip method (ISO/FDIS 13935-1:2013)  
Tekstil – Vlačna svojstva šava na plošnom tekstu i gotovim tekstilnim proizvodima – 1. dio: Određivanje maksimalne sile pucanja šava metodom trake (ISO/FDIS 13935-1:2013)
- prEN ISO 18103 en  
Superfine woven wool fabric labelling – Requirements for Super S code definition (ISO/DIS 18103:2013)  
Označavanje finih vunjenih tkanina – Zahtjevi za definiciju Super S koda (ISO/DIS 18103:2013)

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

- FprEN 12252 en  
LPG equipment and accessories – Equipping of LPG road tankers  
Oprema i pribor za UNP – Opremanje spremnika za UNP za cestovna vozila
- FprCEN/TR 14473 en  
Transportable gas cylinders – Porous materials for acetylene cylinders  
Prenosive plinske boce – Porozni materijali za boce za acetilen

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

- prEN 50216-4:2013 en  
Power transformer and reactor fittings – Part 4: Basic accessories (earthing terminal, drain and filling devices, thermometer pocket, wheel assembly)  
Oprema za energetske transformatore i prigušnice – 4. dio: Osnovni pribor (priključak za uzemljenje, uređaji za punjenje i odzračivanje, džep za termometar, kotači)
- FprEN 50588-1:2013 en  
Medium voltage transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements  
Trofazni transformatori srednjeg napona, 50 Hz, najvećeg napona opreme do 36 kV – 1. dio: Opći zahtjevi
- FprEN 60076-10:2013 en  
Power transformers – Part 10: Determination of sound levels (IEC 60076-10:201X)  
Energetski transformatori – 10. dio: Određivanje zvučnih razina (IEC 60076-10:201X)
- FprEN 60214-1:2013 en  
Tap-changers – Part 1: Performance requirements and test methods (IEC 60214-1:201X)  
Regulacijske sklopke – 1. dio: Izvedbeni zahtjevi i metode ispitivanja (IEC 60214-1:201X)

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

- FprEN 60455-2:2012 en  
Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:201X)  
Reaktivne mješavine na bazi smola koje se upotrebljavaju za električnu izolaciju – 2. dio: Metode ispitivanja (IEC 60455-2:201X)
- EN 60626-1:2012 en  
Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements (IEC 60626-1:2009)  
Kombinirani savitljivi materijali za električne izolacije – 1. dio: Definicije i opći zahtjevi (IEC 60626-1:2009)
- EN 60626-2:2009 en  
Combined flexible materials for electrical insulation – Part 2: Methods of test (IEC 60626-2:2009)  
Kombinirani savitljivi materijali za električne izolacije – 2. dio: Metode ispitivanja (IEC 60626-2:2009)
- EN 60674-3-1:1998/A1:2011 en  
Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Biaxially oriented polypropylene (PP) film for capacitors (IEC 60674-3-1:1998/am1:2011)  
Plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 1. list: Dvoosno orijentirana polipropilenska folija za kondenzatore (IEC 60674-3-1:1998/am1:2011)

- EN 60674-3-8:2011 en  
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)  
Plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 8. list: Folije od uravnoteženog dvoosno orijentiranog polietilen naftalata (PEN) za električnu izolaciju (IEC 60674-3-8:2011)
- EN 60684-2:2011 en  
Flexible insulating sleeving – Part 2: Methods of test (IEC 60684-2:2011)  
Savitljive izolacijske navlake – 2. dio: Metode ispitivanja (IEC 60684-2:2011)
- EN 60684-3-116:2011 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheets 116 and 117: Extruded polychloroprene, general purpose (IEC 60684-3-116:2010)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 116. i 117. list: Ekstrudirane polikloroprenske navlake, opća namjena (IEC 60684-3-116:2010)
- EN 60684-3-205:2011 en  
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)  
Savitljive izolacijske navlake – 3. dio: Specifikacija zahtjeva za pojedinačne tipove navlaka – 205. list: Toplinski skupljajuće klorirane poliolefinske navlake, otporne na gorenje, nazivni omjer skupljanja 1,7:1 i 2:1 (IEC 60684-3-205:2011)
- EN 60684-3-209:2010 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 209: Heat-shrinkable polyolefin sleeving, general purpose, flame retarded (IEC 60684-3-209:2010)  
Savitljive izolacijske navlake – 3. dio: Specifikacija zahtjeva za pojedinačne tipove navlaka – 209. list: Toplinski skupljajuće poliolefinske navlake opće namjene s usporenim gorenjem (IEC 60684-3-209:2010)
- EN 60684-3-247:2011 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 247: Heat-shrinkable polyolefin sleeving; dual wall, not flame retarded, thick and medium wall (IEC 60684-3-247:2011)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 247. list: Toplinski skupljajuće poliolefinske navlake s dvostrukom stijjenkom, neotporne na gorenje, s debelim i srednjim stijjenkama (IEC 60684-3-247:2011)
- EN 60684-3-271:2011 en  
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)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 271. list: Toplinski skupljajuće elastomerne navlake s usporenim gorenjem, otporne na fluide, omjer skupljanja 2:1 (IEC 60684-3-271:2011)
- EN 60684-3-281:2010 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 281: Heat-shrinkable, polyolefin sleeving, semiconductive (IEC 60684-3-281:2010)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 281. list: Toplinski skupljajuće poliolefinske navlake, poluvodljive (IEC 60684-3-281:2010)
- EN 60684-3-282:2010 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 282: Heat-shrinkable, polyolefin sleeving – Stress control (IEC 60684-3-282:2010)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 282. list: Toplinski skupljajuće poliolefinske navlake – Kontrola naprezanja (IEC 60684-3-282:2010)
- FprEN 60684-3-284:2013 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 284: Heat-shrinkable, sleeveings, for oil barrier applications (IEC 60684-3-284:201X)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – Toplinski skupljajuće navlake za primjene na uljnim barijerama (IEC 60684-3-284:201X)
- FprEN 60684-3-285:2013 en  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 285: Heat-shrinkable polyolefin sleeving, for medium voltage joint insulation (IEC 60684-3-285:201X)  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 285. list: Toplinski skupljajuće poliolefinske navlake za srednjonaponsku zajedničku izolaciju (IEC 60684-3-285:201X)
- EN 60763-1:2011 en  
Laminated pressboard for electrical purposes – Part 1: Definitions, classification and general requirements (IEC 60763-1:2010)  
Laminirane prešane ploče za primjenu u elektrici – 1. dio: Definicije, razredba i opći zahtjevi (IEC 60763-1:2010)
- EN 60763-3-1:2011 en  
Laminated pressboard for electrical purposes – Part 3: Specifications for individual materials – Sheet 1: Requirements for laminated precompressed pressboard, Types LB 3.1A.1 and LB3.1A.2 (IEC 60763-3-1:2010)  
Laminirane prešane ploče za primjenu u elektrici – 3. dio: Specifikacije za pojedinačne materijale – 1. list: Specifikacije za laminirane predprešane ploče, tipovi LB 3.1.1, 3.1.2, 3.3.1 i 3.3.2 (IEC 60763-3-1:2010)
- EN 60819-1:2012 en  
Non-cellulosic papers for electrical purposes – Part 1: Definitions and general requirements (IEC 60819-1:2009)  
Necelulozni papiri za elektrotehničke svrhe – 1. dio: Definicije i opći zahtjevi (IEC 60819-1:2009)
- EN 60893-3-2:2004/A1:2011 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-2: Specifications for individual materials – Requirements for rigid laminated sheets based on epoxy resins (IEC 60893-3-2:2003/am1:2011)  
Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-2: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi epoksidnih smola (IEC 60893-3-2:2003/am1:2011)
- EN 60893-3-3:2004/A1:2012 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-3: Specifications for individual materials – Requirements for rigid laminated sheets based on melamine resins (IEC 60893-3-3:2003/am1:2011)

- Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-3: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi melaminskih smola (IEC 60893-3-3:2003/am1:2011)
- EN 60893-3-4:2004/A1:2012 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-4: Specifications for individual materials – Requirements for rigid laminated sheets based on phenolic resins (IEC 60893-3-4:2003/am1:2012)  
Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-4: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi fenolnih smola (IEC 60893-3-4:2003/am1:2012)
- EN 60893-3-5:2004/A1:2009 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-5: Specifications for individual materials – Requirements for rigid laminated sheets based on polyester resins (IEC 60893-3-5:2003/am1:2009)  
Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-5: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi poliesternih smola (IEC 60893-3-5:2003/am1:2009)
- EN 60893-3-6:2004/A1:2009 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-6: Specifications for individual materials – Requirements for rigid laminated sheets based on silicone resins (IEC 60893-3-6:2003/am1:2009)  
Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-6: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi silikonskih smola (IEC 60893-3-6:2003/am1:2009)
- EN 60893-3-7:2004/A1:2009 en  
Insulating materials – Industrial rigid laminated sheets based on thermosetting resins for electrical purposes – Part 3-7: Specifications for individual materials – Requirements for rigid laminated sheets based on polyimide resins (IEC 60893-3-7:2003/am1:2009)  
Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi na bazi termoreaktivnih smola za elektrotehničke svrhe – Dio 3-7: Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi poliamidnih smola (IEC 60893-3-7:2003/am1:2009)
- EN 62329-3-100:2010 en  
Heat-shrinkable moulded shapes – Part 3: Specification requirements for shape dimensions; material requirements and compatibility performance – Sheet 100: Heat-shrinkable moulded shape dimensions (IEC 62329-3-100:2010)  
Toplinski skupljajući lijevani oblici – 3. dio: Specifikacija zahtjeva za dimenzije oblika, zahtjevi za materijal i svojstva kompatibilnosti – 100. list: Dimenzije toplinski skupljajućih oblika (IEC 62329-3-100:2010)
- EN 62329-3-101:2010 en  
Heat-shrinkable moulded shapes – Part 3: Specification requirements for shape dimensions, material requirements and compatibility performance – Sheet 101: Heat-shrinkable moulded shapes, polyolefin, semi-rigid, limited fire hazard, material requirements and system performance (IEC 62329-3-101:2010)
- EN 62329-3-102:2010 en  
Heat-shrinkable moulded shapes – Part 3: Specification requirements and compatibility performance – Sheet 102: Heat-shrinkable elastomeric moulded shapes, semi-rigid, material requirements and system performance (IEC 62329-3-102:2010)  
Toplinski skupljajući lijevani oblici – 3. dio: Specifikacija zahtjeva za dimenzije oblika, zahtjevi za materijal i svojstva kompatibilnosti – 102. list: Toplinski skupljajući lijevani oblici od elastomera, polutvrđi, zahtjevi za materijal i značajke sustava (IEC 62329-3-102:2010)
- HZN/TO E23, Električni instalacijski pribor**
- EN 62444:2013 en  
Cable glands for electrical installations (IEC 62444:2010, MOD)  
Kabelske uvodnice za električne instalacije (IEC 62444:2010, MOD)
- HZN/TO E95, Mjerni releji i zaštitna oprema**
- EN 60255-1:2010 en  
Measuring relays and protection equipment – Part 1: Common requirements (IEC 60255-1:2009)  
Mjerni releji i zaštitna oprema – 1. dio: Opći zahtjevi (IEC 60255-1:2009)
- EN 60255-11:2010 en  
Measuring relays and protection equipment – Part 11: Voltage dips, short interruptions, variations and ripple on auxiliary power supply port (IEC 60255-11:2008)  
Mjerni releji i zaštitna oprema – 11. dio: Padovi napona, kratki prekidi, varijacije i kolebanja na priključku pomoćnog izvora napajanja (IEC 60255-11:2008)
- EN 60255-22-3:2008 en  
Measuring relays and protection equipment – Part 22-3: Electrical disturbance tests – Radiated electromagnetic field immunity (IEC 60255-22-3:2007)  
Mjerni releji i zaštitna oprema – Dio 22-3: Ispitivanja na električne smetnje – Otpornost na zračenja elektromagnetskog polja (IEC 60255-22-3:2007)
- EN 60255-22-5:2011 en  
Measuring relays and protection equipment – Part 22-5: Electrical disturbance tests – Surge immunity test (IEC 60255-22-5:2008)  
Mjerni releji i zaštitna oprema – Dio 22-5: Ispitivanja na električne smetnje – Ispitivanje otpornosti na udarni val (IEC 60255-22-5:2008)
- EN 60255-26:2013 en  
Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements (IEC 60255-26:2013)  
Mjerni releji i zaštitna oprema – 26. dio: Zahtjevi za elektromagnetsku kompatibilnost (IEC 60255-26:2013)
- EN 60255-26:2013/AC:2013 en  
Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements  
Mjerni releji i zaštitna oprema – 26. dio: Zahtjevi za elektromagnetsku kompatibilnost
- EN 60255-127:201X en  
Measuring relays and protection equipment – Part 127: Functional requirements for over/under voltage protection (IEC 60255-127:2010)

Mjerni releji i zaštitna oprema – 127. dio: Funkcionalni zahtjevi za prenaponsku/podnaponsku zaštitu (IEC 60255-127:2010)

EN 60255-151:2009 en  
Measuring relays and protection equipment – Part 151: Functional requirements for over/under current protection (IEC 60255-151:2009)  
Mjerni releji i zaštitna oprema – 151. dio: Funkcionalni zahtjevi za prekostrujnu/podstrujnu zaštitu (IEC 60255-151:2009)

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

EN 50174-2:2009/prAB:2013 en  
Information technology – Cabling installation – Part 2: Installation planning and practices inside buildings  
Informacijska tehnologija – Instalacija kabliranja – 2. dio: Planiranje instalacije i instalacijska praksa unutar zgrada

prEN 50600-2-3:2013 en  
Information technology – Data centre facilities and infrastructures – Part 2-3: Environmental control  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 2-3: Kontrola okoline

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

Draft EN 301 598 V1.0.0:2013 en  
White Space Devices (WSD) – Wireless Access Systems operating in the 470 MHz to 790 MHz frequency band – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Uređaji bijelog prostora (WSD) – Sustavi bežičnoga pristupa u frekvencijskom pojasu 470 MHz do 790 MHz – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE

Draft EN 302 636-2 V1.2.0:2013 en  
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 2: Scenarios  
Inteligentni sustavi prijevoza (ITS) – Komunikacija vozila – Geoumrežavanje – 2. dio: Scenariji

Draft EN 302 858-1 V1.3.1:2013 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Road Transport and Traffic Telematics (RTTT) – Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range – Part 1: Technical characteristics and test methods  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Telematika cestovnog prijevoza i prometa (RTTT) – Radarska oprema koja radi u frekvencijskom području 24,05 GHz do 24,25 GHz – 1. dio: Tehničke karakteristike i metode ispitivanja

Draft EN 302 858-2 V1.3.1:2013 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Road Transport and Traffic Telematics (RTTT) – Automotive radar equipment operating in the 24,05 GHz up to 24,25 GHz or 24,50 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Telematika cestovnog prijevoza i prometa (RTTT) – Radarska oprema koja radi u frekvencijskom području 24,05 GHz do 24,25 GHz – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE

#### **HZN/TO B1, *Graditeljstvo 1***

prEN 16687 en  
Construction products – Assessment of release of dangerous substances – Terminology  
Građevni proizvodi – Procjena otpuštanja opasnih tvari – Nazivlje

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

EN 2043:2013 en  
Aerospace series – Metallic materials – General requirements for semi-finished product qualification (excluding forgings and castings)  
Nizovi o zrakoplovstvu – Metalni materijali – Opći zahtjevi za kvalifikaciju poluzavršenih proizvoda (isključeno kovanje i lijevanje)

EN 2565:2013 en  
Aerospace series – Preparation of carbon fibre reinforced resin panels for test purposes  
Nizovi o zrakoplovstvu – Priprema ploča ojačanih smolom i ugljičnim vlaknima u svrhu ispitivanja

EN 2833-005:2013 en  
Aerospace series – Glass fibre thermosetting preimpregnates – Technical specification – Part 005: Glass fabric/phenolic resin preimpregnate  
Nizovi o zrakoplovstvu – Staklena vlakna – Staklena vlakna očvrstuta toplinom preimpregnirana – Tehnička specifikacija – 005. dio: Preimpregnirani tekstilom/fenolnom smolom

EN 3682-001:2013 en  
Aerospace series – Connectors, plug and receptacle, electrical; rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous – Part 001: Technical specification  
Nizovi o zrakoplovstvu – Spojnice, utikač i utična kutija, električna, pravokutna, utično zamjenjivi tip, sa stalka na ploču, stalna radna temperatura 150 °C – 001. dio: Tehničke specifikacija

EN 3682-002:2013 en  
Aerospace series – Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous – Part 002: Specification of performance and contact arrangements  
Nizovi o zrakoplovstvu – Spojnice, utikač i utična kutija, električna, pravokutna, utično zamjenjivi tip, sa stalka na ploču, stalna radna temperatura 150 °C – 002. dio: Specifikacija radnih značajki i rasporedi kontakata

EN ISO 3691-6:2013 en  
Industrial trucks – Safety requirements and verification – Part 6: Burden and personnel carriers (ISO 3691-6:2013)  
Industrijski kamioni – Sigurnosni zahtjevi i potvrđivanje – 6. dio: Vozila za prijevoz tereta i osoblja (ISO 3691-6:2013)

EN 3783:2013 en  
Aerospace series – Fibre composite materials – Normalisation of fibre dominated mechanical properties  
Nizovi o zrakoplovstvu – Materijali od kompozitnih vlakana – Normalizacija pretežno vlaknastih mehaničkih svojstava

EN 3983:2013 en  
Aerospace series – Aluminium alloy AL-P7050-T7651 – Plate – 6 mm < a ≤ 160 mm  
Nizovi o zrakoplovstvu – Legura aluminija AL-P7050-T7651 – Ploča – 6 mm < a ≤ 160 mm

- EN 4262:2013 en  
Aerospace series – Heat resisting alloy FE-PA4901 (X12CrNiCoMoW21-20) – As forged – Forging stock – a or D = 200 mm – 690 MPa = Rm = 880MPa  
Nizovi o zrakoplovstvu – Legure otporne na visoke temperature FE-PA4901 (X12CrNiCoMoW21-20) – Kao kovani – Kovački otkivak – a ili D = 200 mm – 690 MPa = Rm = 880MPa
- EN 4263:2013 en  
Aerospace series – Heat resisting alloy FE-PA4901 (X12CrNiCoMoW21-20) – As forged – Forging stock – a or D = 200 mm – 690 MPa = Rm = 960MPa  
Nizovi o zrakoplovstvu – Legure otporne na visoke temperature FE-PA4901 (X12CrNiCoMoW21-20) – Kao kovani – Kovački otkivak – a ili D = 200 mm – 690 MPa = Rm = 960MPa
- EN 4488:2013 en  
Aerospace series – Non-metallic materials – Anaerobic polymerisable compounds – Threadlocking – Torque strength 2 Nm  
Nizovi o zrakoplovstvu – Nemetalni materijali – Anaerobne polimerne komponente – Protiv odvrtanja vijka – Moment sile 2 Nm
- EN 4503:2013 en  
Aerospace series – Non-metallic materials – Textiles – Test method – Determination of water soluble chloride and sulfate of aqueous extracts  
Nizovi o zrakoplovstvu – Nemetalni materijali – Tekstili – Metoda ispitivanja – Određivanje u vodi topljivih klorida i sulfata u vodenim ekstraktima
- EN 4504:2013 en  
Aerospace series – Non-metallic materials, Textiles – Test method – Determination of flexibility of narrow fabrics  
Nizovi o zrakoplovstvu – Nemetalni materijali – Tekstili – Metoda ispitivanja – Određivanje savitljivosti uskih tkanina
- EN 4505:2013 en  
Aerospace series – Non-metallic materials – Textiles – Test method – Determination of dimensional stability  
Nizovi o zrakoplovstvu – Nemetalni materijali – Tekstili – Metoda ispitivanja – Određivanje stabilnosti dimenzija
- EN 4507:2013 en  
Aerospace series – Non-metallic materials – Textiles – Test method – Determination of water extractable matter  
Nizovi o zrakoplovstvu – Nemetalni materijali – Tekstili – Metoda ispitivanja – Određivanje tvari topivih u vodi

## HZN/TU V1, *Elektronika 1*

- EN 50290-2-23:2013 en  
Communication cables – Part 2-23: Common design rules and construction – Polyethylene insulation for multi-pair cables used in access telecommunication networks: Outdoor cables  
Komunikacijski kabeli – Dio 2-23: Opća pravila konstruiranja i izrada – Polietilenska izolacija za kabele s paricama koji se upotrebljavaju u pristupnim telekomunikacijskim mrežama: Kabeli za vanjsku uporabu
- EN 50290-2-25:2013 en  
Communication cables – Part 2-25: Common design rules and construction – Polypropylene insulation compounds  
Komunikacijski kabeli – Dio 2-25: Opća pravila konstruiranja i izrada – Polipropilenske izolacijske smjese

- prEN 50290-2-33:2013 en  
Communication cables – Part 2-33: Common design rules and construction – Polyethylene insulation for multi element metallic data cables for indoor application  
Komunikacijski kabeli – Dio 2-33: Opća pravila konstruiranja i izrada – Polietilenska izolacija za višezilne metalne kabele za prijenos podataka za uporabu u zatvorenom prostoru
- prEN 50290-2-37:2013 en  
Communication cables – Part 2-37: Common design rules and construction – Polyethylene insulation for coaxial cables  
Komunikacijski kabeli – Dio 2-37: Opća pravila konstruiranja i izrada – Polietilenska izolacija za koaksijalne kabele
- prEN 50290-2-38:2013 en  
Communication cables – Part 2-38: Common design rules and construction – Polypropylene insulation for coaxial cables  
Komunikacijski kabeli – Dio 2-38: Opća pravila konstruiranja i izrada – Polipropilenska izolacija za koaksijalne kabele
- EN 50290-4-1:201X en  
Communication cables – Part 4-1: General considerations for the use of cables – Environmental conditions and safety aspects  
Komunikacijski kabeli – Dio 4-1: Opća razmatranja za uporabu kabela – Uvjeti s obzirom na zaštitu okoliša i sigurnosni aspekti
- EN 50290-4-2:201X en  
Communication cables – Part 4-2: General considerations for the use of cables – Guide to use  
Komunikacijski kabeli – Dio 4-2: Opća razmatranja za uporabu kabela – Upute za uporabu

## 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 12560-2:2003 en  
Prirubnice i njihovi spojevi – Brtve za prirubnice označene prema razredu – 2. dio: Spiralno namotane brtve za uporabu s čeličnim prirubnicama (EN 12560-2:2001)  
Flanges and their joints – Gaskets for Class-designated flanges – Part 2: Spiral wound gaskets for use with steel flanges (EN 12560-2:2001)  
- zamijenjena s: HRN EN 12560-2:2013

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

- HRN EN 15779:2010 en  
Naftni proizvodi i derivati masti i ulja – Metilni esteri masnih kiselina (FAME) za dizelske motore – Određivanje višestruko nezasićenih (≥ 4 dvostrukih veza) metilnih estera masnih kiselina (PUFA) plinskom kromatografijom (EN 15779:2009)  
Petroleum products and fat and oil derivatives – Fatty acid methyl esters (FAME) for diesel engines – Determination of polyunsaturated (≥ 4 double bonds) fatty acid methyl esters (PUFA) by gas chromatography (EN 15779:2009)  
- zamijenjena s: HRN EN 15779:2013

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

- HRN ISO 711:1999 en  
Žitarice i proizvodi od žitarica – Određivanje količine vode (Osnovna referentna metoda) (ISO 711:1985)  
Cereals and cereal products – Determination of moisture content (Basic reference method) (ISO 711:1985)  
- bez zamjene
- HRN ISO 951:1999 en  
Mahunarke u vrećama – Uzorkovanje (ISO 951:1979)  
Pulses in bags – Sampling (ISO 951:1979)  
- bez zamjene
- HRN ISO 2170:1999 en  
Žitarice i mahunarke – Uzorkovanje mljevenih proizvoda (ISO 2170:1980)  
Cereals and pulses – Sampling of milled products (ISO 2170:1980)  
- bez zamjene
- HRN ISO 5530-4:2004 en  
Pšenično brašno (Triticum aestivum L.) – Fizikalne značajke tijesta – 4. dio: Određivanje reoloških svojstava uporabom alveografa (ISO 5530-4:2002)  
Wheat flour (Triticum aestivum L.) – Physical characteristics of doughs – Part 4: Determination of rheological properties using an alveograph (ISO 5530-4:2002)  
- bez zamjene
- HRN ISO 5531:1999 en  
Pšenično brašno – Određivanje vlažnog glutena (ISO 5531:1978)  
Wheat flour – Determination of wet gluten (ISO 5531:1978)  
- bez zamjene
- HRN EN ISO 6644:2008 en  
Žitarice i proizvodi mljevenja žitarica – Automatsko uzorkovanje mehaničkim sredstvima (ISO 6644:2002; EN ISO 6644:2007)  
Flowing cereals and milled cereal products – Automatic sampling by mechanical means (ISO 6644:2002; EN ISO 6644:2007)  
- bez zamjene
- HRN ISO 6645:2004 en  
Pšenično brašno – Određivanje suhog glutena (ISO 6645:1981)  
Wheat flour – Determination of dry gluten (ISO 6645:1981)  
- bez zamjene
- HRN ISO 6648:1999 en  
Riža – Određivanje viskoelastičnih svojstava pri različitim fazama kuhanja – Metoda uporabe viskoelastografa (ISO 6648:1993)  
Rice – Determination of viscoelastic properties at various stages of cooking – Method using a viscoelastograph (ISO 6648:1993)  
- bez zamjene
- HRN ISO 7302:2002 en  
Žitarice i proizvodi od žitarica – Određivanje količine ukupne masti (ISO 7302:1982)  
Cereals and cereal products – Determination of total fat content (ISO 7302:1982)  
- bez zamjene
- HRN ISO 7495:1999 en  
Pšenično brašno – Određivanje udjela vlažnog glutena mehaničkim sredstvima (ISO 7495:1990)  
Wheat flour – Determination of wet gluten content by mechanical means (ISO 7495:1990)  
- bez zamjene
- HRN ISO 7698:2001 en  
Žitarice, mahunarke i njihovi proizvodi – Brojenje kolonija kvasaca i plijesni (ISO 7698:1990)

Cereals, pulses and derived products – Enumeration of bacteria, yeasts and moulds (ISO 7698:1990)  
- bez zamjene

- HRN EN ISO 13690:2008 en  
Žitarice, mahunarke i proizvodi mljevenja – Uzorkovanje nepokretnih partija (ISO 13690:1999; EN ISO 13690:2007)  
Cereals, pulses and milled products – Sampling of static batches (ISO 13690:1999; EN ISO 13690:2007)  
- bez zamjene
- HRN EN 15587:2008 en  
Žitarice i proizvodi od žitarica – Određivanje količine stranih tvari u krušnoj pšenici (Triticum aestivum L.), tvrdoj pšenici (T.durum Desf.), raži (Secale cereale L.) i stočnom ječmu (Hordeum vulgare L.) (EN 15587:2008)  
Cereals and cereal products – Determination of Besatz in wheat (Triticum aestivum L.), durum wheat (Triticum durum Desf.), rye (Secale cereale L.) and feed barley (Hordeum vulgare L.) (EN 15587:2008)  
- zamijenjena s: HRN EN 15587:2013
- HRN EN 15587:2008/Ispr.1:2013 en  
Žitarice i proizvodi od žitarica – Određivanje količine stranih tvari u krušnoj pšenici (Triticum aestivum L.), tvrdoj pšenici (T.durum Desf.), raži (Secale cereale L.) i stočnom ječmu (Hordeum vulgare L.) (EN 15587:2008/AC:2009)  
Cereals and cereal products – Determination of Besatz in wheat (Triticum aestivum L.), durum wheat (Triticum durum Desf.), rye (Secale cereale L.) and feed barley (Hordeum vulgare L.) (EN 15587:2008/AC:2009)  
- zamijenjena s: HRN EN 15587:2013

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

- HRN ISO 1447:1999 en  
Sirova kava – Određivanje količine vode (Rutinska metoda) (ISO 1447:1978)  
Green coffee – Determination of moisture content (Routine method) (ISO 1447:1978)  
- bez zamjene
- HRN ISO 4052:1999 en  
Kava – Određivanje količine kofeina (Referentna metoda) (ISO 4052:1983)  
Coffee – Determination of caffeine content (Reference method) (ISO 4052:1983)  
- bez zamjene
- HRN ISO 7532:1999 en  
Instant-kava – Granulometrijska analiza (ISO 7532:1985)  
Instant coffee – Size analysis (ISO 7532:1985)  
- bez zamjene
- HRN ISO 10095:1999 en  
Kava – Određivanje količine kofeina – Metoda tekućinske kromatografije visokog učinka (ISO 10095:1992)  
Coffee – Determination of caffeine content – Method using high-performance liquid chromatography (ISO 10095:1992)  
- bez zamjene

#### **HZN/TO 34/PO 10, Poljoprivredni i prehrambeni proizvodi; Senzorske analize**

- HRN ISO 6564:1999 en  
Senzorske analize – Metodologija – Metode za razlikovanje okusa (ISO 6564:1985)  
Sensory analysis – Methodology – Flavour profile methods (ISO 6564:1985)  
- bez zamjene

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

- HRN EN ISO 9038:2004 en  
Ispitivanje podržavanja gorenja kapljevine (ISO 9038:2002; EN ISO 9038:2003)  
Test for sustained combustibility of liquids (ISO 9038:2002; EN ISO 9038:2003)  
- zamijenjena s: HRN EN ISO 9038:2013
- HRN EN ISO 11997-2:2006 en  
Boje i lakovi – Određivanje otpornosti na cikličke uvjete korozije – 2. dio: Mokro (slana magla)/suho/vlažno/UV zračenje (ISO 11997-2:2000; EN ISO 11997-2:2006)  
Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 2: Wet (salt fog)/dry/humidity/UV light (ISO 11997-2:2000; EN ISO 11997-2:2006)  
- zamijenjena s: HRN EN ISO 11997-2:2013
- HRN EN 13438:2005 en  
Boje i lakovi – Praškaste organske prevlake za galvanizirane ili šerardizirane čelične proizvode namijenjene za konstrukcije (EN 13438:2005)  
Paints and varnishes – Powder organic coatings for galvanized or sherardised steel products for construction purposes (EN 13438:2005)  
- zamijenjena s: HRN EN 13438:2013

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

- HRN EN ISO 140-1:1998 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 1. dio: Zahtjevi na laboratorij za ispitivanje bez bočnog prijenosa (ISO 140-1:1997; EN ISO 140-1:1997)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 1: Requirements for laboratory test facilities with suppressed flanking transmission (ISO 140-1:1997; EN ISO 140-1:1997)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-1:1998/A1:2006 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 1. dio: Zahtjevi na laboratorij za ispitivanje bez bočnoga prijenosa – Amandman 1: Posebni zahtjevi za okvire ispitnih otvora laganih dvoslojnih pregrada (ISO 140-1:1997/A1:2004; EN ISO 140-1:1997/A1:2004)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 1: Requirements for laboratory test facilities with suppressed flanking transmission – Amendment 1: Specific requirements on the frame of the test opening for lightweight twin leaf partitions (ISO 140-1:1997/A1:2004; EN ISO 140-1:1997/A1:2004)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-3:1998 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 3. dio: Laboratorijska mjerenja zračne zvučne izolacije građevnih elemenata (ISO 140-3:1995; EN ISO 140-3:1995)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 3: Laboratory measurements of airborne sound insulation of building elements (ISO 140-3:1995; EN ISO 140-3:1995)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-3:1998/A1:2006 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 3. dio: Laboratorijska mjerenja zračne zvučne izolacije građevnih elemenata – Amandman 1: Smjernice za instaliranje laganih dvoslojnih pregrada (ISO 140-3:1995/A1:2004; EN ISO 140-3:1995/A1:2004)

Acoustics – Measurement of sound insulation in buildings and of building elements – Part 3: Laboratory measurements of airborne sound insulation of building elements – Amendment 1: Installation guidelines for lightweight twin leaf partitions (ISO 140-3:1995/A1:2004; EN ISO 140-3:1995/A1:2004)  
- zamijenjena s: HRN EN ISO 10140-1:2010

- HRN EN ISO 140-6:1999 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 6. dio: Laboratorijska mjerenja udarne zvučne izolacije međukatnih konstrukcija (ISO 140-6:1998; EN ISO 140-6:1998)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 6: Laboratory measurements of impact sound insulation of floors (ISO 140-6:1998; EN ISO 140-6:1998)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-8:1998 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 8. dio: Laboratorijska mjerenja smanjenja prenesenog zvuka udara izvedbom podne obloge na normiranoj međukatnoj konstrukciji (ISO 140-8:1997; EN ISO 140-8:1997)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a standard floor (ISO 140-8:1997; EN ISO 140-8:1997)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-11:2006 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 11. dio: Laboratorijska mjerenja smanjenja udarnog zvuka prenesenog podnim oblogama na laganim referentnim podovima (ISO 140-11:2005; EN ISO 140-11:2005)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 11: Laboratory measurements of the reduction of transmitted impact sound by floor coverings on lightweight reference floors (ISO 140-11:2005; EN ISO 140-11:2005)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN ISO 140-16:2008 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 16. dio: Laboratorijska mjerenja poboljšanja indeksa zvučne izolacije dodatnom oblogom (ISO 140-16:2006; EN ISO 140-16:2006)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 16: Laboratory measurement of the sound reduction index improvement by additional lining (ISO 140-16:2006; EN ISO 140-16:2006)  
- zamijenjena s: HRN EN ISO 10140-1:2010
- HRN EN 20140-10:1998 en  
Akustika – Mjerenje zvučne izolacije zgrada i građevnih elemenata – 10. dio: Laboratorijska mjerenja izolacije od zračnog zvuka malih građevnih elemenata (ISO 140-10:1991; EN 20140-10:1992)  
Acoustics – Measurement of sound insulation in buildings and of building elements – Part 10: Laboratory measurement of airborne sound insulation of small building elements (ISO 140-10:1991; EN 20140-10:1992)  
- zamijenjena s: HRN EN ISO 10140-1:2010

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

- HRN EN ISO 6520-2:2002 en  
Zavarivanje i srodni procesi – Razredba geometrijskih nepravilnosti u metalnim materijalima – 2. dio: Zavarivanje uz tlak (ISO 6520-2:2001; EN ISO 6520-2:2001)



Welding and allied processes – Classification of geometric imperfections in metallic materials – Part 2: Welding with pressure (ISO 6520-2:2001; EN ISO 6520-2:2001)  
- zamijenjena s: HRN EN ISO 6520-2:2013

#### **HZN/TO 54, Eterična ulja**

HRN ISO 9235:2005 hr,en,fr  
Prirodne aromatične sirovine – Rječnik (ISO 9235:1997)  
Aromatic natural raw material – Vocabulary (ISO 9235:1997)  
- zamijenjena s: HRN EN ISO 9235:2013

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

HRN ISO 5982:2000 en  
Vibracije i udari – Izravna (mehanička) impedancija ljudskoga tijela (ISO 5982:1981)  
Vibration and shock – Mechanical driving point impedance of the human body (ISO 5982:1981)  
- zamijenjena s: HRN ISO 5982:2013

HRN ISO 7962:2000 en  
Mehaničke vibracije i udari – Mehanički prijenosni faktor ljudskoga tijela u z smjeru (ISO 7962:1987)  
Mechanical vibration and shock – Mechanical transmissibility of the human body in the z direction (ISO 7962:1987)  
- zamijenjena s: HRN ISO 5982:2013

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

HRN EN 12579:2008 en  
Poboljšivači tla i supstrati – Uzorkovanje (EN 12579:1999)  
Soil improvers and growing media – Sampling (EN 12579:1999)  
- zamijenjena s: HRN EN 12579:2013

HRN EN 12580:2005 en  
Poboljšivači tla i supstrati – Određivanje količine (EN 12580:1999)  
Soil improvers and growing media – Determination of quantity (EN 12580:1999)  
- zamijenjena s: HRN EN 12580:2013

HRN EN 13971:2008 en  
Karbonatne tvari za kalcifikaciju – Određivanje reaktivnosti – Metoda potencimetrijske titracije klorovodičnom kiselinom (EN 13971:2008)  
Carbonate liming materials – Determination of reactivity – Potentiometric titration method with hydrochloric acid (EN 13971:2008)  
- zamijenjena s: HRN EN 13971:2013

HRS CEN/TS 16195:2011 en  
Gnojiva – Određivanje klorida u odsutnosti organskog materijala (CEN/TS 16195:2011)  
Fertilizers – Determination of chlorides in the absence of organic material (CEN/TS 16195:2011)  
- zamijenjena s: HRN EN 16195:2013

HRS CEN/TS 16196:2011 en  
Gnojiva – Manganometrijsko određivanje ekstrahiranog kalcija nakon taloženja u obliku oksalata (CEN/TS 16196:2011)  
Fertilizers – Manganometric determination of extracted calcium following precipitation in the form of oxalate (CEN/TS 16196:2011)  
- zamijenjena s: HRN EN 16196:2013

HRS CEN/TS 16197:2011 en  
Gnojiva – Određivanje magnezija atomskom apsorpcijskom spektrometrijom (CEN/TS 16197:2011)  
Fertilizers – Determination of magnesium by atomic absorption spectrometry (CEN/TS 16197:2011)  
- zamijenjena s: HRN EN 16197:2013

HRS CEN/TS 16198:2011 en  
Gnojiva – Određivanje magnezija kompleksometrijski (CEN/TS 16198:2011)  
Fertilizers – Determination of magnesium by complexometry (CEN/TS 16198:2011)  
- zamijenjena s: HRN EN 16198:2013

HRS CEN/TS 16199:2011 en  
Gnojiva – Određivanje ekstrahiranog natrija spektrometrijom emisije plamena (CEN/TS 16199:2011)  
Fertilizers – Determination of the sodium extracted by flame-emission spectrometry (CEN/TS 16199:2011)  
- zamijenjena s: HRN EN 16199:2013

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

HRN EN 12201-2:2011 en  
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)  
- zamijenjena s: HRN EN 12201-2:2013

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

HRN ISO 6107-2:2010 en,fr,ru  
Kvaliteta vode – Terminološki rječnik – 2. dio (ISO 6107-2:2006)  
Water quality – Vocabulary – Part 2 (ISO 6107-2:2006)  
- zamijenjena s: HRN ISO 6107-2:2013

HRN ISO 6107-7:2010 en,fr,ru  
Kvaliteta vode – Terminološki rječnik – 7. dio (ISO 6107-7:2006)  
Water quality – Vocabulary – Part 7 (ISO 6107-7:2006)  
- zamijenjena s: HRN ISO 6107-7:2013

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

HRN EN 13496:2004 en  
Toplinsko-izolacijski proizvodi za primjenu u zgradarstvu – Određivanje mehaničkih svojstava mrežice od staklenih vlaknaca (EN 13496:2002)  
Thermal insulation products for building applications – Determination of the mechanical properties of glass fibre meshes (EN 13496:2002)  
- zamijenjena s: HRN EN 13496:2013

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

HRN EN 336:2006 en  
Konstrukcijsko drvo – Dimenzije, dopuštena odstupanja (EN 336:2003)  
Structural timber – Sizes, permitted deviations (EN 336:2003)  
- zamijenjena s: HRN EN 336:2013

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

HRN EN ISO 14889:2010 en  
Oftalmološka optika – Naočalne leće – Osnovni zahtjevi za neoblikovane gotove leće (ISO 14889:2003; EN ISO 14889:2009)  
Ophthalmic optics – Spectacle lenses – Fundamental requirements for uncut finished lenses (ISO 14889:2003; EN ISO 14889:2009)  
- zamijenjena s: HRN EN ISO 14889:2013

HRN EN ISO 15798:2010 en  
Oftalmološki implantanti – Oftalmološka viskozno-kirurška sredstva (ISO 15798:2010; EN ISO 15798:2010)

Ophthalmic implants – Ophthalmic viscosurgical devices (ISO 15798:2010; EN ISO 15798:2010)  
- zamijenjena s: HRN EN ISO 15798:2013

Open fronted gas-fired independent space heaters (EN 13278:2003)  
- zamijenjena s: HRN EN 13278:2013

### **HZN/TO 178, Dizala, pokretne stube i pokretne trake za osobe**

HRS CEN/TS 81-82:2008 en  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Postojeća dizala – 82. dio: Poboljšanje pristupačnosti dizala osobama s posebnim potrebama (CEN/TS 81-82:2008)  
Safety rules for the construction and installation of lifts – Existing lifts – Part 82: Improvement of the accessibility of existing lifts for persons including persons with disability (CEN/TS 81-82:2008)  
- zamijenjena s: HRN EN 81-82:2013

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

HRN EN 12221-1:2008 en  
Namještaj za prematanje za uporabu u kućanstvu – 1. dio: Sigurnosni zahtjevi (EN 12221-1:2008)  
Changing units for domestic use – Part 1: Safety requirements (EN 12221-1:2008)  
- zamijenjena s: HRN EN 12221-1:2013

HRN EN 12221-2:2008 en  
Namještaj za prematanje za uporabu u kućanstvu – 2. dio: Metode ispitivanja (EN 12221-2:2008)  
Changing units for domestic use – Part 2: Test methods (EN 12221-2:2008)  
- zamijenjena s: HRN EN 12221-2:2013

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

HRN ISO 17380:2009 en  
Kakvoća tla – Određivanje ukupnih cijanida i lako oslobodivih cijanida – Metoda analize kontinuiranim tokom (ISO 17380:2004)  
Soil quality – Determination of total cyanide and easily released cyanide content – Continuous flow analysis method (ISO 17380:2004)  
- zamijenjena s: HRN EN ISO 17380:2013

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

HRN EN 14215:2008 en  
Tekstilne podne obloge – Razredba strojno rađenih tepiha i staza s florom (EN 14215:2003)  
Textile floor coverings – Classification of machine-made pile rugs and runners (EN 14215:2003)  
- zamijenjena s: HRN EN 14215:2013

### **HZN/TO 228, Usluge u turizmu**

HRN EN 13809:2008 en,fr,de  
Usluge u turizmu – Turističke agencije i turoperatori – Nazivlje (EN 13809:2003)  
Tourism services – Travel agencies and tour operators – Terminology (EN 13809:2003)  
- zamijenjena s: HRN EN 13809:2013

HRN EN ISO 18513:2008 en,fr,de  
Usluge u turizmu – Hoteli i druge vrste turističkog smještaja – Nazivlje (ISO 18513:2003; EN ISO 18513:2003)  
Tourism services – Hotels and other types of tourism accommodation – Terminology (ISO 18513:2003; EN ISO 18513:2003)  
- zamijenjena s: HRN EN ISO 18513:2013

### **HZN/TO 502, Plinski uređaji**

HRN EN 13278:2004 en  
Plinske konvekcijske grijalice prostorija s otvorenom komorom za izgaranje (EN 13278:2003)

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

HRN EN 10208-1:2009 en  
Čelične cijevi za cjevovode zapaljivih medija – Tehnički uvjeti isporuke – 1. dio: Cijevi razreda A (EN 10208-1:2009)  
Steel pipes for pipelines for combustible fluids – Technical delivery conditions – Part 1: Pipes of requirement class A (EN 10208-1:2009)  
- zamijenjena s: HRN EN ISO 3183:2013

HRN EN 10208-2:2009 en  
Čelične cijevi za cjevovode zapaljivih medija – Tehnički uvjeti isporuke – 2. dio: Cijevi razreda B (EN 10208-2:2009)  
Steel pipes for pipelines for combustible fluids – Technical delivery conditions – Part 2: Pipes of requirement class B (EN 10208-2:2009)  
- zamijenjena s: HRN EN ISO 3183:2013

HRN EN 10216-1:2003 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 1. dio: Cijevi od nelegiranih čelika s utvrđenim svojstvima pri sobnoj temperaturi (EN 10216-1:2002)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 1: Non-alloy steel tubes with specified room temperature properties (EN 10216-1:2002)  
- zamijenjena s: HRN EN 10216-1:2013

HRN EN 10216-1:2003/A1:2008 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 1. dio: Cijevi od nelegiranih čelika s utvrđenim svojstvima pri sobnoj temperaturi (EN 10216-1:2002/A1:2004)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 1: Non-alloy steel tubes with specified room temperature properties (EN 10216-1:2002/A1:2004)  
- zamijenjena s: HRN EN 10216-1:2013

HRN EN 10216-3:2003 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 3. dio: Cijevi od legiranih sitnozrnatih čelika (EN 10216-3:2002)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 3: Alloy fine grain steel tubes (EN 10216-3:2002)  
- zamijenjena s: HRN EN 10216-3:2013

HRN EN 10216-3:2003/A1:2008 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 3. dio: Cijevi od legiranih sitnozrnatih čelika (EN 10216-3:2002/A1:2004)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 3: Alloy fine grain steel tubes (EN 10216-3:2002/A1:2004)  
- zamijenjena s: HRN EN 10216-3:2013

HRN EN 10216-4:2003 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 4. dio: Cijevi od nelegiranih i legiranih čelika s utvrđenim svojstvima pri niskim temperaturama (EN 10216-4:2002)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 4: Non-alloy and alloy steel tubes with specified low temperature properties (EN 10216-4:2002)  
- zamijenjena s: HRN EN 10216-4:2013

HRN EN 10216-4:2003/A1:2008 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 4. dio: Cijevi od nelegiranih i legiranih čelika s utvrđenim svojstvima pri niskim temperaturama (EN 10216-4:2002/A1:2004)

Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 4: Non-alloy and alloy steel tubes with specified low temperature properties (EN 10216-4:2002/A1:2004)

- zamijenjena s: HRN EN 10216-4:2013

HRN EN 10216-5:2004 en

Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 5. dio: Cijevi od nehrđajućih čelika (EN 10216-5:2004)

Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes (EN 10216-5:2004)

- zamijenjena s: HRN EN 10216-5:2013

HRN EN 10216-5:2004/Ispr.1:2008 en

Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 5. dio: Cijevi od nehrđajućih čelika (EN 10216-5:2004/AC:2008)

Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes (EN 10216-5:2004/AC:2008)

- zamijenjena s: HRN EN 10216-5:2013

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

HRN EN 13174:2001 en

Katodna zaštita lučkih postrojenja (EN 13174:2001)

Cathodic protection for harbour installations (EN 13174:2001)

- zamijenjena s: HRN EN ISO 13174:2013

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

HRN EN 13757-3:2005 en

Sustavi komunikacije kod mjerila i daljinsko očitavanje mjerila – 3. Dio: Opseg primjene (mjerna sabirnica/M-bus) (EN 13757-3:2004)

Communication systems for and remote reading of meters – Part 3: Dedicated application layer (M-Bus) (EN 13757-3:2004)

- zamijenjena s: HRN EN 13757-3:2013

HRN EN 13757-4:2007 en

Sustavi komunikacije kod mjerila i daljinsko očitavanje mjerila – 4. dio: Bežično očitavanje mjerila (Očitavanje mjerila radiovezom u SRD pojasu od 868 MHz do 870 MHz) (EN 13757-4:2005)

Communication systems for meters and remote reading of meters – Part 4: Wireless meter readout (Radio meter reading for operation in the 868 MHz to 870 MHz SRD band) (EN 13757-4:2005)

- zamijenjena s: HRN EN 13757-4:2013

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

HRN EN 13707:2009 en

Savitljive hidroizolacijske trake – Bitumenske hidroizolacijske krovne trake s uloškom – Definicije i značajke (EN 13707:2004+A2:2009)

Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing – Definitions and characteristics (EN 13707:2004+A2:2009)

- zamijenjena s: HRN EN 13707:2013

HRN EN 14509:2008 en

Samonosivi izolacijski paneli obostrano obloženi limom – Tvornički izrađeni proizvodi – Specifikacije (EN 14509:2006)

Self-supporting double skin metal faced insulating panels – Factory made products – Specifications (EN 14509:2006)

- zamijenjena s: HRN EN 14509:2013

HRN EN 14509:2008/Ispr.1:2008 en

Samonosivi izolacijski paneli obostrano obloženi limom – Tvornički izrađeni proizvodi – Specifikacije (EN 14509:2006/AC:2008)

Self-supporting double skin metal faced insulating panels – Factory made products – Specifications (EN 14509:2006/AC:2008)

- zamijenjena s: HRN EN 14509:2013

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

HRN EN 13231-2:2007 en

Oprema za željeznice – Željeznički gornji ustroj – Preuzimanje radova – 2. dio: Radovi na kolosijeku sa zastorom – Skretnice i križišta (EN 13231-2:2006)

Railway applications – Track – Acceptance of works – Part 2: Works on ballasted track – Switches and crossings (EN 13231-2:2006)

- zamijenjena s: HRN EN 13231-1:2013

HRN ENV 13481-6:2004 en

Oprema za željeznice – Željeznički gornji ustroj – Zahtjevi za izradbu kolosiječnoga pričvrstnog pribora – 6. dio: Kolosiječni pričvrstni pribor za prigušenje vibracija (ENV 13481-6:2002)

Railway applications – Track – Performance requirements for fastening systems – Part 6: Special fastening systems for attenuation of vibration (ENV 13481-6:2002)

- bez zamjene

HRN ENV 13481-6/AC:2005 en

Oprema za željeznice – Željeznički gornji ustroj – Zahtjevi za izradbu kolosiječnog pričvrstnog pribora – 6. dio: Kolosiječni pričvrstni pribor za prigušenje vibracija (ENV 13481-6:2002/AC:2004)

Railway applications – Track – Performance requirements for fastening systems – Part 6: Special fastening systems for attenuation of vibration (ENV 13481-6:2002/AC:2004)

- bez zamjene

HRN EN 13481-8:2007 en

Oprema za željeznice – Željeznički gornji ustroj – Zahtjevi za izradbu kolosiječnoga pričvrstnog pribora – 8. dio: Kolosiječni pričvrstni pribor za kolosijeka s velikim osovinskim opterećenjem (EN 13481-8:2006)

Railway applications – Track – Performance requirements for fastening systems – Part 8: Fastening systems for track with heavy axle loads (EN 13481-8:2006)

- bez zamjene

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

HRN EN ISO 306:2008 en

Plastika – Plastomerni materijali – Određivanje temperature omekšavanja po Vicatu (VST) (ISO 306:2004; EN ISO 306:2004)

Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST) (ISO 306:2004; EN ISO 306:2004)

- zamijenjena s: HRN EN ISO 306:2013

HRN EN 438-9:2010 en

Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajenog naziva laminati) – 9. dio: Razredba i specifikacije za laminatne alternativnih jezgri (EN 438-9:2010)

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (Usually called Laminates) – Part 9: Classification and specifications for alternative core laminates (EN 438-9:2010)

- zamijenjena s: HRN EN 438-9:2013

HRN EN ISO 4892-3:2008 en

Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 3. dio. Fluorescentne UV-svjetiljke (ISO 4892-3:2006; EN ISO 4892-3:2006)

Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO 4892-3:2006; EN ISO 4892-3:2006)

- zamijenjena s: HRN EN ISO 4892-3:2013

HRN EN 13482:2008 en  
Gumena crijeva i crijevni uređaji za asfalt i bitumen –  
Specifikacija (EN 13482:2001)  
Rubber hoses and hose assemblies for asphalt and  
bitumen – Specification (EN 13482:2001)  
- zamijenjena s: HRN EN 13482:2013

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

HRN EN 14471:2008 en  
Dimnjaci – Sustavi dimnjaka s plastičnim dimovodnim  
cijevima – Zahtjevi i ispitne metode (EN 14471:2005)  
Chimneys – System chimneys with plastic flue liners  
– Requirements and test methods (EN 14471:2005)  
- zamijenjena s: HRN EN 14471:2013

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

HRN EN 13179-1:2004 en  
Ispitivanja punila za bitumenske mješavine – 1.  
dio: Razlika između točaka razmekšanja dobivenih  
ispitivanjem prstenom i kuglicom (EN 13179-1:2000)  
Tests for filler aggregate used in bituminous mixtures  
– Part 1: Delta ring and ball test (EN 13179-1:2000)  
- zamijenjena s: HRN EN 13179-1:2013

### **HZN/TO 539, Kemijski dezinficijensi i antiseptici**

HRN EN 13727:2012 en  
Kemijski dezinficijensi i antiseptici – Kvantitativni  
suspenzijski test za vrednovanje baktericidne  
djelotvornosti u medicini – Metoda ispitivanja i  
zahtjevi (faza 2, korak 1) (EN 13727:2012)  
Chemical disinfectants and antiseptics – Quantitative  
suspension test for the evaluation of bactericidal  
activity in the medical area – Test method and  
requirements (phase 2, step 1) (EN 13727:2012)  
- zamijenjena s: HRN EN 13727:2013

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

HRN EN 12098-3:2003 en  
Regulacija sustava grijanja – 3. dio: Uređaji za kontrolu  
sustava električnog grijanja s kompenzacijom prema  
vanjskoj temperaturi (EN 12098-3:2002)  
Controls for heating systems – Part 3: Outside  
temperature compensated control equipment for  
electrical heating systems (EN 12098-3:2002)  
- zamijenjena s: HRN EN 12098-3:2013

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

HRN EN 15804:2012 en  
Održivost građevina – Izjava zaštite okoliša –  
Osnovna pravila za kategorizaciju građevnih  
proizvoda (EN 15804:2012)  
Sustainability of construction works – Environmental  
product declarations – Core rules for the product  
category of construction products (EN 15804:2012)  
- zamijenjena s: HRN EN 15804:2013

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

HRN EN ISO 10545-9:2001 en  
Keramičke pločice – 9. dio: Određivanje otpornosti na  
toplinske promjene (ISO 10545-9:1994;  
EN ISO 10545-9:1996)  
Ceramic tiles – Part 9: Determination of resistance to  
thermal shock (ISO 10545-9:1994;  
EN ISO 10545-9:1996)  
- zamijenjena s: HRN EN ISO 10545-9:2013

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

HRN EN 295-10:2005 en  
Keramičke cijevi, oblikovni komadi i cijevni priključci  
za odvodne i kanalizacijske sustave – 10. dio:  
Izvedbeni zahtjevi (EN 295-10:2005)

Vitrified clay pipes and fittings and pipe joints  
for drains and sewers – Part 10: Performance  
requirements (EN 295-10:2005)  
- zamijenjena s: HRN EN 295-1:2013,  
HRN EN 295-2:2013, HRN EN 295-4:2013,  
HRN EN 295-5:2013, HRN EN 295-6:2013 i  
HRN EN 295-7:2013.

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

HRN EN 1041:2008 en  
Informacije koje daje proizvođač medicinskih  
proizvoda (EN 1041:2008)  
Information supplied by the manufacturer of medical  
devices (EN 1041:2008)  
- zamijenjena s: HRN EN 1041:2013

HRN EN ISO 14971:2010 en  
Medicinski proizvodi – Primjena upravljanja rizikom za  
medicinske proizvode (ISO 14971:2007, ispravljena  
verzija 2007-10-01; EN ISO 14971:2009)  
Medical devices – Application of risk management to  
medical devices (ISO 14971:2007, corrected version  
2007-10-01; EN ISO 14971:2009)  
- zamijenjena s: HRN EN ISO 14971:2012

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

HRN EN ISO 17249:2004 en  
Sigurnosna obuća otporna na zarezivanje lančanom  
pilom (ISO 17249:2004; EN ISO 17249:2004)  
Safety footwear with resistance to chain saw cutting  
(ISO 17249:2004; EN ISO 17249:2004)  
- zamijenjena s: HRN EN ISO 17249:2013

HRN EN ISO 17249:2004/A1:2007 en  
Sigurnosna obuća otporna na zarezivanje lančanom  
pilom – Amandman 1 (ISO 17249:2004/Amd 1:2007;  
EN ISO 17249:2004/A1:2007)  
Safety footwear with resistance to chain saw cutting –  
Amendment 1 (ISO 17249:2004/Amd 1:2007;  
EN ISO 17249:2004/A1:2007)  
- zamijenjena s: HRN EN ISO 17249:2013

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

HRS CEN/TS 13547:2008 en  
Industrijski zaporni uređaji – Kuglaste slavine od  
bakrenih slitina (CEN/TS 13547:2006)  
Industrial valves – Copper alloy ball valves  
(CEN/TS 13547:2006)  
- zamijenjena s: HRN EN 13547:2013

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

HRN ISO 2076:2011 en  
Tekstil – Umjetna vlakna – Generički nazivi  
(ISO 2076:2010)  
Textiles – Man-made fibres – Generic names  
(ISO 2076:2010)  
- zamijenjena s: HRN EN ISO 2076:2013

HRN EN 13402-3:2008 en  
Označavanje veličina odjeće – 3. dio: Mjere i intervali  
(EN 13402-3:2004)  
Size designation of clothes – Part 3: Measurements  
and intervals (EN 13402-3:2004)  
- zamijenjena s: HRN EN 13402-3:2013

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

HRN EN 1801:2002 en  
Prenosive plinske boce – Uvjeti punjenja pojedinačnih  
acetilenskih boca (EN 1801:1998)  
Transportable gas cylinders – Filling conditions for  
single acetylene cylinders (EN 1801:1998)  
- zamijenjena s: HRN EN ISO 11372:2012

HRN EN 1801:2002/Ispr.1:2008 en  
Prenosive plinske boce – Uvjeti punjenja pojedinačnih acetilenskih boca (EN 1801:1998/AC:1999)  
Transportable gas cylinders – Filling conditions for single acetylene cylinders (EN 1801:1998/AC:1999)  
- zamijenjena s: HRN EN ISO 11372:2012

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

HRN EN ISO 3657:2007 en  
Životinjske i biljne masti i ulja – Određivanje broja osapunjenja (ISO 3657:2002; EN ISO 3657:2003)  
Animal and vegetable fats and oils – Determination of saponification value (ISO 3657:2002; EN ISO 3657:2003)  
- zamijenjena s: HRN EN ISO 3657:2013

HRN EN ISO 3961:2011 en  
Životinjske i biljne masti i ulja – Određivanje jednog broja (ISO 3961:2009; EN ISO 3961:2011)  
Animal and vegetable fats and oils – Determination of iodine value (ISO 3961:2009; EN ISO 3961:2011)  
- zamijenjena s: HRN EN ISO 3961:2013

### **HZN/TO 566, *Mlijeko i mliječni proizvodi***

HRN EN ISO 11816-1:2007 en  
Mlijeko i mliječni proizvodi – Određivanje aktivnosti alkalne fosfataze – 1. dio: Fluorometrijska metoda za mlijeko i napitke na osnovi mlijeka (ISO 11816-1:2006; EN ISO 11816-1:2006)  
Milk and milk products – Determination of alkaline phosphatase activity – Part 1: Fluorimetric method for milk and milk-based drinks (ISO 11816-1:2006; EN ISO 11816-1:2006)  
- zamijenjena s: HRN EN ISO 11816-1:2013

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

HRN EN ISO 4833:2008 en  
Mikrobiologija hrane i stočne hrane – Horizontalna metoda za brojenje mikroorganizama – Tehnika brojenja kolonija na 30 °C (ISO 4833:2003; EN ISO 4833:2003)  
Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of microorganisms – Colony-count technique at 30 degrees C (ISO 4833:2003; EN ISO 4833:2003)  
- zamijenjena s: HRN EN ISO 4833-1:2013

HRN EN 12393-1:2008 en  
Hrana biljnog porijekla – Multirezidualne metode za određivanje ostataka pesticida plinskom kromatografijom – 1. dio: Opća razmatranja (EN 12393-1:2008)  
Foods of plant origin – Multiresidue methods for the gas chromatographic determination of pesticide residues – Part 1: General considerations (EN 12393-1:2008)  
- zamijenjena s: HRN EN 12393-1:2013

HRN EN 12393-2:2008 en  
Hrana biljnog porijekla – Multirezidualne metode za određivanje ostataka pesticida plinskom kromatografijom – 2. dio: Metode ekstrakcije i čišćenja (EN 12393-2:2008)  
Foods of plant origin – Multiresidue methods for the gas chromatographic determination of pesticide residues – Part 2: Methods for extraction and cleanup (EN 12393-2:2008)  
- zamijenjena s: HRN EN 12393-2:2013

HRN EN 12393-3:2008 en  
Hrana biljnog porijekla – Multirezidualne metode za određivanje ostataka pesticida plinskom kromatografijom – 3. dio: Određivanje i potvrdna ispitivanja (EN 12393-3:2008)

Foods of plant origin – Multiresidue methods for the gas chromatographic determination of pesticide residues – Part 3: Determination and confirmatory tests (EN 12393-3:2008)  
- zamijenjena s: HRN EN 12393-3:2013

HRN EN 13804:2003 en  
Namirnice – Određivanje elemenata u tragovima – Izvedbeni kriteriji, opća razmatranja i priprava uzorka (EN 13804:2002)  
Foodstuffs – Determination of trace elements – Performance criteria, general considerations and sample preparation (EN 13804:2002)  
- zamijenjena s: HRN EN 13804:2013

### **HZN/TO 571, *Sport, igrališta i ostali rekreacijski sadržaji i oprema***

HRN EN 12270:2004 en  
Planinarska oprema – Zaglavci – Sigurnosni zahtjevi i metode ispitivanja (EN 12270:1998)  
Mountaineering equipment – Chocks – Safety requirements and test methods (EN 12270:1998)  
- zamijenjena s: HRN EN 12270:2013

HRN EN 12276:2004 en  
Planinarska oprema – Tarne naprave za sidrenje – Sigurnosni zahtjevi i metode ispitivanja (EN 12276:1998)  
Mountaineering equipment – Frictional anchors – Safety requirements and test methods (EN 12276:1998)  
- zamijenjena s: HRN EN 12276:2013

HRN EN 12276:2004/Ispr.1:2008 en  
Planinarska oprema – Tarne naprave za sidrenje – Sigurnosni zahtjevi i metode ispitivanja (EN 12276:1998/AC:2000)  
Mountaineering equipment – Frictional anchors – Safety requirements and test methods (EN 12276:1998/AC:2000)  
- zamijenjena s: HRN EN 12276:2013

HRN EN 13451-3:2012 en  
Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features (EN 13451-3:2011)  
- zamijenjena s: HRN EN 13451-3:2013

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

HRS IEC/TS 60076-14:2008 en  
Energetski transformatori – 14. dio: Izvedba i primjena energetskih transformatora napunjenih uljem i s izolacijskim materijalima za visoke temperature (IEC/TS 60076-14:2004)  
Power transformers – Part 14: Design and application of liquid-immersed power transformers using high-temperature insulation materials (IEC/TS 60076-14:2004)  
- zamijenjena s: HRN EN 60076-14:2013

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

HRN EN 60454-2:2005 en  
Specifikacije za ljepeve trake osjetljive na pritisak za uporabu u elektrotehnici – 2. dio: Metode ispitivanja (IEC 60454-2:1994; EN 60454-2:1995)  
Specification for pressure-sensitive adhesive tapes for electrical purposes – Part 2: Methods of test (IEC 60454-2:1994; EN 60454-2:1995)  
- zamijenjena s: HRN EN 60454-2:2008

HRN EN 60454-3-11:2005 en  
Ljepljive trake osjetljive na pritisak za uporabu u elektrotehnici – 3. dio: Specifikacije za pojedinačne materijale – 11. list: Kombinirane trake izrađene od celuloznog krep-papira i polietilenske folije s ljepilom na bazi termoreaktivne gume (IEC 60454-3-11:1998; EN 60454-3-11:1998)  
Pressure-sensitive adhesive tapes for electrical purposes – Part 3: Specifications for individual materials – Sheet 11: Combination tapes made of creped cellulosic paper and polyethylene terephthalate film with rubber thermosetting adhesive (IEC 60454-3-11:1998; EN 60454-3-11:1998)  
- zamijenjena s: HRN EN 60454-3-11:2008

HRN EN 60454-3-4:2005 en  
Ljepljive trake osjetljive na pritisak za uporabu u elektrotehnici – 3. dio: Specifikacije za pojedinačne materijale – 4. list: Celulozni krep papir s ljepilom na bazi termoreaktivne gume (IEC 60454-3-4:1998; EN 60454-3-4:1998)  
Pressure-sensitive adhesive tapes for electrical purposes – Part 3: Specifications for individual materials – Sheet 4: Cellulosic paper, creped, with rubber thermosetting adhesive (IEC 60454-3-4:1998; EN 60454-3-4:1998)  
- zamijenjena s: HRN EN 60454-3-4:2008

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

HRN EN 61121:2004 en  
Bubnjaste sušilice rublja za kućansku uporabu – Metode mjerenja radnih značajka (IEC 61121:1997, preinačena; EN 61121:1999+Corr.:2000+A11:2000)  
Tumble dryers for household use – Methods for measuring the performance (IEC 61121:1997, modified; EN 61121:1999+Corr.:2000+A11:2000)  
- zamijenjena s: HRN EN 61121:2008

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

HRN IEC 60364-7-709:1999 en  
Električne instalacije zgrada – 7. dio: Zahtjevi za posebne instalacije ili prostore – 709. odjeljak: Marine i brodovi za razonodu (IEC 60364-7-709:1994)  
Electrical installations of buildings – Part 7: Requirements for special installations or locations – Section 709: Marinas and pleasure craft (IEC 60364-7-709:1994)  
- zamijenjena s: HRN HD 60364-7-709:2010

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

HRN EN 50263:2008 en  
Elektromagnetska kompatibilnost (EMC) – Proizvodna norma za mjerne releje i zaštitnu opremu (EN 50263:1999)  
Electromagnetic compatibility (EMC) – Product standard for measuring relays and protection equipment (EN 50263:1999)  
- zamijenjena s: HRN EN 60255-26:2013

HRN EN 60255-22-1:2008 en  
Električni releji – Dio 22-1: Ispitivanja na električne smetnje kod mjernih releja i zaštitne opreme – Ispitivanja otpornosti na kratke signale frekvencije 1MHz (IEC 60255-22-1:2005; EN 60255-22-1:2005)  
Electrical relays – Part 22-1: Electrical disturbance tests for measuring relays and protection equipment – 1 MHz burst immunity tests (IEC 60255-22-1:2005; EN 60255-22-1:2005)  
- zamijenjena s: HRN EN 60255-22-1:2009

HRN EN 60255-22-2:2008 en  
Električni releji – 22. dio: Ispitivanja na električne smetnje mjernih releja i zaštitne opreme – 2. odjeljak: Ispitivanja elektrostatskih pražnjenja (IEC 60255-22-2:1996; EN 60255-22-2:1996)  
Electrical relays – Part 22: Electrical disturbance tests for measuring relays and protection equipment – Section 2: Electrostatic discharge tests (IEC 60255-22-2:1996; EN 60255-22-2:1996)  
- zamijenjena s: HRN EN 60255-22-2:2009

HRN EN 60255-22-4:2008 en  
Električni releji – Dio 22-4: Ispitivanja na električne smetnje mjernih releja i zaštitne opreme – Ispitivanje otpornosti na brze električne prijelazne pojave/impulse (IEC 60255-22-4:2002; EN 60255-22-4:2002)  
Electrical relays – Part 22-4: Electrical disturbance tests for measuring relays and protection equipment – Electrical fast transient/burst immunity test (IEC 60255-22-4:2002; EN 60255-22-4:2002)  
- zamijenjena s: HRN EN 60255-22-4:2009

HRN EN 60255-26:2008 en  
Električni releji – 26. dio: Zahtjevi na elektromagnetsku kompatibilnost za mjerne releje i zaštitnu opremu (IEC 60255-26:2004; EN 60255-26:2005)  
Electrical relays – Part 26: Electromagnetic compatibility requirements for measuring relays and protection equipment (IEC 60255-26:2004; EN 60255-26:2005)  
- zamijenjena s: HRN EN 60255-26:2013

### **HZN/TO Z2, *Ocjnjivanje sukladnosti i akreditacija***

HRU ISO/IEC Guide 67:2009 en  
Ocjnjivanje sukladnosti – Osnove certifikacije proizvoda (ISO/IEC Guide 67:2004)  
Conformity assessment – Fundamentals of product certification (ISO/IEC Guide 67:2004)  
- zamijenjena s: HRN EN ISO/IEC 17067:2013

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

HRN EN ISO 6165:2008 en,fr  
Earth-moving machinery – Basic types – Identification and terms and definitions (ISO 6165:2006; EN ISO 6165:2006)  
- zamijenjena s: HRN EN ISO 6165:2013

HRN EN ISO 16851:2008 en  
Textile conveyor belts – Determination of the net length of an endless (spliced) conveyor belt (ISO 16851:2004; EN ISO 16851:2004)  
- zamijenjena s: HRN EN ISO 16851:2013

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

HRN EN ISO 1564:2004 en  
Stomatološki hidrokolojni materijali za otiske na temelju agara (ISO 1564:1995; EN ISO 1564:1998)  
Dental aqueous impression materials based on agar (ISO 1564:1995; EN ISO 1564:1998)  
- zamijenjena s: HRN EN ISO 21563:2013

HRN EN ISO 13716:2008 en  
Stomatologija – Sustavi reverzibilno-ireverzibilnih hidrokolojnih materijala za otiske (ISO 13716:1999; EN ISO 13716:2000)  
Dentistry – Reversible-irreversible hydrocolloid impression material systems (ISO 13716:1999; EN ISO 13716:2000)  
- zamijenjena s: HRN EN ISO 21563:2013

HRN EN 21563:2008 en  
Alginatni materijal za zubne otiske (ISO 1563:1990; EN 21563:1991)  
Alginate dental impression material (ISO 1563:1990; EN 21563:1991)  
- zamijenjena s: HRN EN ISO 21563:2013

## 1.6 Ispravci hrvatskih norma

U popisima hrvatskih norma objavljenim u ranijim brojevima službenog glasila potkrale su se pogreške.

Niže navodimo ispravne oznake i naslove hrvatskih norma.

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

- **umjesto**

HRN EN 13286-2:2010

Nevezane i hidrauličnim vezivom vezane mješavine – 2. dio: Metode ispitivanja za određivanje laboratorijske **suhe** gustoće i udjela vode – Zbijanje prema Proctoru (EN 13286-2:2010)

Unbound and hydraulically bound mixtures – Part 2: Test methods for laboratory **dry** density and water content – Proctor compaction (EN 13286-2:2010)

- **treba biti**

HRN EN 13286-2:2010

Nevezane i hidrauličnim vezivom vezane mješavine – 2. dio: Metode ispitivanja za određivanje laboratorijske **referentne** gustoće i udjela vode – Zbijanje prema Proctoru (EN 13286-2:2010)

Unbound and hydraulically bound mixtures – Part 2: Test methods for laboratory **reference** density and water content – Proctor compaction (EN 13286-2:2010)

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

- **umjesto**

HRN EN 60371-3-7:2005

**Izolacijski materijali na temelju tinjca** – 3. dio: Specifikacije za pojedinačne materijale – 7. list: Tinjčev papir na poliesterskoj foliji s epoksidnom smolom kao vezivom, za oblaganje vodiča (IEC 60371-3-7:1995+Corr.1:1995; EN 60371-3-7:1995)

**Insulating materials based on mica** – Part 3: Specifications for individual materials – Sheet 7: Polyester film mica paper with an epoxy resin binder for single conductor taping (IEC 60371-3-7:1995+Corr.1:1995; EN 60371-3-7:1995)

- **treba biti**

HRN EN 60371-3-7:2005

**Specifikacija za izolacijske materijale na temelju tinjca** – 3. dio: Specifikacije za pojedinačne materijale – 7. list: Tinjčev papir na poliesterskoj foliji s epoksidnom smolom kao vezivom, za jednoslojno oblaganje vodiča (IEC 60371-3-7:1995+Corr.1:1995; EN 60371-3-7:1995)

**Specification for insulating materials based on mica** – Part 3: Specifications for individual materials - Sheet 7: Polyester film mica paper with an epoxy resin binder for single conductor taping (IEC 60371-3-7:1995+Corr.1:1995; EN 60371-3-7:1995)

- **umjesto**

HRN EN 60455-3-5:2008

**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 3. dio: Specifikacije za pojedinačne materijale – 5. list: Nezasićene poliesterske impregnacijske smole (IEC 60455-3-5:2006; EN 60455-3-5:2006)

Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 5: Unsaturated polyester based impregnating resins (IEC 60455-3-5:2006; EN 60455-3-5:2006)

- **treba biti**

HRN EN 60455-3-5:2008

**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 3. dio: Specifikacije za pojedinačne materijale – 5. list: Nezasićene poliesterske impregnacijske smole (IEC 60455-3-5:2006; EN 60455-3-5:2006)

Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 5: Unsaturated polyester based impregnating resins (IEC 60455-3-5:2006; EN 60455-3-5:2006)

- **umjesto**

HRN EN 60641-2:2005

**Specifikacija za prešane** ploče i prešpan za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60641-2:2004; EN 60641-2:2004)

**Specification for pressboard** and presspaper for electrical purposes – Part 2: Methods of test (IEC 60641-2:2004; EN 60641-2:2004)

- **treba biti**

HRN EN 60641-2:2005

**Prešane** ploče i prešpan za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60641-2:2004; EN 60641-2:2004)

**Pressboard** and presspaper for electrical purposes – Part 2: Methods of test (IEC 60641-2:2004; EN 60641-2:2004)

- **umjesto**

HRN EN 60893-2:2005

**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60893-2:2003; EN 60893-2:2004)

**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – Part 2: Methods of test (IEC 60893-2:2003; EN 60893-2:2004)

- **treba biti**

HRN EN 60893-2:2005

**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60893-2:2003; EN 60893-2:2004)

**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes - Part 2: Methods of test (IEC 60893-2:2003; EN 60893-2:2004)

- **umjesto**

HRN EN 61086-3-1:2005

**Specifikacija za prevlake tiskane ploče** (konformalno prekrivanje) – **3.-1. dio:** Specifikacije za pojedinačne materijale – Prevlake za opću namjenu (1. razred), veliku pouzdanost (2. razred) i zračni prostor (3. razred) (IEC 61086-3-1:2004; EN 61086-3-1:2004)

Coatings for loaded printed wire boards (conformal coatings) – Part 3-1: Specifications for individual materials – Coatings for general purpose (Class 1), high reliability (Class 2) and aerospace (Class 3) (IEC 61086-3-1:2004; EN 61086-3-1:2004)

- **treba biti**

HRN EN 61086-3-1:2005

**Prevlake tiskanih ploča** (konformalno prekrivanje) – **Dio 3-1:** Specifikacije za pojedinačne materijale – Prevlake za opću namjenu (1. razred), veliku pouzdanost (2. razred) i zračni prostor (3. razred) (IEC 61086-3-1:2004; EN 61086-3-1:2004)

- Coatings for loaded printed wire boards (conformal coatings) – Part 3-1: Specifications for individual materials – Coatings for general purpose (Class 1), high reliability (Class 2) and aerospace (Class 3) (IEC 61086-3-1:2004; EN 61086-3-1:2004)
- **umjesto**
- HRN EN 61086-1:2005  
**Specifikacija za prevlake tiskane ploče** (konformalno prekrivanje) – 1. dio: Definicije, razredba i opći zahtjevi (IEC 61086-1:2004; EN 61086-1:2004)  
**Specification for coatings** for loaded printed wire boards (conformal coatings) – Part 1: Definitions, classification and general requirements (IEC 61086-1:2004; EN 61086-1:2004)
- **treba biti**
- HRN EN 61086-1:2005  
**Prevlake tiskanih ploča** (konformalno prekrivanje) – 1. dio: Definicije, razredba i opći zahtjevi (IEC 61086-1:2004; EN 61086-1:2004)  
**Coatings** for loaded printed wire boards (conformal coatings) – Part 1: Definitions, classification and general requirements (IEC 61086-1:2004; EN 61086-1:2004)
- **umjesto**
- HRN EN 61086-2:2005  
**Specifikacija za prevlake tiskane ploče** (konformalno prekrivanje) – 2. dio: Metode ispitivanja (IEC 61086-2:2004; EN 61086-2:2004)  
**Specification for coatings** for loaded printed wire boards (conformal coatings) – Part 2: Methods of test (IEC 61086-2:2004; EN 61086-2:2004)
- **treba biti**
- HRN EN 61086-2:2005  
**Prevlake tiskanih ploča** (konformalno prekrivanje) – 2. dio: Metode ispitivanja (IEC 61086-2:2004; EN 61086-2:2004)  
**Coatings** for loaded printed wire boards (conformal coatings) – Part 2: Methods of test (IEC 61086-2:2004; EN 61086-2:2004)
- **umjesto**
- HRN EN 60893-1:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – 1. dio: Definicije, označivanje i opći zahtjevi (IEC 60893-1:2004; EN 60893-1:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – Part 1: Definitions, designations and general requirements (IEC 60893-1:2004; EN 60893-1:2004)
- **treba biti**
- HRN EN 60893-1:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – 1. dio: Definicije, označivanje i opći zahtjevi (IEC 60893-1:2004; EN 60893-1:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – Part 1: Definitions, designations and general requirements (IEC 60893-1:2004; EN 60893-1:2004)
- **umjesto**
- HRN EN 60893-3-7:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **7. list:** Zahtjevi za krute laminirane listove na bazi poliamidnih smola (IEC 60893-3-7:2003; EN 60893-3-7:2004)
- Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 7:** Requirements for rigid laminated sheets based on polyimide resins (IEC 60893-3-7:2003; EN 60893-3-7:2004)
- **treba biti**
- HRN EN 60893-3-7:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-7:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi poliamidnih smola (IEC 60893-3-7:2003; EN 60893-3-7:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-7:** Specifications for individual materials – Requirements for rigid laminated sheets based on polyimide resins (IEC 60893-3-7:2003; EN 60893-3-7:2004)
- **umjesto**
- HRN EN 60893-3-4:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **4. list:** Zahtjevi za krute laminirane listove na bazi fenolnih smola (IEC 60893-3-4:2003; EN 60893-3-4:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 4:** Requirements for rigid laminated sheets based on phenolic resins (IEC 60893-3-4:2003; EN 60893-3-4:2004)
- **treba biti**
- HRN EN 60893-3-4:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-4:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi fenolnih smola (IEC 60893-3-4:2003; EN 60893-3-4:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-4:** Specifications for individual materials – Requirements for rigid laminated sheets based on phenolic resins (IEC 60893-3-4:2003; EN 60893-3-4:2004)
- **umjesto**
- HRN EN 60893-3-5:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **5. list:** Zahtjevi za krute laminirane listove na bazi poliesternih smola (IEC 60893-3-5:2003; EN 60893-3-5:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 5:** Requirements for rigid laminated sheets based on polyester resins (IEC 60893-3-5:2003; EN 60893-3-5:2004)
- **treba biti**
- HRN EN 60893-3-5:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-5:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi poliesternih smola (IEC 60893-3-5:2003; EN 60893-3-5:2004)



- Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-5:** Specifications for individual materials – Requirements for rigid laminated sheets based on polyester resins (IEC 60893-3-5:2003; EN 60893-3-5:2004)
- **umjesto**
- HRN EN 60893-3-6:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **6. list:** Zahtjevi za krute laminirane listove na bazi silikonskih smola (IEC 60893-3-6:2003; EN 60893-3-6:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 6:** Requirements for rigid laminated sheets based on silicone resins (IEC 60893-3-6:2003; EN 60893-3-6:2004)
- **treba biti**
- HRN EN 60893-3-6:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-6:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi silikonskih smola (IEC 60893-3-6:2003; EN 60893-3-6:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-6:** Specifications for individual materials – Requirements for rigid laminated sheets based on silicone resins (IEC 60893-3-6:2003; EN 60893-3-6:2004)
- **umjesto**
- HRN EN 60893-3-1:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **1. list:** Tipovi industrijski izrađenih krutih laminiranih listova (IEC 60893-3-1:2003; EN 60893-3-1:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 1:** Types of industrial rigid laminated sheets (IEC 60893-3-1:2003; EN 60893-3-1:2004)
- **treba biti**
- HRN EN 60893-3-1:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-1:** Specifikacije za pojedinačne materijale – Tipovi industrijski izrađenih krutih laminiranih listova (IEC 60893-3-1:2003; EN 60893-3-1:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-1:** Specifications for individual materials – Requirements for types of industrial rigid laminated sheets (IEC 60893-3-1:2003; EN 60893-3-1:2004)
- **umjesto**
- HRN EN 60893-3-2:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **2. list:** Zahtjevi za krute laminirane listove na bazi epoksidnih smola (IEC 60893-3-2:2003; EN 60893-3-2:2004)
- Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 2:** Requirements for rigid laminated sheets based on epoxide resins (IEC 60893-3-2:2003; EN 60893-3-2:2004)
- **treba biti**
- HRN EN 60893-3-2:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-2:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi epoksidnih smola (IEC 60893-3-2:2003; EN 60893-3-2:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-2:** Specifications for individual materials – Requirements for rigid laminated sheets based on epoxy resins (IEC 60893-3-2:2003; EN 60893-3-2:2004)
- **umjesto**
- HRN EN 60893-3-3:2005  
**Specifikacija za industrijski izrađene krute laminirane listove** na bazi termoreaktivnih smola za elektrotehničke svrhe – **3. dio:** Specifikacije za pojedinačne materijale – **3. list:** Zahtjevi za krute laminirane listove na bazi melaminskih smola (IEC 60893-3-3:2003; EN 60893-3-3:2004)  
**Specification for industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3:** Specifications for individual materials – **Sheet 3:** Requirements for rigid laminated sheets based on melamine resins (IEC 60893-3-3:2003; EN 60893-3-3:2004)
- **treba biti**
- HRN EN 60893-3-3:2005  
**Izolacijski materijali – Industrijski izrađeni kruti laminirani listovi** na bazi termoreaktivnih smola za elektrotehničke svrhe – **Dio 3-3:** Specifikacije za pojedinačne materijale – Zahtjevi za krute laminirane listove na bazi melaminskih smola (IEC 60893-3-3:2003; EN 60893-3-3:2004)  
**Insulating materials – Industrial rigid laminated sheets** based on thermosetting resins for electrical purposes – **Part 3-3:** Specifications for individual materials – Requirements for rigid laminated sheets based on melamine resins (IEC 60893-3-3:2003; EN 60893-3-3:2004)
- **umjesto**
- HRN EN 60684-1:2005  
**Specifikacija za savitljive izolacijske navlake** – 1. dio: Definicije i opći zahtjevi (IEC 60684-1:2003; EN 60684-1:2003)  
**Specification for flexible insulating sleeving** – Part 1: Definitions and general requirements (IEC 60684-1:2003; EN 60684-1:2003)
- **treba biti**
- HRN EN 60684-1:2005  
**Savitljive izolacijske navlake** – 1. dio: Definicije i opći zahtjevi (IEC 60684-1:2003; EN 60684-1:2003)  
**Flexible insulating sleeving** – Part 1: Definitions and general requirements (IEC 60684-1:2003; EN 60684-1:2003)
- **umjesto**
- HRN EN 60455-3-2:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 3. dio: Specifikacije za pojedinačne materijale – 2. list: Mješavine epoksidnih smola s kvarcnim punilom (IEC 60455-3-2:2003; EN 60455-3-2:2003)

- Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 2: Quartz filled epoxy resinous compounds (IEC 60455-3-2:2003; EN 60455-3-2:2003)
- **treba biti**
- HRN EN 60455-3-2:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 3. dio: Specifikacije za pojedinačne materijale – 2. list: Mješavine epoksidnih smola s kvarcnim punilom (IEC 60455-3-2:2003; EN 60455-3-2:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 2: Quartz filled epoxy resinous compounds (IEC 60455-3-2:2003; EN 60455-3-2:2003)
- **umjesto**
- HRN EN 60455-3-1:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 3. dio: Specifikacije za pojedinačne materijale – 1. list: Mješavine epoksidnih smola bez punila (IEC 60455-3-1:2003; EN 60455-3-1:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 1: Unfilled epoxy resinous compounds (IEC 60455-3-1:2003; EN 60455-3-1:2003)
- **treba biti**
- HRN EN 60455-3-1:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 3. dio: Specifikacije za pojedinačne materijale – 1. list: Mješavine epoksidnih smola bez punila (IEC 60455-3-1:2003; EN 60455-3-1:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 1: Unfilled epoxy resinous compounds (IEC 60455-3-1:2003; EN 60455-3-1:2003)
- **umjesto**
- HRN EN 60455-3-3:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 3. dio: Specifikacije za pojedinačne materijale – 3. list: Poliuretanska mješavina bez punila (IEC 60455-3-3:2003; EN 60455-3-3:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 3: Unfilled polyurethane compounds (IEC 60455-3-3:2003; EN 60455-3-3:2003)
- **treba biti**
- HRN EN 60455-3-3:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 3. dio: Specifikacije za pojedinačne materijale – 3. list: Poliuretanska mješavina bez punila (IEC 60455-3-3:2003; EN 60455-3-3:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 3: Unfilled polyurethane compounds (IEC 60455-3-3:2003; EN 60455-3-3:2003)
- **umjesto**
- HRN EN 60455-3-4:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 3. dio: Specifikacije za pojedinačne materijale – 4. list: Poliuretanska mješavina s punilima (IEC 60455-3-4:2003; EN 60455-3-4:2003)
- Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 4: Filled polyurethane compounds (IEC 60455-3-4:2003; EN 60455-3-4:2003)
- **treba biti**
- HRN EN 60455-3-4:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 3. dio: Specifikacije za pojedinačne materijale – 4. list: Poliuretanska mješavina s punilima (IEC 60455-3-4:2003; EN 60455-3-4:2003)  
 Resin based reactive compounds used for electrical insulation – Part 3: Specifications for individual materials – Sheet 4: Filled polyurethane compounds (IEC 60455-3-4:2003; EN 60455-3-4:2003)
- **umjesto**
- HRN EN 60455-2:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 2. dio: Metode ispitivanja (IEC 60455-2:1998; EN 60455-2:1999)  
 Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:1998; EN 60455-2:1999)
- **treba biti**
- HRN EN 60455-2:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 2. dio: Metode ispitivanja (IEC 60455-2:1998; EN 60455-2:1999)  
 Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:1998; EN 60455-2:1999)
- **umjesto**
- HRN EN 60455-1:2005  
**Smole na bazi reaktivnih mješavina** koje se upotrebljavaju za električne izolacije – 1. dio: Definicije i opći zahtjevi (IEC 60455-1:1998; EN 60455-1:1998)  
 Resin based reactive compounds used for electrical insulation – Part 1: Definitions and general requirements (IEC 60455-1:1998; EN 60455-1:1998)
- **treba biti**
- HRN EN 60455-1:2005  
**Reaktivne mješavine na bazi smola** koje se upotrebljavaju za električnu izolaciju – 1. dio: Definicije i opći zahtjevi (IEC 60455-1:1998; EN 60455-1:1998)  
 Resin based reactive compounds used for electrical insulation – Part 1: Definitions and general requirements (IEC 60455-1:1998; EN 60455-1:1998)
- **umjesto**
- HRN EN 60684-3-409:2005  
**Specifikacija za savitljive izolacijske navlake** – 3. dio: Specifikacija zahtjeva za pojedinačne tipove navlaka – 409. list: Navlake od staklenih niti s prevlakom na bazi poliuretana (PUR) (IEC 60684-3-409:1999; EN 60684-3-409:1999)  
 Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 409: Glass textile sleeving with polyurethane (PUR)-based coating (IEC 60684-3-409:1999; EN 60684-3-409:1999)
- **treba biti**
- HRN EN 60684-3-409:2005  
**Savitljive izolacijske navlake** – 3. dio: Specifikacija zahtjeva za pojedinačne tipove navlaka – 409. list: Navlake od staklenih niti s prevlakom na bazi poliuretana (PUR) (IEC 60684-3-409:1999; EN 60684-3-409:1999)  
 Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 409: Glass textile sleeving with polyurethane (PUR)-based coating (IEC 60684-3-409:1999; EN 60684-3-409:1999)

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

- **umjesto**  
HRN EN 61121:2013  
Električne bubnjaste sušilice rublja za kućansku i **sličnu** uporabu – Ispitne metode za mjerenje radnih značajka (IEC 61121:2012, MOD; EN 61121:2013)  
Tumble dryers for household use – Methods for measuring the performance (IEC 61121:2012, MOD; EN 61121:2013)
- **treba biti**  
HRN EN 61121:2013  
Električne bubnjaste sušilice rublja za kućansku uporabu – Ispitne metode za mjerenje radnih značajka (IEC 61121:2012, MOD; EN 61121:2013)  
Tumble dryers for household use – Methods for measuring the performance (IEC 61121:2012, MOD; EN 61121:2013)
- **umjesto**  
HRN EN 61121:2008  
Električne bubnjaste sušilice rublja za kućansku i **sličnu** uporabu – Ispitne metode za mjerenje radnih značajka (IEC 61121:2002, MOD; EN 61121:2005)  
Tumble dryers for household use – Methods for measuring the performance (IEC 61121:2002, MOD; EN 61121:2005)
- **treba biti**  
HRN EN 61121:2008  
Električne bubnjaste sušilice rublja za kućansku uporabu – Ispitne metode za mjerenje radnih značajka (IEC 61121:2002, MOD; EN 61121:2005)  
Tumble dryers for household use – Methods for measuring the performance (IEC 61121:2002, MOD; EN 61121:2005)

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

- **umjesto**  
HRN EN 60255-26:2013  
Mjerni releji i zaštitna oprema – 26. dio: Zahtjevi za elektromagnetsku kompatibilnost (IEC 60255-26:2013; EN 60255-26:2013)  
Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements (IEC 60255-26:2013; EN 60255-26:2013)
- **treba biti**  
HRN EN 60255-26:2013  
Mjerni releji i zaštitna oprema – 26. dio: Zahtjevi za elektromagnetsku kompatibilnost (IEC 60255-26:2008; EN 60255-26:2009)  
Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements (IEC 60255-26:2008; EN 60255-26:2009)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

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

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

- HRN EN ISO 8224-1:2008  
Pokretni strojevi za navodnjavanje – 1. dio: Radne karakteristike i metode laboratorijskih i terenskih ispitivanja (ISO 8224-1:2003; EN ISO 8224-1:2003)  
Traveller irrigation machines – Part 1: Operational characteristics and laboratory and field test methods (ISO 8224-1:2003; EN ISO 8224-1:2003)

- HRN EN ISO 8224-1:2008/A1:2011  
Pokretni strojevi za navodnjavanje – 1. dio: Radne karakteristike i metode laboratorijskih i terenskih ispitivanja – Amandman 1 (ISO 8224-1:2003/Amd 1:2011; 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; EN ISO 8224-1:2003/A1:2011)
- HRN EN ISO 9261:2010  
Oprema za navodnjavanje u poljoprivredi – Emileri i cijevi za zalijevanje – Specifikacija i metode ispitivanja (ISO 9261:2004; EN ISO 9261:2010)  
Agricultural irrigation equipment – Emitters and emitting pipe – Specification and test methods (ISO 9261:2004; EN ISO 9261:2010)
- HRN EN ISO 11545:2010  
Oprema za navodnjavanje u poljoprivredi – Strojevi za navodnjavanje s kružnim i pravolinijskim kretanjem s prskalicama ili sapnicama za prskanje – Određivanje ravnomjernosti raspodjele vode (ISO 11545:2009; EN ISO 11545:2009)  
Agricultural irrigation equipment – Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles – Determination of uniformity of water distribution (ISO 11545:2009; EN ISO 11545:2009)
- HRN EN 12324-1:2008  
Tehnika navodnjavanja – Sustavi strojeva za navodnjavanje – 1. dio: Serije veličina (EN 12324-1:1998)  
Irrigation techniques – Reel machine systems – Part 1: Size series (EN 12324-1:1998)
- HRN EN 12324-2:2008  
Tehnika navodnjavanja – Sustavi strojeva za navodnjavanje – 2. dio: Specifikacije polietilenskih cijevi za strojeve za navodnjavanje (EN 12324-2:1999)  
Irrigation techniques – Reel machine systems – Part 2: Specifications of polyethylene tubes for reel machines (EN 12324-2:1999)
- HRN EN 12324-3:2008  
Tehnika navodnjavanja – Sustavi strojeva za navodnjavanje – 3. dio: Prezentacija tehničkih karakteristika (EN 12324-3:1999)  
Irrigation techniques – Reel machine systems – Part 3: Presentation of technical characteristics (EN 12324-3:1999)
- HRN EN 12324-4:2008  
Tehnika navodnjavanja – Sustavi strojeva za navodnjavanje – 4. dio: Kontrolni popis zahtjeva korisnika (EN 12324-4:1999)  
Irrigation techniques – Reel machine systems – Part 4: Check list of users requirements (EN 12324-4:1999)
- HRN EN 12325-1:2008  
Tehnika navodnjavanja – Sustavi s kružnim i pravolinijskim kretanjem – 1. dio: Prikaz tehničkih karakteristika (EN 12325-1:1998)  
Irrigation techniques – Centre pivot and moving lateral systems – Part 1: Presentation of the technical characteristics (EN 12325-1:1998)
- HRN EN 12325-2:2008  
Tehnika navodnjavanja – Sustavi s kružnim i pravolinijskim kretanjem – 2. dio: Minimalne izvedbe i tehničke karakteristike (EN 12325-2:1999+AC:1999)  
Irrigation techniques – Centre pivot and moving lateral systems – Part 2: Minimum performances and technical characteristics (EN 12325-2:1999+AC:1999)

- HRN EN 12325-3:2008  
Tehnika navodnjavanja – Sustavi s kružnim i pravolinijskim kretanjem – 3. dio: Nazivlje i razredba (EN 12325-3:1999)  
Irrigation techniques – Centre pivot and moving lateral systems – Part 3: Terminology and classification (EN 12325-3:1999)
- HRN EN 12484-1:2008  
Tehnika navodnjavanja – Automatski sustavi za navodnjavanje zelenih površina – 1. dio: Definicija programa opreme koji je sastavio vlasnik (EN 12484-1:1999)  
Irrigation techniques – Automatic turf irrigation systems – Part 1: Definition of the programme of equipment by the owner (EN 12484-1:1999)
- HRN EN 12484-2:2008  
Tehnika navodnjavanja – Automatski sustavi za navodnjavanje zelenih površina – 2. dio: Projektiranje i definicija tipičnih tehničkih obrazaca (EN 12484-2:2000)  
Irrigation techniques – Automatic turf irrigation systems – Part 2: Design and definition of typical technical templates (EN 12484-2:2000)
- HRN EN 12484-3:2008  
Tehnika navodnjavanja – Automatski sustavi za navodnjavanje zelenih površina – 3. dio: Automatska kontrola i sustav upravljanja (EN 12484-3:2000)  
Irrigation techniques – Automatic turf irrigation systems – Part 3: Automatic control and system management (EN 12484-3:2000)
- HRN EN 12484-4:2008  
Tehnika navodnjavanja – Automatski sustavi za navodnjavanje zelenih površina – 4. dio: Instalacija i prihvaćanje (EN 12484-4:2002)  
Irrigation techniques – Automatic turf irrigation systems – Part 4: Installation and acceptance (EN 12484-4:2002)
- HRN EN 12484-5:2008  
Tehnika navodnjavanja – Automatski sustavi za navodnjavanje zelenih površina – 5. dio: Metode ispitivanja sustava (EN 12484-5:2002)  
Irrigation techniques – Automatic turf irrigation systems – Part 5: Testing methods of systems (EN 12484-5:2002)
- HRN EN 12734:2008  
Tehnika navodnjavanja – Brzospajajuće cijevi za pokretne sustave za navodnjavanje – Tehničke karakteristike i ispitivanje (EN 12734:2000)  
Irrigation techniques – Quick coupling pipes for movable irrigation supply – Technical characteristics and testing (EN 12734:2000)
- HRN EN 12761-1:2008  
Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 1. dio: Općenito (EN 12761-1:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 1: General (EN 12761-1:2001)
- HRN EN 12761-2:2008  
Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 2. dio: Prskalice za zaštitu ratarskih kultura (EN 12761-2:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 2: Field crop sprayers (EN 12761-2:2001)
- HRN EN 12761-3:2008  
Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 3. dio: Prskalice sa zračnom podrškom (orošivači) za žbunje i drveće (EN 12761-3:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 3: Air-assisted sprayers for bush and tree crops (EN 12761-3:2001)
- HRN EN 13080:2008  
Poljoprivredna mehanizacija – Razbacivači gnojiva – Zaštita okoliša – Zahtjevi i metode ispitivanja (EN 13080:2002)  
Agricultural machinery – Manure spreaders – Environmental protection – Requirements and test methods (EN 13080:2002)
- HRN EN 13406:2008  
Poljoprivredna mehanizacija – Spremnici za gnojnicu i naprave za raspodjelu – Zaštita okoliša – Zahtjevi i metode ispitivanja za preciznu raspodjelu (EN 13406:2002)  
Agricultural machinery – Slurry tankers and spreading devices – Environmental protection – Requirements and test methods for the spreading precision (EN 13406:2002)
- HRN EN 13635:2008  
Tehnika navodnjavanja – Sustavi za lokalizirano navodnjavanje – Nazivlje i podaci koje daje proizvođač (EN 13635:2001)  
Irrigation techniques – Localised irrigation systems – Terminology and data to be supplied by the manufacturer (EN 13635:2001)
- HRN EN 13739-1:2012  
Poljoprivredna mehanizacija – Rasipači čvrstoga mineralnog gnojiva i raspodjeljivači s punom širinom zahvata – Zaštita okoliša – 1. dio: Zahtjevi (EN 13739-1:2011)  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 1: Requirements (EN 13739-1:2011)
- HRN EN 13739-2:2012  
Poljoprivredna mehanizacija – Rasipači čvrstoga mineralnog gnojiva i raspodjeljivači s punom širinom zahvata – Zaštita okoliša – 2. dio: Metode ispitivanja (EN 13739-2:2011)  
Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 2: Test methods (EN 13739-2:2011)
- HRN EN 13740-1:2008  
Poljoprivredna mehanizacija – Rasipači čvrstoga mineralnog gnojiva u redove – Zaštita okoliša – 1. dio: Zahtjevi (EN 13740-1:2003)  
Agricultural machinery – Solid fertilizer line-distributors – Environmental protection – Part 1: Requirements (EN 13740-1:2003)
- HRN EN 13740-2:2008  
Poljoprivredna mehanizacija – Rasipači čvrstoga mineralnog gnojiva u redove – Zaštita okoliša – 2. dio: Metode ispitivanja (EN 13740-2:2003)  
Agricultural machinery – Solid fertilizer line-distributors – Environmental protection – Part 2: Test methods (EN 13740-2:2003)
- HRN EN 13742-1:2008  
Tehnika navodnjavanja – Nepokretni sistemi za prskanje – 1. dio: Izbor, projektiranje, planiranje i ugradnja (EN 13742-1:2004)  
Irrigation Techniques – Solid set sprinkler systems – Part 1: Selection, design, planning and installation (EN 13742-1:2004)
- HRN EN 13742-2:2008  
Tehnika navodnjavanja – Nepokretni sustavi za prskanje – 2. dio: Metode ispitivanja (EN 13742-2:2004)  
Irrigation techniques – Solid set sprinkler systems – Part 2: Test methods (EN 13742-2:2004)

- HRN EN 13790-1:2008  
Poljoprivredna mehanizacija – Prskalice – Inspekcija prskalica u upotrebi – 1. dio: Prskalice za zaštitu ratarskih kultura (EN 13790-1:2003)  
Agricultural machinery – Sprayers – Inspection of sprayers in use – Part 1: Field crop sprayers (EN 13790-1:2003)
- HRN EN 13790-2:2008  
Poljoprivredna mehanizacija – Prskalice – Inspekcija prskalica u radu – 2. dio: Prskalice potpomognute zrakom (orošivači) za zaštitu grmlja i drvenih nasada (EN 13790-2:2003)  
Agricultural machinery – Sprayers – Inspection of sprayers in use – Part 2: Air-assisted sprayers for bush and tree crops (EN 13790-2:2003)
- HRN EN 13997:2008  
Tehnika navodnjavanja – Priključni i kontrolni uređaji za rad sustava za navodnjavanje – Tehničke karakteristike i ispitivanje (EN 13997:2003)  
Irrigation techniques – Connection and control accessories for use in irrigation systems – Technical characteristics and testing (EN 13997:2003)
- HRN EN 14049:2008  
Tehnika navodnjavanja – Količina upotrijebljene vode – Načela proračuna i metode mjerenja (EN 14049:2003+A1:2005)  
Irrigation techniques – Water application intensity – Calculation principles and measurement methods (EN 14049:2003+A1:2005)
- HRN EN 14267:2008  
Tehnika navodnjavanja – Hidranti (EN 14267:2004+AC:2008)  
Irrigation techniques – Irrigation hydrants (EN 14267:2004+AC:2008)
- HRN EN 14268:2008  
Tehnika navodnjavanja – Vodomeri (EN 14268:2005+AC:2007)  
Irrigation techniques – Meters for irrigation water (EN 14268:2005+AC:2007)
- HRN EN 15097:2008  
Tehnika navodnjavanja – Mjestimično navodnjavanje – Hidrauličko vrednovanje (EN 15097:2006)  
Irrigation techniques – Localised irrigation – Hydraulic evaluation (EN 15097:2006)
- HRN EN 15099-1:2008  
Tehnika navodnjavanja – Daljinsko nadgledanje i upravljanje sustavom za navodnjavanje – 1. dio: Opća razmatranja (EN 15099-1:2007)  
Irrigation techniques – Remote monitoring and control for irrigation systems – Part 1: General considerations (EN 15099-1:2007)

## **HZNTO 502, Plinski uređaji**

- HRN EN 13203-3:2012  
Solarni kućanski plinski uređaji za grijanje vode – Uređaji s nazivnim toplinskim opterećenjem do 70 kW i 500 litara kapaciteta spremnika vode – 3. dio: Procjena potrošnje energije (EN 13203-3:2010)  
Solar supported gas-fired domestic appliances producing hot water – Appliances not exceeding 70 kW heat input and 500 litres water storage capacity – Part 3: Assessment of energy consumption (EN 13203-3:2010)
- HRN EN 15181:2008  
Mjerna metoda potrošnje energije plinskih peći (EN 15181:2008)  
Measuring method of the energy consumption of gas fired ovens (EN 15181:2008)
- HRN EN 15420:2012  
Plinski kotlovi za centralno grijanje – Kotlovi tipa C nazivnog toplinskog opterećenja do uključivo 70 kW ali ne većim od 1000 kW (EN 15420:2010)

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

## **HZNTO E15, Čvrsti elektrotehnički izolacijski materijali**

- HRN EN 60684-3-280:2013  
Savijljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 280. list: Toplinski skupljajuće poliolefinske navlake otporne na vučenje (IEC 60684-3-280:2010; EN 60684-3-280:2010)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 280: Heat-shrinkable, polyolefin sleeving, anti-tracking (IEC 60684-3-280:2010; EN 60684-3-280:2010)
- HRN EN 60684-3-283:2013  
Savijljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – Toplinski skupljajuće poliolefinske navlake za izolaciju šipki za sabirnice (IEC 60684-3-283:2010; EN 60684-3-283:2011)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 283: Heat-shrinkable, polyolefin sleeving, for bus-bar insulation (IEC 60684-3-283:2010; EN 60684-3-283:2011)

## **HZNTU T1, Prijevoz, rukovanje materijalima i pakiranje 1**

- HRN EN 15918:2013  
Bicikli – Prikolice za bicikle – Sigurnosni zahtjevi i metode ispitivanja (EN 15918:2011+A1:2013)  
Cycles – Cycle trailers – Safety requirements and test methods (EN 15918:2011+A1:2013)

## **HZNTU U1, Opća elektrotehnika 1**

- HRN EN 60695-4:2008  
Ispitivanje opasnosti od požara – 4. dio: Terminologija ispitivanja požara za elektrotehničke proizvode (IEC 60695-4:2005; EN 60695-4:2006)  
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products (IEC 60695-4:2005; EN 60695-4:2006)
- HRN EN 60695-5-1:2008  
Ispitivanje opasnosti od požara – Dio 5-1: Korozivni štetni učinci otpadnih voda od požara – Opće upute (IEC 60695-5-1:2002; EN 60695-5-1:2003)  
Fire hazard testing – Part 5-1: Corrosion damage effects of fire effluent – General guidance (IEC 60695-5-1:2002; EN 60695-5-1:2003)
- HRN EN 60695-6-1:2008  
Ispitivanje opasnosti od požara – Dio 6-1: Dimno zamračenje – Opće upute (IEC 60695-6-1:2005; EN 60695-6-1:2005)  
Fire hazard testing – Part 6-1: Smoke obscuration – General guidance (IEC 60695-6-1:2005; EN 60695-6-1:2005)
- HRN EN 60695-6-1:2008/A1:2011  
Ispitivanje opasnosti od požara – Dio 6-1: Dimno zamračenje – Opće upute (IEC 60695-6-1:2005/am1:2010; EN 60695-6-1:2005/A1:2010)  
Fire hazard testing – Part 6-1: Smoke obscuration – General guidance (IEC 60695-6-1:2005/am1:2010; EN 60695-6-1:2005/A1:2010)
- HRN EN 60695-6-2:2013  
Ispitivanje opasnosti od požara – Dio 6-2: Dimno zamračenje – Sažetak i značaj metode ispitivanja (IEC 60695-6-2:2011; EN 60695-6-2:2011)  
Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods (IEC 60695-6-2:2011; EN 60695-6-2:2011)

- HRN EN 60695-7-1:2011  
Ispitivanje opasnosti od požara – Dio 7-1: Toksičnost otpadnih voda od požara – Opće upute (IEC 60695-7-1:2010; EN 60695-7-1:2010)  
Fire hazard testing – Part 7-1: Toxicity of fire effluent – General guidance (IEC 60695-7-1:2010; EN 60695-7-1:2010)
- HRN EN 60695-7-2:2013  
Ispitivanje opasnosti od požara – Dio 7-2: Toksičnost otpadnih voda od požara – Sažetak i značaj ispitne metode (IEC 60695-7-2:2011; EN 60695-7-2:2011)  
Fire hazard testing – Part 7-2: Toxicity of fire effluent – Summary and relevance of test methods (IEC 60695-7-2:2011; EN 60695-7-2:2011)
- HRN EN 60695-7-3:2013  
Ispitivanje opasnosti od požara – Dio 7-3: Toksičnost otpadnih voda od požara – Uporabu i tumačenje rezultata ispitivanja (IEC 60695-7-3:2011; EN 60695-7-3:2011)  
Fire hazard testing – Part 7-3: Toxicity of fire effluent – Use and interpretation of test results (IEC 60695-7-3:2011; EN 60695-7-3:2011)
- HRN EN 60695-8-1:2008  
Ispitivanje opasnosti od požara – Dio 8-1: Emitiranje topline – Opće upute (IEC 60695-8-1:2008; EN 60695-8-1:2008)  
Fire hazard testing – Part 8-1: Heat release – General guidance (IEC 60695-8-1:2008; EN 60695-8-1:2008)
- HRN EN 60695-9-1:2008  
Ispitivanje opasnosti od požara – Dio 9-1: Površinsko širenje plamena – Opće upute (IEC 60695-9-1:2005; EN 60695-9-1:2005)  
Fire hazard testing – Part 9-1: Surface spread of flame – General guidance (IEC 60695-9-1:2005; EN 60695-9-1:2005)
- HRN EN 60721-1:2008  
Razredba uvjeta okoliša – 1. dio: Parametri okoliša i njihov intenzitet (IEC 60721-1:1990+am2:1995; EN 60721-1:1995+A2:1995)  
Classification of environmental conditions – Part 1: Environmental parameters and their severities (IEC 60721-1:1990+am2:1995; EN 60721-1:1995+A2:1995)
- HRN EN 60721-3-0:2008  
Razredba uvjeta okoliša – 3. dio: Razredba skupina parametara okoliša i njihovog intenziteta – Uvod (IEC 60721-3-0:1984+am1:1987; EN 60721-3-0:1993)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Introduction (IEC 60721-3-0:1984+am1:1987; EN 60721-3-0:1993)
- HRN EN 60721-3-5:2008  
Razredba uvjeta okoliša – 3. dio: Razredba skupina parametara okoliša i njihovog intenziteta – 5. odjeljak: Uzemljenje instalacija vozila (IEC 60721-3-5:1997; EN 60721-3-5:1997)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 5: Ground vehicle installations (IEC 60721-3-5:1997; EN 60721-3-5:1997)
- HRN EN 60721-3-6:2008  
Razredba uvjeta okoliša – 3. dio: Razredba skupina parametara okoliša i njihovog intenziteta – 6. odjeljak: Brdski okoliš (IEC 60721-3-6:1987+am2:1996; EN 60721-3-6:1993+A2:1997)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 6: Ship environment (IEC 60721-3-6:1987+am2:1996; EN 60721-3-6:1993+A2:1997)
- HRN EN 60721-3-7:2008  
Razredba uvjeta okoliša – 3. dio: Razredba skupina parametara okoliša i njihovog intenziteta – 7. odjeljak: Prijenosna i nestacionarna uporaba (IEC 60721-3-7:1995+am1:1996; EN 60721-3-7:1995+A1:1997)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 7: Portable and non-stationary use (IEC 60721-3-7:1995+am1:1996; EN 60721-3-7:1995+A1:1997)
- HRN EN 60721-3-9:2008  
Razredba uvjeta okoliša – 3. dio: Razredba skupina parametara okoliša i njihovog intenziteta – 9. odjeljak: Mikroklimama unutar proizvoda (IEC 60721-3-9:1993+am1:1994; EN 60721-3-9:1993+A1:1995)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 9: Microclimates inside products (IEC 60721-3-9:1993+am1:1994; EN 60721-3-9:1993+A1:1995)
- HRN EN 60848:2008  
GRAFCET specificirani jezik za sekvencijske funkcije grafikona (IEC 60848:2002; EN 60848:2002)  
GRAFCET specification language for sequential function charts (IEC 60848:2002; EN 60848:2002)
- HRN EN 60889:2008  
Tvrdno vučena aluminijska žica za vodiče za nadzemne vodove (IEC 60889:1987; EN 60889:1997)  
Hard-drawn aluminium wire for overhead line conductors (IEC 60889:1987; EN 60889:1997)
- HRN EN 60909-3:2011  
Struje kratkog spoja u trofaznim izmjeničnim sustavima – 3. dio: Struje dvostrukog zemljospoja i parcijalne struje kroz tlo (IEC 60909-3:2009; EN 60909-3:2010)  
Short-circuit currents in three-phase a.c systems – Part 3: Currents during two separate simultaneous line-to-earth short-circuits and partial short-circuit currents flowing through earth (IEC 60909-3:2009; EN 60909-3:2010)
- HRN EN 60974-4:2008  
Oprema za elektrolučno zavarivanje – 4. dio: Usluga provjere i ispitivanja (IEC 60974-4:2006; EN 60974-4:2007)  
Arc welding equipment – Part 4: In-service inspection and testing (IEC 60974-4:2006; EN 60974-4:2007)
- HRN EN 60974-9:2011  
Oprema za elektrolučno zavarivanje – 9. dio: Instalacija i uporaba (IEC 60974-9:2010; EN 60974-9:2010)  
Arc welding equipment – Part 9: Installation and use (IEC 60974-9:2010; EN 60974-9:2010)
- HRN EN 61000-4-23:2009  
Elektromagnetna kompatibilnost (EMC) – Dio 4-23: Tehnike mjerenja i ispitivanja - Metode ispitivanja za zaštitne uređaje za HEMP i druge zračne smetnje (IEC 61000-4-23:2000; EN 61000-4-23:2000)  
Electromagnetic compatibility (EMC) – Part 4-23: Testing and measurement techniques – Test methods for protective devices for HEMP and other radiated disturbances (IEC 61000-4-23:2000; EN 61000-4-23:2000)
- HRN EN 61082-1:2008  
Priprema dokumentacije za uporabu u elektrotehnici – 1. dio: Pravila (IEC 61082-1:2006; EN 61082-1:2006)  
Preparation of documents used in electrotechnology – Part 1: Rules (IEC 61082-1:2006; EN 61082-1:2006)

- HRN EN 61082-2:2008  
Priprema dokumentacije za uporabu u elektrotehnici – 2. dio: Funkcionalni dijagrami (IEC 61082-2:1993; EN 61082-2:1994)  
Preparation of documents used in electrotechnology – Part 2: Function-oriented diagrams (IEC 61082-2:1993; EN 61082-2:1994)
- HRN EN 61082-3:2008  
Priprema dokumentacije za uporabu u elektrotehnici – 3. dio: Veza dijagrama, tablica i popisa (IEC 61082-3:1993; EN 61082-3:1994)  
Preparation of documents used in electrotechnology – Part 3: Connection diagrams, tables and lists (IEC 61082-3:1993; EN 61082-3:1994)
- HRN EN 61082-4:2008  
Priprema dokumentacije za uporabu u elektrotehnici – 4. dio: Lokacija i instalacija dokumenata (IEC 61082-4:1996; EN 61082-4:1996)  
Preparation of documents used in electrotechnology – Part 4: Location and installation documents (IEC 61082-4:1996; EN 61082-4:1996)
- HRN EN 61175:2008  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Označivanje signala (IEC 61175:2005; EN 61175:2005)  
Industrial systems, installations and equipment and industrial products – Designation of signals (IEC 61175:2005; EN 61175:2005)
- HRN EN 61232:2008  
Aluminijem oklopljene čelične žice za uporabu u elektrotehnici (IEC 61232:1993, MOD; EN 61232:1995)  
Aluminium-clad steel wires for electrical purposes (IEC 61232:1993, MOD; EN 61232:1995)
- HRN EN 61232:2008/A11:2008  
Aluminijem oklopljene čelične žice za uporabu u elektrotehnici (EN 61232:1995/A11:2000)  
Aluminium-clad steel wires for electrical purposes (EN 61232:1995/A11:2000)
- HRN EN 61286:2008  
Informacijska tehnologija – Kodirani grafički znakovi za uporabu u izradi dokumentacije u elektrotehnici i razmjenu informacija (IEC 61286:2001, MOD; EN 61286:2002)  
Information technology – Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange (IEC 61286:2001, MOD; EN 61286:2002)
- HRN EN 61346-1:2008  
Industrijski sustavi, instalacije, oprema i industrijski proizvodi – Strukturiranje načela i referencijske oznake – 1. dio: Osnovna načela (IEC 61346-1:1996; EN 61346-1:1996)  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules (IEC 61346-1:1996; EN 61346-1:1996)
- HRN EN 61346-2:2008  
Industrijski sustavi, instalacije, oprema i industrijski proizvodi – Strukturiranje načela i referencijske oznake – 2. dio: Klasifikacija objekata i kodova za razrede (IEC 61346-2:2000; EN 61346-2:2000)  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes (IEC 61346-2:2000; EN 61346-2:2000)
- HRN EN 61355:2008  
Klasifikacija i označivanje dokumenata za postrojenja, sustave i opremu (IEC 61355:1997; EN 61355:1997)  
Classification and designation of documents for plants, systems and equipment (IEC 61355:1997; EN 61355:1997)
- HRN EN 61355-1:2008  
Klasifikacija i označivanje dokumenata za postrojenja, sustave i opremu – 1. dio: Pravila i klasifikacija ploča (IEC 61355-1:2008; EN 61355-1:2008)  
Classification and designation of documents for plants, systems and equipment – Part 1: Rules and classification tables (IEC 61355-1:2008; EN 61355-1:2008)
- HRN EN 61360-1:2008  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 1. dio: Definicije – Načela i metode (IEC 61360-1:2002+am1:2003; EN 61360-1:2002+A1:2004)  
Standard data element types with associated classification scheme for electric components – Part 1: Definitions – Principles and methods (IEC 61360-1:2002+am1:2003; EN 61360-1:2002+A1:2004)
- HRN EN 61360-2:2008  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 2. dio: EXPRESS rječnik shema (IEC 61360-2:2002+am1:2003; EN 61360-2:2002+A1:2004)  
Standard data element types with associated classification scheme for electric components – Part 2: EXPRESS dictionary schema (IEC 61360-2:2002+am1:2003; EN 61360-2:2002+A1:2004)
- HRN EN 61360-4:2008  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 4. dio: IEC referentna zbirka standardnih tipnih podataka i razreda komponeneta (IEC 61360-4:2005; EN 61360-4:2005)  
Standard data element types with associated classification scheme for electric components – Part 4: IEC reference collection of standard data element types and component classes (IEC 61360-4:2005; EN 61360-4:2005)
- HRN EN 61360-5:2008  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 5. dio: Prošireni EXPRESS rječnik shema (IEC 61360-5:2004; EN 61360-5:2004)  
Standard data element types with associated classification scheme for electric components – Part 5: Extensions to the EXPRESS dictionary schema (IEC 61360-5:2004; EN 61360-5:2004)
- HRN EN 61395:2008  
Nadzemni električni vodiči – Postupci ispitivanja puzanja usukanih vodiča (IEC 61395:1998; EN 61395:1998)  
Overhead electrical conductors – Creep test procedures for stranded conductors (IEC 61395:1998; EN 61395:1998)
- HRN EN 61666:2011  
Industrijski sustavi, instalacije, oprema i industrijski proizvodi – Identificiranje priključaka unutar sustava (IEC 61666:2010; EN 61666:2010)  
Industrial systems, installations and equipment and industrial products – Identification of terminals within a system (IEC 61666:2010; EN 61666:2010)
- HRN EN 61788-1:2008  
Supravodljivost – 1. dio: Kritično mjerenje struje – Kritična istosmjerna struja (DC) Nb-Ti kompozitnih supravodiča (IEC 61788-1:2006; EN 61788-1:2007)  
Superconductivity – Part 1: Critical current measurement – DC critical current of Nb-Ti composite superconductors (IEC 61788-1:2006; EN 61788-1:2007)

- HRN EN 61788-2:2008  
Supravodljivost – 2. dio: Kritično mjerenje struje – Kritična istosmjerna struja (DC) Nb<sub>3</sub>Sn kompozitnih supravodiča (IEC 61788-2:2006; EN 61788-2:2007)  
Superconductivity – Part 2: Critical current measurement – DC critical current of Nb<sub>3</sub>Sn composite superconductors (IEC 61788-2:2006; EN 61788-2:2007)
- HRN EN 61788-3:2008  
Supravodljivost – 3. dio: Kritično mjerenje struje – Kritična istosmjerna (DC) struja Ag i/ili Ag legura obloženih Bi-2212 i Bi-2223 oksidom supravodiča (IEC 61788-3:2006; EN 61788-3:2006)  
Superconductivity – Part 3: Critical current measurement – DC critical current of Ag- and/or Ag alloy-sheathed Bi-2212 and Bi-2223 oxide superconductors (IEC 61788-3:2006; EN 61788-3:2006)
- HRN EN 61788-4:2008  
Supravodljivost – 4. dio: Preostalo mjerenje omjera otpora – Preostali omjer otpora Nb-Ti kompozitnih supravodiča (IEC 61788-4:2007; EN 61788-4:2007)  
Superconductivity – Part 4: Residual resistance ratio measurement – Residual resistance ratio of Nb-Ti composite superconductors (IEC 61788-4:2007; EN 61788-4:2007)
- HRN EN 61788-5:2008  
Supravodljivost – 5. dio: Matrica za mjerenje omjera volumena supravodiča - Bakar za supravodič omjer volumena Cu/Nb-Ti kompozitnih supravodča (IEC 61788-5:2000; EN 61788-5:2001)  
Superconductivity – Part 5: Matrix to superconductor volume ratio measurement – Copper to superconductor volume ratio of Cu/Nb-Ti composite superconductors (IEC 61788-5:2000; EN 61788-5:2001)
- HRN EN 61788-6:2008  
Supravodljivost – 6. dio: Mjerenje mehaničkih svojstava – Ispitivanje na vlak pri sobnoj temperaturi Cu/Nb-Ti kompozitnih supravodiča (IEC 61788-6:2008; EN 61788-6:2008)  
Superconductivity – Part 6: Mechanical properties measurement – Room temperature tensile test of Cu/Nb-Ti composite superconductors (IEC 61788-6:2008; EN 61788-6:2008)
- HRN EN 61788-7:2008  
Supravodljivost – 7. dio: Elektroničke karakteristike mjerenja – Površinska otpornost supravodiča na mikrovalnim frekvencijama (IEC 61788-7:2006; EN 61788-7:2006)  
Superconductivity – Part 7: Electronic characteristic measurements – Surface resistance of superconductors at microwave frequencies (IEC 61788-7:2006; EN 61788-7:2006)
- HRN EN 61788-8:2008  
Supravodljivost – 8. dio: AC mjerni gubici – Ukupni AC mjerni gubitak Cu/Nb-Ti kompozitnih supravodljivih žica izloženih poprečnom promjenjivom magnetskom polju metodom podizanja svitka (IEC 61788-8:2003; EN 61788-8:2003)  
Superconductivity – Part 8: AC loss measurements – Total AC loss measurement of Cu/Nb-Ti composite superconducting wires exposed to a transverse alternating magnetic field by a pickup coil method (IEC 61788-8:2003; EN 61788-8:2003)
- HRN EN 61788-8:2011  
Supravodljivost – 8. dio: AC mjerni gubici – Ukupni AC mjerni gubitak okruglih supravodljivih žica izloženih poprečnom promjenjivom magnetskom polju na temperaturi tekućeg helija metodom podizanja svitka (IEC 61788-8:2010; EN 61788-8:2010)
- Superconductivity – Part 8: AC loss measurements – Total AC loss measurement of round superconducting wires exposed to a transverse alternating magnetic field at liquid helium temperature by a pickup coil method (IEC 61788-8:2010; EN 61788-8:2010)
- HRN EN 61788-9:2008  
Supravodljivost – 9. dio: Mjerenja veličina visoko temperaturnih supravodiča – Uhvaćeni protok gustoće velikih zrna oksida supravodiča (IEC 61788-9:2005; EN 61788-9:2005)  
Superconductivity – Part 9: Measurements for bulk high temperature superconductors – Trapped flux density of large grain oxide superconductors (IEC 61788-9:2005; EN 61788-9:2005)
- HRN EN 61788-10:2008  
Supravodljivost – 10. dio: Mjerenje kritične temperature – Kritična temperatura kompozitnih supravodiča po metodi otpornosti (IEC 61788-10:2006; EN 61788-10:2006)  
Superconductivity – Part 10: Critical temperature measurement – Critical temperature of composite superconductors by a resistance method (IEC 61788-10:2006; EN 61788-10:2006)
- HRN EN 61788-11:2008  
Supravodljivost – 11. dio: Mjerenje omjera diferencijalnog otpora – Omjer diferencijalnog otpora Nb<sub>3</sub>Sn kompozitnih supravodiča (IEC 61788-11:2003; EN 61788-11:2003)  
Superconductivity – Part 11: Residual resistance ratio measurement – Residual resistance ratio of Nb<sub>3</sub>Sn composite superconductors (IEC 61788-11:2003; EN 61788-11:2003)
- HRN EN 61788-12:2008  
Supravodljivost – 12. dio: Matrica za mjerenje omjera volumena supravodiča – Omjer volumena bakrenih i nebakrenih Nb<sub>3</sub>Sn kompozitnih supravodljivih žica (IEC 61788-12:2002; EN 61788-12:2002)  
Superconductivity – Part 12: Matrix to superconductor volume ratio measurement – Copper to non-copper volume ratio of Nb<sub>3</sub>Sn composite superconducting wires (IEC 61788-12:2002; EN 61788-12:2002)
- HRN EN 61788-13:2008  
Supravodljivost – 13. dio: AC mjerni gubici – Metode mjerenja gubitka magnetske histereze u Cu/Nb-Ti viševlaknastim kompozitima (IEC 61788-13:2003; EN 61788-13:2003)  
Superconductivity – Part 13: AC loss measurements – Magnetometer methods for hysteresis loss in Cu/Nb-Ti multifilamentary composites (IEC 61788-13:2003; EN 61788-13:2003)
- HRN EN 61788-13:2013  
Supravodljivost – 13. dio: AC mjerni gubici – Metode mjerenja gubitka magnetske histereze u supravodljivim viševlaknastim kompozitima (IEC 61788-13:2012; EN 61788-13:2012)  
Superconductivity – Part 13: AC loss measurements – Magnetometer methods for hysteresis loss in superconducting multifilamentary composites (IEC 61788-13:2012; EN 61788-13:2012)
- HRN EN 61788-14:2011  
Supravodljivost – 14. dio: Supravodljivi uređaji snage – Opći zahtjevi za ispitivanja strujnih karakteristika namijenjenih za napajanje supravodljivih uređaja (IEC 61788-14:2010; EN 61788-14:2010)  
Superconductivity – Part 14: Superconducting power devices – General requirements for characteristic tests of current leads designed for powering superconducting devices (IEC 61788-14:2010; EN 61788-14:2010)
- HRN EN 61788-15:2013  
Supravodljivost – 15. dio: Mjerenja elektroničkih karakteristika – Unutarnja površinska impedancija supravodičkih filmova na mikrovalnim frekvencijama (IEC 61788-15:2011; EN 61788-15:2011)



- Superconductivity – Part 15: Electronic characteristic measurements – Intrinsic surface impedance of superconductor films at microwave frequencies (IEC 61788-15:2011; EN 61788-15:2011)
- HRN EN 61788-16:2013  
Supravodljivost – 16. dio: Mjerenja elektroničkih karakteristika – Površinski otpor supravodiča na mikrovalnim frekvencijama ovisan o napajanju (IEC 61788-16:2013; EN 61788-16:2013)  
Superconductivity – Part 16: Electronic characteristic measurements – Power-dependent surface resistance of superconductors at microwave frequencies (IEC 61788-16:2013; EN 61788-16:2013)
- HRN EN 61788-17:2013  
Supravodljivost – 17. dio: Mjerenja elektroničkih karakteristika – Lokalna kritična gustoća struje i njezina raspodjela u velike površine supravodičkih filmova (IEC 61788-17:2013; EN 61788-17:2013)  
Superconductivity – Part 17: Electronic characteristic measurements – Local critical current density and its distribution in large-area superconducting films (IEC 61788-17:2013; EN 61788-17:2013)
- HRN EN 62023:2008  
Strukturiranje tehničkih informacija i dokumentacije (IEC 62023:2000; EN 62023:2000)  
Structuring of technical information and documentation (IEC 62023:2000; EN 62023:2000)
- HRN EN 62027:2008  
Pripremanje dijelova popisa (IEC 62027:2000; EN 62027:2000)  
Preparation of parts lists (IEC 62027:2000; EN 62027:2000)
- HRN EN 62079:2008  
Priprema instrukcija – Strukturiranje, sadržaj i prezentacija (IEC 62079:2001; EN 62079:2001)  
Preparation of instructions – Structuring, content and presentation (IEC 62079:2001; EN 62079:2001)
- HRS CLC/TS 62081:2010  
Elektrolučno zavarivanje – Instaliranje i upotreba (IEC 62081:1999; CLC/TS 62081:2002)  
Arc welding equipment – Installation and use (IEC 62081:1999; CLC/TS 62081:2002)
- HRN EN 62219:2008  
Nadzemni električni vodovi – Formirana žica, koncentrično položena, usukani vodiči (IEC 62219:2002; EN 62219:2002)  
Overhead electrical conductors – Formed wire, concentric lay, stranded conductors (IEC 62219:2002; EN 62219:2002)
- HRN EN 62321:2010  
Elektrotehnički proizvodi – Određivanje razina za šest propisanih supstanci (olovo, živa, kadmij, šesterovalentni krom, polibrominiranih bifenila, polibrominiranih difenil etera) (IEC 62321:2008; EN 62321:2009)  
Electrotechnical products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) (IEC 62321:2008; EN 62321:2009)
- HRN EN 62420:2008  
Koncentrično položeni usukani nadzemni električni vodiči koji sadrže jednu ili više praznina (IEC 62420:2008; EN 62420:2008)  
Concentric lay stranded overhead electrical conductors containing one or more gap(s) (IEC 62420:2008; EN 62420:2008)
- HRN EN 62428:2008  
Elektroenergetika – Modalne komponente u trofaznim izmjeničnim sustavima – Veličine i transformacije (IEC 62428:2008; EN 62428:2008)
- Electric power engineering – Modal components in three-phase a.c. systems – Quantities and transformations (IEC 62428:2008; EN 62428:2008)
- HRN EN 62430:2010  
Dizajn električnih i elektroničkih proizvoda s obzirom na brigu o okolišu (IEC 62430:2009; EN 62430:2009)  
Environmentally conscious design for electrical and electronic products (IEC 62430:2009; EN 62430:2009)
- HRN EN 62491:2008  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Označavanje kabela i jezgri (IEC 62491:2008; EN 62491:2008)  
Industrial systems, installations and equipment and industrial products – Labelling of cables and cores (IEC 62491:2008; EN 62491:2008)
- HRN EN 62507-1:2011  
Identifikacijski sustavi koji omogućuju jednoznačnu razmjenu informacija – Zahtjevi – 1. dio: Načela i metode (IEC 62507-1:2010; EN 62507-1:2011)  
Identification systems enabling unambiguous information interchange – Requirements – Part 1: Principles and methods (IEC 62507-1:2010; EN 62507-1:2011)
- HRN EN 80000-6:2008  
Veličine i jedinice – 6. dio: Elektromagnetizam (IEC 80000-6:2008; EN 80000-6:2008)  
Quantities and units – Part 6: Electromagnetism (IEC 80000-6:2008; EN 80000-6:2008)
- HRN EN 80000-13:2008  
Veličine i jedinice – 13. dio: Informacijska znanost i tehnologija (IEC 80000-13:2008; EN 80000-13:2008)  
Quantities and units – Part 13: Information science and technology (IEC 80000-13:2008; EN 80000-13:2008)
- HRN EN 80000-14:2011  
Veličine i jedinice – 14. dio: Telebiometrija za fiziologiju čovjeka (IEC 80000-14:2008; EN 80000-14:2009)  
Quantities and units – Part 14: Telebiometrics related to human physiology (IEC 80000-14:2008; EN 80000-14:2009)
- HRN EN 80416-1:2009  
Osnovna načela za grafičke simbole za uporabu na opremi – 1. dio: Kreiranje grafičkih simbola za registraciju (IEC 80416-1:2008; EN 80416-1:2009)  
Basic principles for graphical symbols for use on equipment – Part 1: Creation of graphical symbols for registration (IEC 80416-1:2008; EN 80416-1:2009)
- HRN EN 80416-2:2008  
Osnovna načela za grafičke simbole za uporabu na opremi – 2. dio: Oblik i uporaba strelica (ISO 80416-2:2001; EN 80416-2:2001)  
Basic principles for graphical symbols for use on equipment – Part 2: Form and use of arrows (ISO 80416-2:2001; EN 80416-2:2001)
- HRN EN 81346-1:2010  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Strukturiranje načela i referencijske oznake – 1. dio: Osnovna pravila (IEC 81346-1:2009; EN 81346-1:2009)  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules (IEC 81346-1:2009; EN 81346-1:2009)
- HRN EN 81346-2:2010  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Strukturiranje načela i referencijske oznake – 2. dio: Klasifikacija objekata i kodova za razrede (IEC 81346-2:2009; EN 81346-2:2009)  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes (IEC 81346-2:2009; EN 81346-2:2009)

- HRN EN 82045-1:2008  
Upravljanje dokumentima – 1. dio: Načela i metode  
(IEC 82045-1:2001; EN 82045-1:2001)  
Document management – Part 1: Principles and  
methods (IEC 82045-1:2001; EN 82045-1:2001)
- HRN EN 82045-2:2008  
Upravljanje dokumentima – 2. dio: Elementi  
metapodataka i informacije referencijskog modela  
(IEC 82045-2:2004; EN 82045-2:2005)  
Document management – Part 2: Metadata elements  
and information reference model (IEC 82045-2:2004;  
EN 82045-2:2005)
- HRN EN 82079-1:2013  
Priprema instrukcija za uporabu – Strukturiranje,  
sadržaj i prezentacija – 1. dio: Opća načela i detaljni  
zahtjevi (IEC 82079-1:2012; EN 82079-1:2012)  
Preparation of instructions for use – Structuring,  
content and presentation – Part 1: General principles  
and detailed requirements (IEC 82079-1:2012;  
EN 82079-1:2012)

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

- HRN EN 50290-1-1:2008  
Komunikacijski kabeli – Dio 1-1: Općenito  
(EN 50290-1-1:2001)  
Communication cables – Part 1-1: General  
(EN 50290-1-1:2001)
- HRN EN 50290-1-2:2008  
Komunikacijski kabeli – Dio 1-2: Definicije  
(EN 50290-1-2:2004)  
Communication cables – Part 1-2: Definitions  
(EN 50290-1-2:2004)
- HRN EN 50290-4-2:2008  
Komunikacijski kabeli – Dio 4-2: Opća razmatranja za  
uporabu kabela – Upute za uporabu  
(EN 50290-4-2:2008)  
Communication cables – Part 4-2: General  
considerations for the use of cables – Guide to use  
(EN 50290-4-2:2008)

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

### **01.040.13 Okoliš. Zaštita zdravlja. Sigurnost (Rječnici)**

#### **Europska normizacija CENELEC**

EN 62542:2013  
Environmental standardization for electrical and electronic products and systems – Standardization of environmental aspects – Glossary of terms (IEC 62542:2013)

#### **Međunarodna normizacija ISO**

ISO 12749-2:2013  
Nuclear energy, nuclear technologies, and radiological protection – Vocabulary – Part 2: Radiological protection

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

#### **Međunarodna normizacija IEC**

IEC 60050-131:2002/am2:2013  
International Electrotechnical Vocabulary – Part 131: Circuit theory

### **01.040.25 Proizvodna tehnika (Rječnici)**

#### **Međunarodna normizacija ISO**

ISO 7583:2013  
Anodizing of aluminium and its alloys – Terms and definitions

### **01.040.27 Prijenos energije i topline (Rječnici)**

#### **Europska normizacija CEN**

EN 14511-1:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms, definitions and classification

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

#### **Međunarodna normizacija IEC**

IEC 60050-131:2002/am2:2013  
International Electrotechnical Vocabulary – Part 131: Circuit theory  
IEC 60050-151:2001/am1:2013  
International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices

### **01.040.79 Drvna tehnologija (Rječnici)**

#### **Međunarodna normizacija ISO**

ISO 24294:2013  
Timber – Round and sawn timber – Vocabulary

### **01.040.91 Konstrukcijski materijali i gradnja (Rječnici)**

#### **Europska normizacija CEN**

EN 14511-1:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms, definitions and classification

### **01.100.20 Crteži u strojarstvu**

#### **Međunarodna normizacija ISO**

ISO 10110-12:2007/Amd 1:2013  
Optics and photonics – Preparation of drawings for optical elements and systems – Part 12: Aspheric surfaces; Amendment 1

### **01.110 Tehnička dokumentacija o proizvodu**

#### **Europska normizacija CEN**

EN 1041+A1:2013  
Information supplied by the manufacturer of medical devices

### **01.120 Normizacija. Opća pravila**

#### **Europska normizacija CEN**

CEN-CENELEC Guide 27:2013  
CEN and CENELEC involvement in Technical Assistance (TA) projects

### **01.140.20 Informacijske znanosti**

#### **Međunarodna normizacija ISO**

ISO 2789:2013  
Information and documentation – International library statistics

ISO 27729:2012/Cor 1:2013  
Information and documentation – International standard name identifier (ISNI); Technical Corrigendum 1

### **03.060 Financije. Bankarstvo. Monetarni sustavi. Osiguranje**

#### **Međunarodna normizacija ISO**

ISO 6166:2013  
Securities and related financial instruments – International securities identification numbering system (ISIN)

### 03.080.30 Usluge za potrošače

#### Međunarodna normizacija ISO

ISO/TR 21102:2013  
Adventure tourism – Leaders – Personnel competence

### 03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito

#### Međunarodna normizacija ISO

ISO 22398:2013  
Societal security – Guidelines for exercises

### 03.100.30 Upravljanje ljudskim resursima

#### Europska normizacija CEN

EN 1591-4:2013  
Flanges and their joints – Part 4: Qualification of personnel competency in the assembly of the bolted connections of critical service pressurized systems

EN ISO 14732:2013  
Welding personnel – Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials (ISO 14732:2013)

#### Međunarodna normizacija ISO

ISO 9606-1:2012/Cor 2:2013  
Qualification testing of welders – Fusion welding – Part 1: Steels; Technical Corrigendum 2

ISO 14732:2013  
Welding personnel – Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials

ISO 18878:2013  
Mobile elevating work platforms – Operator (driver) training

### 03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti

#### Europska normizacija CEN

EN ISO/IEC 17067:2013  
Conformity assessment – Fundamentals of product certification and guidelines for product certification schemes (ISO/IEC 17067:2013)

#### Međunarodna normizacija ISO/IEC

ISO/IEC 17067:2013  
Conformity assessment – Fundamentals of product certification and guidelines for product certification schemes

### 03.120.30 Primjena statističkih metoda

### Međunarodna normizacija ISO

ISO 3951-1:2013  
Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL

ISO 3951-2:2013  
Sampling procedures for inspection by variables – Part 2: General specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection of independent quality characteristics

ISO 22514-2:2013  
Statistical methods in process management – Capability and performance – Part 2: Process capability and performance of time-dependent process models

### 03.200 Slobodno vrijeme. Turizam

#### Međunarodna normizacija ISO

ISO/TR 21102:2013  
Adventure tourism – Leaders – Personnel competence

### 03.220.30 Željeznički prijevoz

#### Međunarodna normizacija IEC

IEC 62625-1:2013  
Electronic railway equipment – On board driving data recording system – Part 1: System specification

### 07.030 Fizika. Kemija

#### Međunarodna normizacija IEC

IEC/TR 62632:2013  
Nanoscale electrical contacts and interconnects

IEC/TR 62834:2013  
IEC nanoelectronics standardization roadmap

### 07.100.30 Mikrobiologija hrane

#### Europska normizacija CEN

EN ISO 4833-1:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique (ISO 4833-1:2013)

EN ISO 4833-2:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30 degrees C by the surface plating technique (ISO 4833-2:2013)

EN ISO 7218:2007/A1:2013  
Microbiology of food and animal feeding stuffs – General requirements and guidance for microbiological examinations – Amendment 1 (ISO 7218:2007/Amd 1:2013)

#### Međunarodna normizacija ISO

- ISO 4833-1:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique
- ISO 4833-2:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30 degrees C by the surface plating technique
- ISO 7218:2007/Amd 1:2013  
Microbiology of food and animal feeding stuffs – General requirements and guidance for microbiological examinations; Amendment 1

### **11.040.01 Medicinska oprema općenito**

#### **Europska normizacija CEN**

- EN 1041+A1:2013  
Information supplied by the manufacturer of medical devices

### **11.040.50 Radiografska oprema**

#### **Međunarodna normizacija IEC**

- IEC 61675-1:2013  
Radionuclide imaging devices – Characteristics and test conditions – Part 1: Positron emission tomographs

### **11.040.55 Dijagnostička oprema**

#### **Međunarodna normizacija IEC**

- IEC/TR 62799:2013  
Models for evaluation of thermal hazard in medical diagnostic ultrasound fields

### **11.040.70 Oftalmološka oprema**

#### **Europska normizacija CEN**

- EN ISO 8980-3:2013  
Ophthalmic optics – Uncut finished spectacle lenses – Part 3: Transmittance specifications and test methods (ISO 8980-3:2013)
- EN ISO 15798:2013  
Ophthalmic implants – Ophthalmic viscosurgical devices (ISO 15798:2013)

#### **Međunarodna normizacija ISO**

- ISO 14889:2013  
Ophthalmic optics – Spectacle lenses – Fundamental requirements for uncut finished lenses
- ISO 15798:2013  
Ophthalmic implants – Ophthalmic viscosurgical devices

### **11.060.10 Stomatološki materijali**

#### **Europska normizacija CEN**

- EN ISO 21563:2013  
Dentistry – Hydrocolloid impression materials (ISO 21563:2013)

#### **Međunarodna normizacija ISO**

- ISO 21563:2013  
Dentistry – Hydrocolloid impression materials

### **11.080.20 Dezinficijensi i antiseptici**

#### **Europska normizacija CEN**

- EN 13624:2013  
Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area – Test method and requirements (phase 2, step 1)

### **11.100.20 Biološko vrednovanje medicinskih proizvoda**

#### **Europska normizacija CEN**

- EN ISO 10993-10:2013  
Biological evaluation of medical devices – Part 10: Tests for irritation and skin sensitization (ISO 10993-10:2010)

### **11.120.01 Ljekarništvo općenito**

#### **Europska normizacija CEN**

- EN 1041+A1:2013  
Information supplied by the manufacturer of medical devices

### **11.180.10 Pomagala i prilagodbe za kretanje**

#### **Međunarodna normizacija ISO**

- ISO 7176-25:2013  
Wheelchairs – Part 25: Batteries and chargers for powered wheelchairs
- ISO 10542-1:2012/Cor 1:2013  
Technical systems and aids for disabled or handicapped persons – Wheelchair tiedown and occupant-restraint systems – Part 1: Requirements and test methods for all systems; Technical Corrigendum 1

### **13.020.10 Upravljanje okolišem**

#### **Europska normizacija CEN**

- EN ISO 14031:2013  
Environmental management – Environmental performance evaluation – Guidelines (ISO 14031:2013)

#### **Međunarodna normizacija ISO**

- ISO 14031:2013

### **13.020.99 Ostale norme koje se odnose na zaštitu okoliša**

#### **Europska normizacija CENELEC**

EN 62542:2013  
Environmental standardization for electrical and electronic products and systems – Standardization of environmental aspects – Glossary of terms (IEC 62542:2013)

### **13.030.10 Kruti otpad**

#### **Europska normizacija CEN**

EN 16377:2013  
Characterization of waste – Determination of brominated flame retardants (BFR) in solid waste

### **13.030.20 Tekući otpad. Mulj**

#### **Europska normizacija CEN**

CEN/TR 16456:2013  
Characterization of sludges – Good practice of sludge dewatering

### **13.040.30 Atmosfera u radnome prostoru**

#### **Međunarodna normizacija ISO**

ISO 17091:2013  
Workplace air – Determination of lithium hydroxide, sodium hydroxide, potassium hydroxide and calcium dihydroxide – Method by measurement of corresponding cations by suppressed ion chromatography

### **13.040.50 Emisije plinova iz prijevoznih sredstava**

#### **Međunarodna normizacija ISO**

ISO 15031-7:2013  
Road vehicles – Communication between vehicle and external equipment for emissions-related diagnostics – Part 7: Data link security

### **13.060.20 Voda za piće**

#### **Europska normizacija CEN**

EN 15975-2:2013  
Security of drinking water supply – Guidelines for risk and crisis management – Part 2: Risk management

### **13.060.50 Ispitivanje voda na kemijske tvari**

#### **Europska normizacija CEN**

EN ISO 27108:2013  
Water quality – Determination of selected plant treatment agents and biocide products – Method using solid-phase microextraction (SPME) followed by gas chromatography-mass spectrometry (GC-MS) (ISO 27108:2010)

### **13.060.60 Ispitivanje fizikalnih svojstava vode**

#### **Međunarodna normizacija ISO**

ISO 13164-1:2013  
Water quality – Radon-222 – Part 1: General principles  
ISO 13164-2:2013  
Water quality – Radon-222 – Part 2: Test method using gamma-ray spectrometry  
ISO 13164-3:2013  
Water quality – Radon-222 – Part 3: Test method using emanometry

### **13.080.01 Kvaliteta tla i pedologija općenito**

#### **Europska normizacija CEN**

EN ISO 28258:2013  
Soil quality – Digital exchange of soil-related data (ISO 28258:2013)

#### **Međunarodna normizacija ISO**

ISO 28258:2013  
Soil quality – Digital exchange of soil-related data

### **13.080.05 Ispitivanje tla općenito, uključujući uzorkovanje**

#### **Europska normizacija CEN**

EN ISO 14688-1:2002/A1:2013  
Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description – Amendment 1 (ISO 14688-1:2002/Amd 1:2013)  
EN ISO 14688-2:2004/A1:2013  
Geotechnical investigation and testing – Identification and classification of soil – Part 2: Principles for a classification – Amendment 1 (ISO 14688-2:2004/Amd 1:2013)

#### **Međunarodna normizacija ISO**

ISO 14688-1:2002/Amd 1:2013  
Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description; Amendment 1  
ISO 14688-2:2004/Amd 1:2013  
Geotechnical investigation and testing – Identification and classification of soil – Part 2: Principles for a classification; Amendment 1

## 13.080.10 Kemijske značajke tla

### Međunarodna normizacija ISO

- ISO 11916-1:2013  
Soil quality – Determination of selected explosives and related compounds – Part 1: Method using high-performance liquid chromatography (HPLC) with ultraviolet detection
- ISO 11916-2:2013  
Soil quality – Determination of selected explosives and related compounds – Part 2: Method using gas chromatography (GC) with electron capture detection (ECD) or mass spectrometric detection (MS)

## 13.080.30 Biološka svojstva tla

### Međunarodna normizacija ISO

- ISO 29200:2013  
Soil quality – Assessment of genotoxic effects on higher plants – *Vicia faba* micronucleus test

## 13.100 Radna sigurnost. Industrijska higijena

### Europska normizacija CEN

- CEN ISO/TR 12296:2013  
Ergonomics – Manual handling of people in the healthcare sector (ISO/TR 12296:2012)

## 13.110 Sigurnost strojeva

### Europska normizacija CEN

- EN ISO 14119:2013  
Safety of machinery – Interlocking devices associated with guards – Principles for design and selection (ISO 14119:2013)

## 13.160 Utjecaj vibracija i udara na ljude

### Europska normizacija CEN

- CEN/TR 15350:2013  
Mechanical vibration – Guideline for the assessment of exposure to hand-transmitted vibration using available information including that provided by manufacturers of machinery

## 13.180 Ergonomija

### Europska normizacija CEN

- CEN ISO/TR 9241-331:2013  
Ergonomics of human-system interaction – Part 331: Optical characteristics of autostereoscopic displays (ISO/TR 9241-331:2012)
- CEN ISO/TR 12296:2013  
Ergonomics – Manual handling of people in the healthcare sector (ISO/TR 12296:2012)

## 13.220.01 Zaštita od požara općenito

### Međunarodna normizacija ISO

- ISO 29904:2013  
Fire chemistry – Generation and measurement of aerosols

## 13.220.20 Zaštita od požara

### Europska normizacija CEN

- EN 16081:2011+A1:2013  
Hyperbaric chambers – Specific requirements for fire extinguishing systems – Performance, installation and testing

### Međunarodna normizacija ISO

- ISO 7240-14:2013  
Fire detection and alarm systems – Part 14: Design, installation, commissioning and service of fire detection and fire alarm systems in and around buildings
- ISO 14186:2013  
Air cargo – Fire containment covers – Design, performance and testing requirements

## 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

### Europska normizacija CENELEC

- EN 61034-2:2005/A1:2013  
Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements (IEC 61034-2:2005/A1:2013)

### Međunarodna normizacija ISO

- ISO 30021:2013  
Plastics – Burning behaviour – Intermediate-scale fire-resistance testing of fibre-reinforced polymer composites

## 13.280 Zaštita od zračenja

### Međunarodna normizacija ISO

- ISO 12749-2:2013  
Nuclear energy, nuclear technologies, and radiological protection – Vocabulary – Part 2: Radiological protection

## 13.300 Zaštita od opasnih tvari

### Europska normizacija CEN

- EN ISO 13274:2013  
Packaging – Transport packaging for dangerous goods – Plastics compatibility testing for packaging and IBCs

(ISO 13274:2013)

EN ISO 16495:2013  
Packaging – Transport packaging for dangerous goods  
– Test methods (ISO 16495:2013)

### **Međunarodna normizacija ISO**

ISO 13274:2013  
Packaging – Transport packaging for dangerous goods  
– Plastics compatibility testing for packaging and IBCs

ISO 16495:2013  
Packaging – Transport packaging for dangerous goods  
– Test methods

## **13.320 Alarmni sustavi i sustavi uzbunjivanja**

### **Europska normizacija CENELEC**

EN 50136-2:2013  
Alarm systems – Alarm transmission systems and  
equipment – Part 2: Requirements for supervised  
premises transceivers (SPT)

EN 50136-3:2013  
Alarm systems – Alarm transmission systems and  
equipment – Part 3: Requirements for Receiving  
Centre Transceivers (RCT)

EN 50292:2013  
Electrical apparatus for the detection of carbon  
monoxide in domestic premises – Guide on the  
selection, installation, use and maintenance

HD 60364-5-56:2010/A11:2013  
Low-voltage electrical installations – Part 5-56:  
Selection and erection of electrical equipment – Safety  
services

## **13.340.20 Zaštitna oprema za glavu**

### **Europska normizacija CEN**

EN ISO 12311:2013  
Personal protective equipment – Test methods for  
sunglasses and related eyewear (ISO 12311:2013)

EN ISO 12312-1:2013  
Eye and face protection – Sunglasses and related  
eyewear – Part 1: Sunglasses for general use  
(ISO 12312-1:2013)

### **Međunarodna normizacija ISO**

ISO 12311:2013  
Personal protective equipment – Test methods for  
sunglasses and related eyewear

ISO 12312-1:2013  
Eye and face protection – Sunglasses and related  
eyewear – Part 1: Sunglasses for general use

ISO 12609-1:2013  
Eyewear for protection against intense light sources  
used on humans and animals for cosmetic and medical  
applications – Part 1: Specification for products

ISO 12609-2:2013  
Eyewear for protection against intense light sources  
used on humans and animals for cosmetic and medical  
applications – Part 2: Guidance for use

## **17.040.30 Mjerni instrumenti**

### **Europska normizacija CEN**

EN ISO 286-1:2010/AC:2013  
Geometrical product specifications (GPS) – ISO code  
system for tolerances on linear sizes – Part 1: Basis of  
tolerances, deviations and fits – Technical Corrigendum  
1 (ISO 286-1:2010/Cor 1:2013)

EN ISO 286-2:2010/AC:2013  
Geometrical product specifications (GPS) – ISO code  
system for tolerances on linear sizes – Part 2: Tables  
of standard tolerance classes and limit deviations for  
holes and shafts – Technical Corrigendum 1  
(ISO 286-2:2010/Cor 1:2013)

EN ISO 14253-1:2013  
Geometrical product specifications (GPS) – Inspection  
by measurement of workpieces and measuring  
equipment – Part 1: Decision rules for proving  
conformity or nonconformity with specification  
(ISO 14253-1:2013)

EN ISO 25178-603:2013  
Geometrical product specifications (GPS) – Surface  
texture: Areal – Part 603: Nominal characteristics of  
non-contact (phase-shifting interferometric microscopy)  
instruments (ISO 25178-603:2013)

EN ISO 25178-604:2013  
Geometrical product specifications (GPS) – Surface  
texture: Areal – Part 604: Nominal characteristics  
of non-contact (coherence scanning interferometry)  
instruments (ISO 25178-604:2013)

### **Međunarodna normizacija ISO**

ISO 286-1:2010/Cor 1:2013  
Geometrical product specifications (GPS) – ISO  
code system for tolerances on linear sizes – Part 1:  
Basis of tolerances, deviations and fits; Technical  
Corrigendum 1

ISO 286-2:2010/Cor 1:2013  
Geometrical product specifications (GPS) – ISO code  
system for tolerances on linear sizes – Part 2: Tables  
of standard tolerance classes and limit deviations for  
holes and shafts; Technical Corrigendum 1

ISO 14253-1:2013  
Geometrical product specifications (GPS) – Inspection  
by measurement of workpieces and measuring  
equipment – Part 1: Decision rules for proving  
conformity or nonconformity with specification

ISO 25178-604:2013  
Geometrical product specifications (GPS) – Surface  
texture: Areal – Part 604: Nominal characteristics  
of non-contact (coherence scanning interferometry)  
instruments

## **17.140.30 Buka koju proizvode prijevozna sredstva**

### **Europska normizacija CEN**

EN ISO 3095:2013  
Acoustics – Railway applications – Measurement of  
noise emitted by railbound vehicles (ISO 3095:2013)



**Međunarodna normizacija  
ISO**

ISO 3095:2013  
Acoustics – Railway applications – Measurement of noise emitted by railbound vehicles

**17.140.50 Elektroakustika**

**Međunarodna normizacija  
IEC**

IEC 61672-1:2013  
Electroacoustics – Sound level meters – Part 1: Specifications  
IEC 61672-2:2013  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests  
IEC 61672-3:2013  
Electroacoustics – Sound level meters – Part 3: Periodic tests

**17.160 Vibracije, udari i mjerenja vibracija**

**Međunarodna normizacija  
ISO**

ISO 20958:2013  
Condition monitoring and diagnostics of machine systems – Electrical signature analysis of three-phase induction motors

**17.200.20 Mjerni instrumenti za mjerenje temperature**

**Međunarodna normizacija  
IEC**

IEC 60584-1:2013  
Thermocouples – Part 1: Ed. 3.0: EMF specifications and tolerances

**17.220.01 Elektricitet. Magnetizam. Opći aspekti**

**Međunarodna normizacija  
IEC**

IEC 60050-131:2002/am2:2013  
International Electrotechnical Vocabulary – Part 131: Circuit theory  
IEC 60909-3:2009/Corr. 1:2013  
Short-circuit currents in three phase AC systems – Part 3: Currents during two separate simultaneous line-to-earth short circuits and partial short-circuit currents flowing through earth; Corrigendum 1

**17.220.20 Mjerenje električnih i magnetskih veličina**

**Međunarodna normizacija  
IEC**

IEC/TR 62797:2013  
International comparison of measurements of the magnetic moment using Vibrating Sample Magnetometers (VSM) and Superconducting Quantum Interference Device (SQUID) magnetometers

IEC/TR 62836:2013  
Measurement of internal electric field in insulating materials – Pressure wave propagation method

**17.240 Mjerenja zračenja**

**Europska normizacija  
CENELEC**

EN 62598:2013  
Nuclear instrumentation – Constructional requirements and classification of radiometric gauges (IEC 62598:2011)

**Međunarodna normizacija  
ISO**

ISO 13164-1:2013  
Water quality – Radon-222 – Part 1: General principles  
ISO 13164-2:2013  
Water quality – Radon-222 – Part 2: Test method using gamma-ray spectrometry  
ISO 13164-3:2013  
Water quality – Radon-222 – Part 3: Test method using emanometry

**IEC**

IEC 61435:2013  
Nuclear instrumentation – High-purity germanium crystals for radiation detectors – Measurement methods of basic characteristics

**19.120 Analiza veličine čestica. Prosijavanje**

**Međunarodna normizacija  
ISO**

ISO 3310-2:2013  
Test sieves – Technical requirements and testing – Part 2: Test sieves of perforated metal plate  
ISO 20998-2:2013  
Measurement and characterization of particles by acoustic methods – Part 2: Guidelines for linear theory

**21.040.10 Metrički vijčani navoji**

**Međunarodna normizacija  
ISO**

ISO 965-1:2013  
ISO general purpose metric screw threads – Tolerances – Part 1: Principles and basic data

**21.060.10 Vijci i svorni vijci**

**Europska normizacija  
CEN**

EN ISO 14581:2013  
Fasteners – Hexalobular socket countersunk flat head screws (ISO 14581:2013)  
EN ISO 14582:2013  
Fasteners – Hexalobular socket countersunk head screws, high head (ISO 14582:2013)

## Međunarodna normizacija

### ISO

- ISO 14581:2013  
Fasteners – Hexalobular socket countersunk flat head screws
- ISO 14582:2013  
Fasteners – Hexalobular socket countersunk head screws, high head

## 21.100.10 Klizni ležajevi

### Međunarodna normizacija

#### ISO

- ISO 12130-2:2013  
Plain bearings – Hydrodynamic plain tilting pad thrust bearings under steady-state conditions – Part 2: Functions for calculation of tilting pad thrust bearings

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija

#### ISO

- ISO 1206:2001/Amd 1:2013  
Rolling bearings – Needle roller bearings, dimension series 48, 49 and 69 – Boundary dimensions and tolerances – Amendment 1: Tolerances for shaft raceway
- ISO 10317:2008/Amd 1:2013  
Rolling bearings – Tapered roller bearings – Designation system – Amendment 1: Design variant designation and comparison of tolerance class designations for single-row tapered roller bearings

## 21.120.40 Uravnoteženje i strojevi za uravnoteženje

### Međunarodna normizacija

#### ISO

- ISO 21940-31:2013  
Mechanical vibration – Rotor balancing – Part 31: Susceptibility and sensitivity of machines to unbalance

## 21.200 Zupčanici

### Međunarodna normizacija

#### ISO

- ISO 1328-1:2013  
Cylindrical gears – ISO system of flank tolerance classification – Part 1: Definitions and allowable values of deviations relevant to flanks of gear teeth

## 23.020.20 Posude i kontejneri ugrađeni na vozila

### Europska normizacija

#### CEN

- EN 16249:2013  
Tanks for the transport of dangerous goods – Service equipment – Cap for the adaptor for bottom loading and unloading

## 23.020.30 Tlačne posude, cilindrični plinski

## spremnici

### Europska normizacija

#### CEN

- EN ISO 3807:2013  
Gas cylinders – Acetylene cylinders – Basic requirements and type testing (ISO 3807:2013)

### Međunarodna normizacija

#### ISO

- ISO 3807:2013  
Gas cylinders – Acetylene cylinders – Basic requirements and type testing
- ISO 11515:2013  
Gas cylinders – Refillable composite reinforced tubes of water capacity between 450 L and 3000 l – Design, construction and testing

## 23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

### Europska normizacija

#### CEN

- EN 1594:2013  
Gas infrastructure – Pipelines for maximum operating pressure over 16 bar – Functional requirements
- EN 13480-2:2012/A1:2013  
Metallic industrial piping – Part 2: Materials
- EN 13480-4:2012/A1:2013  
Metallic industrial piping – Part 4: Fabrication and installation
- EN 13480-5:2012/A1:2013  
Metallic industrial piping – Part 5: Inspection and testing

## 23.040.20 Plastične cijevi

### Europska normizacija

#### CEN

- EN 12201-2:2011+A1:2013  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes

## 23.040.60 Prirubnice, spojnice i spojevi

### Europska normizacija

#### CEN

- EN 1591-4:2013  
Flanges and their joints – Part 4: Qualification of personnel competency in the assembly of the bolted connections of critical service pressurized systems

### Međunarodna normizacija

#### ISO

- ISO 27509:2012/Cor 1:2013  
Petroleum and natural gas industries – Compact flanged connections with IX seal ring; Technical Corrigendum 1

## 23.040.70 Crijeva i crijevni sklopovi

### Europska normizacija

#### CEN

- EN ISO 14113:2013  
Gas welding equipment – Rubber and plastics hose

and hose assemblies for use with industrial gases up to 450 bar (45 MPa) (ISO 14113:2013)

**Međunarodna normizacija  
ISO**

ISO 14113:2013  
Gas welding equipment – Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa)

**23.040.80 Brtvila za cijevi i crijevni  
sklopovi**

**Europska normizacija  
CEN**

EN 12560-2:2013  
Flanges and their joints – Dimensions of gaskets for Class-designated flanges – Part 2: Spiral wound gaskets for use with steel flanges

**23.040.99 Ostali sastavni dijelovi za  
cjevovode**

**Europska normizacija  
CEN**

EN 15280:2013  
Evaluation of a.c. corrosion likelihood of buried pipelines applicable to cathodically protected pipelines

**23.060.20 Slavine**

**Europska normizacija  
CEN**

EN 1983:2013  
Industrial valves – Steel ball valves

**23.060.30 Zasuni**

**Međunarodna normizacija  
ISO**

ISO 10631:2013  
Metallic butterfly valves for general purposes

**23.060.40 Regulatori tlaka**

**Europska normizacija  
CEN**

EN ISO 12209:2013  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air (ISO 12209:2013)

**Međunarodna normizacija  
ISO**

ISO 12209:2013  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air

**23.140 Kompresori i pneumatski  
strojevi**

**Međunarodna normizacija  
ISO**

ISO 11011:2013  
Compressed air – Energy efficiency – Assessment

**25.040.01 Sustavi industrijske  
automatizacije općenito**

**Međunarodna normizacija  
IEC**

IEC/TR 62837:2013  
Energy efficiency through automation systems

**25.080.50 Strojevi za brušenje i poliranje**

**Europska normizacija  
CENELEC**

EN 61029-2-10:2010/A11:2013  
Safety of transportable motor-operated electric tools – Part 2-10: Particular requirements for cutting-off grinders

**25.080.60 Strojne pile**

**Europska normizacija  
CENELEC**

EN 61029-2-9:2012/A11:2013  
Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws  
EN 61029-2-11:2012/A11:2013  
Safety of transportable motor-operated electric tools – Part 2-11: Particular requirements for combined mitre and bench saws

**25.100.01 Alati za rezanje općenito**

**Međunarodna normizacija  
ISO**

ISO 883:2013  
Indexable hardmetal (carbide) inserts with rounded corners, without fixing hole – Dimensions

**25.100.20 Alati za glodanje**

**Međunarodna normizacija  
ISO**

ISO 3338-2:2013  
Cylindrical shanks for milling cutters – Part 2: Dimensional characteristics of flatted cylindrical shanks  
ISO 6262-1:2013  
End mills with indexable inserts – Part 1: End mills with flatted cylindrical shank  
ISO 6262-2:2013  
End mills with indexable inserts – Part 2: End mills with Morse taper shank  
ISO 6986:2013  
Side and face milling (slotting) cutters with indexable inserts – Dimensions  
ISO 7755-1:2013  
Hardmetal burrs – Part 1: General specifications  
ISO 7755-2:2013  
Hardmetal burrs – Part 2: Cylindrical burrs (style A)  
ISO 7755-3:2013  
Hardmetal burrs – Part 3: Cylindrical round- (ball-) nose burrs (style C)  
ISO 7755-4:2013  
Hardmetal burrs – Part 4: Spherical burrs (style D)  
ISO 7755-5:2013  
Hardmetal burrs – Part 5: Oval burrs (style E)  
ISO 7755-6:2013  
Hardmetal burrs – Part 6: Arch round- (ball-) nose

- burrs (style F)  
ISO 7755-7:2013  
Hardmetal burrs – Part 7: Arch pointed-nose burrs (style G)  
ISO 7755-8:2013  
Hardmetal burrs – Part 8: Flame burrs (style H)  
ISO 7755-9:2013  
Hardmetal burrs – Part 9: 60 degrees and 90 degrees cone burrs (styles J and K)  
ISO 7755-10:2013  
Hardmetal burrs – Part 10: Conical round- (ball-) nose burrs (style L)  
ISO 7755-11:2013  
Hardmetal burrs – Part 11: Conical pointed-nose burrs (style M)  
ISO 7755-12:2013  
Hardmetal burrs – Part 12: Inverted cone burrs (style N)

### 25.120.30 Oprema za lijevanje

#### Međunarodna normizacija ISO

- ISO 8405:2013  
Tools for moulding – Ejector sleeves with cylindrical head – Basic series for general purposes

### 25.120.40 Elektrokemijski strojevi

#### Europska normizacija CEN

- EN ISO 28881:2013  
Machine tools – Safety – Electro-discharge machines (ISO 28881:2013)  
EN ISO 28881:2013/AC:2013  
Machine tools – Safety – Electro-discharge machines – Technical Corrigendum 1 (ISO 28881:2013/Cor 1:2013)

#### Međunarodna normizacija ISO

- ISO 28881:2013  
Machine tools – Safety – Electro-discharge machines  
ISO 28881:2013/Cor 1:2013  
Machine tools – Safety – Electro-discharge machines; Technical Corrigendum 1

### 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

#### Europska normizacija CEN

- EN ISO 14732:2013  
Welding personnel – Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials (ISO 14732:2013)

#### Međunarodna normizacija ISO

- ISO 14732:2013  
Welding personnel – Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials

### 25.160.10 Procesi zavarivanja

#### Međunarodna normizacija ISO

- ISO 9606-1:2012/Cor 2:2013  
Qualification testing of welders – Fusion welding – Part 1: Steels; Technical Corrigendum 2

### 25.160.30 Oprema za zavarivanje

#### Europska normizacija CEN

- EN ISO 14113:2013  
Gas welding equipment – Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa) (ISO 14113:2013)

#### Međunarodna normizacija ISO

- ISO 14113:2013  
Gas welding equipment – Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa)

### 25.160.40 Zavareni spojevi i zavari

#### Europska normizacija CEN

- EN ISO 6520-2:2013  
Welding and allied processes – Classification of geometric imperfections in metallic materials – Part 2: Welding with pressure (ISO 6520-2:2013)  
EN ISO 9017:2013  
Destructive tests on welds in metallic materials – Fracture test (ISO 9017:2001)  
EN ISO 9692-1:2013  
Welding and allied processes – Types of joint preparation – Part 1: Manual metal arc welding, gas-shielded metal arc welding, gas welding, TIG welding and beam welding of steels (ISO 9692-1:2013)  
EN ISO 10675-1:2013  
Non-destructive testing of welds – Acceptance levels for radiographic testing – Part 1: Steel, nickel, titanium and their alloys (ISO 10675-1:2008)  
EN ISO 10675-2:2013  
Non-destructive testing of welds – Acceptance levels for radiographic testing – Part 2: Aluminium and its alloys (ISO 10675-2:2010)  
EN ISO 15626:2013  
Non-destructive testing of welds – Time-of-flight diffraction technique (TOFD) – Acceptance levels (ISO 15626:2011)  
EN ISO 17639:2013  
Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds (ISO 17639:2003)

#### Međunarodna normizacija ISO

- ISO 6520-2:2013  
Welding and allied processes – Classification of geometric imperfections in metallic materials – Part 2: Welding with pressure  
ISO 9692-1:2013

Welding and allied processes – Types of joint preparation – Part 1: Manual metal arc welding, gas-shielded metal arc welding, gas welding, TIG welding and beam welding of steels

## 25.180.10 Električne peći

### Međunarodna normizacija IEC

- IEC 62395-1:2013  
Electrical resistance trace heating systems for industrial and commercial applications – Part 1: General and testing requirements
- IEC 62395-2:2013  
Electrical resistance trace heating systems for industrial and commercial applications – Part 2: Application guide for system design, installation and maintenance

## 25.220.20 Površinska obrada

### Europska normizacija CEN

- EN ISO 27830:2013  
Metallic and other inorganic coatings – Guidelines for specifying metallic and inorganic coatings (ISO 27830:2008)

### Međunarodna normizacija ISO

- ISO 7583:2013  
Anodizing of aluminium and its alloys – Terms and definitions

## 25.220.40 Metalne prevlake

### Europska normizacija CEN

- EN ISO 27830:2013  
Metallic and other inorganic coatings – Guidelines for specifying metallic and inorganic coatings (ISO 27830:2008)

## 25.220.60 Organske prevlake

### Europska normizacija CEN

- EN 13438:2013  
Paints and varnishes – Powder organic coatings for hot dip galvanised or sherardised steel products for construction purposes

## 27.010 Tehnika prijenosa energije i topline općenito

### Europska normizacija CEN/CENELEC

- CEN/CLC/TR 16567:2013  
Energy Efficiency Obligation Schemes in Europe – Overview and analysis of main features and possibilities for harmonisation

### Međunarodna normizacija IEC

- IEC 62325-351:2013  
Framework for energy market communications – Part 351: CIM European market model exchange profile

## 27.020 Motori s unutrašnjim izgaranjem

### Međunarodna normizacija ISO

- ISO 4548-5:2013  
Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 5: Test for cold start simulation and hydraulic pulse durability
- ISO 4548-13:2013  
Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 13: Static burst pressure test for composite filter housings
- ISO 15619:2013  
Reciprocating internal combustion engines – Measurement method for exhaust silencers – Sound power level of exhaust noise and insertion loss using sound pressure and power loss ratio

## 27.070 Gorivi članci

### Europska normizacija CENELEC

- EN 62282-3-201:2013  
Fuel cell technologies – Part 3-201: Stationary fuel cell power systems – Performance test methods for small fuel cell power systems (IEC 62282-3-201: 2013)

## 27.080 Dizalice topline

### Europska normizacija CEN

- EN 14511-2:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions
- EN 14511-4:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Operating requirements, marking and instructions
- EN 14825:2013  
Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling – Testing and rating at part load conditions and calculation of seasonal performance
- EN 14511-1:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms, definitions and classification

### CENELEC

- EN 60335-2-40/A13:2012/AC:2013  
Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers

## 27.140 Hidroenergetika

### Međunarodna normizacija IEC

IEC 62270:2013  
Guide for Computer-based control for hydroelectric power plant automation

voltages up to and including 450/750 V (U0/U) – Part 3-21: Cables with special fire performance – Flexible cables with halogen-free crosslink insulation, and low emission of smoke

## 27.160 Solarna energetika

### Međunarodna normizacija IEC

IEC 62670-1:2013  
Concentrator photovoltaic (CPV) performance testing – Part 1: Standard conditions

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

EN 62506:2013  
Methods for product accelerated testing (IEC 62506:2013)

EN 62542:2013  
Environmental standardization for electrical and electronic products and systems – Standardization of environmental aspects – Glossary of terms (IEC 62542:2013)

### Međunarodna normizacija IEC

IEC 60050-131:2002/am2:2013  
International Electrotechnical Vocabulary – Part 131: Circuit theory

## 29.030 Magnetni materijali

### Međunarodna normizacija IEC

IEC/TR 62797:2013  
International comparison of measurements of the magnetic moment using Vibrating Sample Magnetometers (VSM) and Superconducting Quantum Interference Device (SQUID) magnetometers

## 29.035.01 Izolacijski materijali općenito

### Međunarodna normizacija IEC

IEC/TR 62836:2013  
Measurement of internal electric field in insulating materials – Pressure wave propagation method

## 29.035.20 Plastični i gumeni izolacijski materijali

### Europska normizacija CENELEC

EN 50525-2-21:2011/AC:2013  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-21: Cables for general applications – Flexible cables with crosslinked elastomeric insulation

EN 50525-3-21:2011/AC:2013  
Electric cables – Low voltage energy cables of rated

## 29.050 Supravodljivost i vodljivi materijali

### Međunarodna normizacija IEC

IEC 61788-18:2013  
Superconductivity – Part 18: Mechanical properties measurement – Room temperature tensile test of Ag- and/or Ag alloy-sheathed Bi-2223 and Bi-2212 composite superconductors

## 29.060.10 Žice

### Europska normizacija CENELEC

EN 50182:2001/AC:2013  
Conductors for overhead lines – Round wire concentric lay stranded conductors

EN 60851-3:2009/A1:2013  
Winding wires – Test methods – Part 3: Mechanical properties (IEC 60851-3:2009/A1:2013)

### Međunarodna normizacija IEC

IEC 60317-0-3:2008/am 1:2013  
Specifications for particular types of winding wires – Part 0-3: General requirements – Enamelled round aluminum wire

IEC 60317-0-3 Edition 3.1:2013  
Specifications for particular types of winding wires – Part 0-3: General requirements – Enamelled round aluminum wire

## 29.060.20 Kabeli

### Europska normizacija CENELEC

EN 50525-2-21:2011/AC:2013  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 2-21: Cables for general applications – Flexible cables with crosslinked elastomeric insulation

EN 50525-3-21:2011/AC:2013  
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 crosslink insulation, and low emission of smoke

EN 61034-2:2005/A1:2013  
Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements (IEC 61034-2:2005/A1:2013)

## 29.080.20 Provodni izolatori

**Europska normizacija  
CENELEC**

EN 50386:2010/A1:2013  
Bushings up to 1 kV and from 250 A to 5 kA, for liquid filled transformers

**29.100.01 Sastavni dijelovi za električnu opremu općenito**

**Međunarodna normizacija  
IEC**

IEC 60050-151:2001/am1:2013  
International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices

**29.100.99 Ostali električki sastavni dijelovi**

**Međunarodna normizacija  
IEC**

IEC 60529 am2:2013  
Amendment 2 – Degrees of protection provided by enclosures (IP Code)  
IEC 60529 Edition 2.2:2013  
Degrees of protection provided by enclosures (IP code)

**29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu**

**Europska normizacija  
CENELEC**

HD 60269-2:2013  
Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K (IEC 60269-2:2013, modified)

**Međunarodna normizacija  
IEC**

IEC 61008-1 AMD 2:2013  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules  
IEC 61008-1 Edition 3.2:2013  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules  
IEC 61009-1 AMD 2:2013  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules  
IEC 61009-1 Edition 3.2:2013  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules

**29.120.70 Sklopnici (releji)**

**Europska normizacija  
CENELEC**

EN 60255-149:2013  
Measuring relays and protection equipment – Part 149: Functional requirements for thermal electrical relays (IEC 60255-149:2013)

**29.130.10 Visokonaponski rasklopni i upravljački uređaji**

**Europska normizacija  
CENELEC**

EN 62271-112:2013  
High-voltage switchgear and controlgear – Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines (IEC 62271-112:2013)

**Međunarodna normizacija  
IEC**

IEC 62271-4:2013  
High-voltage switchgear and controlgear – Part 4: Handling procedures for sulphur hexafluoride (SF6) and its mixtures  
IEC 62271-112:2013  
High-voltage switchgear and controlgear – Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines

**29.130.20 Niskonaponski rasklopni i upravljački uređaji**

**Europska normizacija  
CENELEC**

EN 61439-1:2011/AC:2013  
Low-voltage switchgear and controlgear assemblies – Part 1: General rules

**Međunarodna normizacija  
IEC**

IEC 60947-5-3:2013  
Low-voltage switchgear and controlgear – Part 5-3: Control circuit devices and switching elements – Requirements for proximity devices with defined behaviour under fault conditions (PDDb)  
IEC 60947-7-4:2013  
Low-voltage switchgear and controlgear – Part 7-4: Ancillary equipment – PCB terminal blocks for copper conductors  
IEC 61439-3:2012/Corr. 1:2013  
Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO); Corrigendum 1

**29.140.01 Svjetiljke općenito**

**Europska normizacija  
CENELEC**

EN 55015:2013  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013)  
EN 61231:2010/A1:2013  
Amendment 1 to IEC 61231, Ed. 1: International lamp coding system (ILCOS) (IEC 61231:2010/A1:2013)

**29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem**

**Europska normizacija**

## CENELEC

EN 60081:1998/A5:2013  
Double-capped fluorescent lamps – Performance specifications (IEC 60081:1997/A5:2013)

### 29.140.40 Rasvjetna tijela

#### Europska normizacija CENELEC

EN 60598-2-24:2013  
Luminaires – Part 2-24: Particular requirements – Luminaires with limited surface temperatures (IEC 60598-2-24:2013)

### 29.140.99 Ostale norme koje se odnose na svjetiljke

#### Međunarodna normizacija IEC

IEC 60927:2007/am 1:2013  
Auxiliaries for lamps – Starting devices (other than glow starters) – Performance requirements

IEC 60927 Edition 3.1:2013  
Auxiliaries for lamps – Starting devices (other than glow starters) – Performance requirements

IEC 61347-2-1 AMD 2:2013  
Lamp controlgear – Part 2-1: Particular requirements for starting devices (other than glow starters); Amendment 2

IEC 61347-2-1 Edition 1.2:2013  
Lamp controlgear – Part 2-1: Particular requirements for starting devices (other than glow starters)

### 29.160.30 Motori

#### Međunarodna normizacija ISO

ISO 20958:2013  
Condition monitoring and diagnostics of machine systems – Electrical signature analysis of three-phase induction motors

### 29.180 Transformatori. Prigušnice

#### Europska normizacija CENELEC

EN 61558-2-26:2013  
Safety of transformers, reactors, power supply units and combinations thereof – Part 2-26: Particular requirements and tests for transformers and power supply units all for saving energy and other purposes (IEC 61558-2-26:2013)

#### Međunarodna normizacija IEC

IEC 60076-14:2013  
Power transformers – Part 14: Liquid-immersed power transformers using high-temperature insulation materials

IEC 61558-2-16:2009/am1:2013  
Safety of transformers, reactors, power supply units and combinations thereof – Part 2-16: Particular requirements and test for switch mode power supply units and transformers for switch mode power supply units

IEC 61558-2-16 Edition 1.1:2013

Safety of transformers, reactors, power supply units and similar products for voltages up to 1100 V – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units

### 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

#### Međunarodna normizacija IEC

IEC/TR 62543-am1:2013  
Amendment 1 – High-voltage direct current (HVDC) power transmission using voltage sourced converters (VSC)

IEC 62680-3:2013  
Universal Serial Bus interfaces for data and power – Part 3: USB Battery Charging Specification, Revision 1.2

### 29.240.20 Vodovi za prijenos i razdiobu električne energije

#### Međunarodna normizacija IEC

IEC 62567:2013  
Overhead lines – Methods for testing self-damping characteristics of conductors

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

#### Međunarodna normizacija IEC

IEC/TR 62543-am1:2013  
Amendment 1 – High-voltage direct current (HVDC) power transmission using voltage sourced converters (VSC)

### 29.280 Oprema za električnu vuču

#### Europska normizacija CENELEC

EN 50388:2012/AC:2013  
Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability

#### Međunarodna normizacija IEC

IEC 62128-1:2013  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock

IEC 62128-2:2013  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 2: Provisions against the effects of stray currents caused by d.c. traction systems

IEC 62128-3:2013  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 3: Mutual



interaction of a.c. and d.c. traction systems

## **31.020 Elektronički sastavni dijelovi općenito**

### **Europska normizacija CENELEC**

EN 62542:2013

Environmental standardization for electrical and electronic products and systems – Standardization of environmental aspects – Glossary of terms (IEC 62542:2013)

## **31.060.10 Nepromjenjivi kondenzatori**

### **Međunarodna normizacija IEC**

IEC 61881-3:2012/am1:2013

Railway applications – Rolling stock equipment – Capacitors for power electronics – Part 3: Electric double-layer capacitors

IEC 61881-3 Edition 1.1:2013

Railway applications – Rolling stock equipment – Capacitors for power electronics – Part 3: Electric double-layer capacitors

## **31.060.70 Energetski kondenzatori**

### **Međunarodna normizacija IEC**

IEC 60252-1:2010/am1:2013

AC motor capacitors – Part 1: General – Performance, testing and rating – Safety requirements – Guidance for installation and operation

IEC 60252-1 Edition 2.1:2013

AC motor capacitors – Part 1: General – Performance, testing and rating – Safety requirements – Guidance for installation and operation

IEC 60252-2:2010/am1:2013

AC motor capacitors – Part 2: Motor start capacitors

IEC 60252-2 Edition 2.1:2013

AC motor capacitors – Part 2: Motor start capacitors

IEC 62146-1:2013

Grading capacitors for high-voltage alternating current circuit-breakers – Part 1: General

## **31.060.99 Ostali kondenzatori**

### **Međunarodna normizacija IEC**

IEC 60358-2:2013

Coupling capacitors and capacitor dividers – Part 2: AC or DC single-phase coupling capacitor connected between line and ground for power line carrier-frequency (PLC) application

## **31.080.01 Poluvodičke naprave općenito**

### **Europska normizacija CENELEC**

EN 62047-11:2013

Semiconductor devices – Micro-electromechanical devices – Part 11: Test method for coefficients of linear thermal expansion of free-standing materials for micro-electromechanical systems (IEC 62047-11:2013)

EN 62047-18:2013

Semiconductor devices – Micro-electromechanical devices – Part 18: Bend testing methods of thin film materials (IEC 62047-18:2013)

### **Međunarodna normizacija IEC**

IEC 62483:2013

Environmental acceptance requirements for tin whisker susceptibility of tin and tin alloy surface finishes on semiconductor devices

## **31.120 Elektronički uređaji za prikazivanje**

### **Međunarodna normizacija IEC**

IEC 62679-3-2:2013

Electronic paper display – Part 3-2: Measuring method – Electro-optical

## **31.200 Integrirani krugovi. Mikroelektronika**

### **Europska normizacija CENELEC**

EN 62215-3:2013

Integrated circuits – Measurement of impulse immunity – Part 3: Non-synchronous transient injection method (IEC 62215-3:2013)

## **31.220.01 Elektromehanički sastavni dijelovi općenito**

### **Europska normizacija CENELEC**

EN 62047-11:2013

Semiconductor devices – Micro-electromechanical devices – Part 11: Test method for coefficients of linear thermal expansion of free-standing materials for micro-electromechanical systems (IEC 62047-11:2013)

EN 62047-18:2013

Semiconductor devices – Micro-electromechanical devices – Part 18: Bend testing methods of thin film materials (IEC 62047-18:2013)

EN 62047-19:2013

Semiconductor devices – Micro-electromechanical devices – Part 19: Electronic compasses (IEC 62047-19:2013)

## **31.220.10 Utikačke i utičničke naprave. Konektori**

### **Međunarodna normizacija IEC**

IEC/TR 62632:2013

Nanoscale electrical contacts and interconnects

IEC 62680-2:2013

Universal Serial Bus interfaces for data and power – Part 2: USB Micro-USB Cables and Connectors Specification, Revision 1.01

## **31.240 Mehaničke konstrukcije za elektroničku opremu**

## Međunarodna normizacija

### IEC

IEC 62610-4:2013

Mechanical structures for electronic equipment – Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series – Part 4: Cooling performance tests for water supplied heat exchangers in electronic cabinets

## 31.260 Optoelektronika. Laserska oprema

### Europska normizacija

#### CEN

EN ISO 11252:2013

Lasers and laser-related equipment – Laser device – Minimum requirements for documentation (ISO 11252:2013)

#### CENELEC

EN 62341-5-2:2013

Organic Light Emitting Diode (OLED) displays – Part 5-2: Mechanical endurance testing methods (IEC 62341-5-2:2013)

## Međunarodna normizacija

### ISO

ISO 11252:2013

Lasers and laser-related equipment – Laser device – Minimum requirements for documentation

### IEC

IEC 62341-5-3:2013

Organic Light Emitting Diode (OLED) displays – Part 5-3: Measuring methods of image sticking and lifetime

IEC 62679-3-2:2013

Electronic paper display – Part 3-2: Measuring method – Electro-optical

## 33.040.01 Telekomunikacijski sustavi općenito

### Europska normizacija

#### ETSI

ETSI SR 001996 V 6.1.1:2013

Human Factors (HF) – An annotated bibliography of documents dealing with Human Factors and disability

ETSI TR 102299 V 1.3.1:2013

Emergency Communications (EMTEL) – Collection of European Regulatory Texts and orientations

ETSI TS 102706 V 1.3.1:2013

Environmental Engineering (EE) – Measurement method for energy efficiency of wireless access network equipment

ETSI TS 119412-2 V 1.2.1:2013

Electronic Signatures and Infrastructures (ESI) – Profiles for Trust Service Providers issuing certificates – Part 2: Certificate Profile for certificates issued to natural persons

ETSI GS OEU 001 V 1.2.3:2013

Operational energy Efficiency for Users (OEU) – Technical Global KPIs for Data Centres

ETSI ES 203156 V 1.1.1:2013

Environmental Engineering (EE) – Thermal Management requirements for outdoor enclosures

## 33.040.35 Telefonske mreže

### Europska normizacija

#### ETSI

ETSI TS 102232-1 V 3.4.1:2013

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery

ETSI TS 102232-1 V 3.4.2:2013

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery

ETSI TS 102232-2 V 3.5.1:2013

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 2: Service-specific details for messaging services

ETSI TS 102232-6 V 3.2.1:2013

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 6: Service-specific details for PSTN/ISDN services

ETSI TS 102232-7 V 3.2.1:2013

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services

ETSI TS 102657 V 1.12.1:2013

Lawful Interception (LI) – Retained data handling – Handover interface for the request and delivery of retained data

## 33.040.40 Mreže za prijenos podataka

### Međunarodna normizacija

#### IEC

IEC/TR 61850-90-4:2013

Communication networks and systems for power utility automation – Part 90-4: Network engineering guidelines

## 33.040.99 Ostala oprema za komunikacijske sustave

### Europska normizacija

#### ETSI

ETSI TS 101597-1 V 1.1.1:2013

IMS Network Testing (INT) – Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 101597-2 V 1.1.1:2013

IMS Network Testing (INT) – Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 102710-2 V 3.3.1:2013

IMS Network Testing (INT) – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186008-2 V 2.1.1:2013

IMS Network Testing (INT) – IMS/NGN Performance Benchmark – Part 2: Subsystem Configurations and Benchmarks

## 33.050.01 Telekomunikacijska terminalna oprema općenito

## Europska normizacija

### ETSI

EN 300019-2-4 V 2.3.1:2013

Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations

## 33.060.20 Prijamna i odašiljačka oprema

### Europska normizacija

#### ETSI

EN 300296-1 V 1.4.1:2013

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – Radio equipment using integral antennas intended primarily for analogue speech – Part 1: Technical characteristics and methods of measurement

EN 300296-2 V 1.4.1:2013

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – Radio equipment using integral antennas intended primarily for analogue speech – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301033 V 1.4.1:2013

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Technical characteristics and methods of measurement for shipborne watchkeeping receivers for reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and VHF bands

## 33.060.40 Kabelski distribucijski sustavi

### Europska normizacija

#### ETSI

ETSI TS 101271 V 1.2.1:2013

Access, Terminals, Transmission and Multiplexing (ATTM) – Access transmission systems on metallic access cables – Very High Speed digital subscriber line system (VDSL2) [Recommendation ITU-T G.993.2 modified]

ETSI TS 102804 V 1.1.1:2013

Access, Terminals, Transmission and Multiplexing (ATTM) – Access transmission systems on metallic access cables – Multi-Operation DSL Performance Requirements

## 33.060.99 Ostala oprema za radiokomunikacije

### Europska normizacija

#### ETSI

EN 301390 V 1.3.1:2013

Fixed Radio Systems – Point-to-point and Multipoint Systems – Unwanted emissions in the spurious domain and receiver immunity limits at equipment/antenna port of Digital Fixed Radio Systems

## 33.070.30 Digitalne poboljšane bežične

## telekomunikacije (DECT)

### Europska normizacija

#### ETSI

EN 300175-1 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview

EN 300175-2 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL)

EN 300175-3 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer

EN 300175-4 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer

EN 300175-5 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer

EN 300175-6 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing

EN 300175-7 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features

EN 300175-8 V 2.5.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission

EN 300444 V 2.4.1:2013

Digital Enhanced Cordless Telecommunications (DECT) – Generic Access Profile (GAP)

## 33.070.40 Sateliti

### Europska normizacija

#### ETSI

ETSI TR 102641 V 1.2.2:2013

Satellite Earth Stations and Systems (SES) – Overview of present satellite emergency communications resources

ETSI TS 102721-1 V 1.2.1:2013

Satellite Earth Stations and Systems (SES) – Air Interface for S-band Mobile Interactive Multimedia (S-MIM) – Part 1: General System Architecture and Configurations

ETSI TS 102721-2 V 1.2.1:2013

Satellite Earth Stations and Systems (SES) – Air Interface for S-band Mobile Interactive Multimedia (S-MIM) – Part 2: Forward Link Subsystem Requirements

ETSI TS 102721-3 V 1.2.1:2013

Satellite Earth Stations and Systems (SES) – Air Interface for S-band Mobile Interactive Multimedia (S-MIM) – Part 3: Physical Layer Specification, Return Link Asynchronous Access

ETSI TS 102721-4 V 1.2.1:2013

Satellite Earth Stations and Systems (SES) – Air Interface for S-band Mobile Interactive Multimedia (S-MIM) – Part 4: Physical Layer Specification, Return Link Synchronous Access

ETSI TS 102721-5 V 1.2.1:2013-

Satellite Earth Stations and Systems (SES) – Air Interface for S-band Mobile Interactive Multimedia

- (S-MIM) – Part 5: Protocol Specifications, Link Layer  
 ETSI TS 102721-6 V 1.2.1:2013  
 Satellite Earth Stations and Systems (SES) – Air  
 Interface for S-band Mobile Interactive Multimedia  
 (S-MIM) – Part 6: Protocol Specifications, System  
 Signalling  
 ETSI TS 103179 V 1.1.1:2013  
 Satellite Earth Stations and Systems (SES) – Return  
 Link Encapsulation (RLE) protocol

### 33.070.50 Globalni sustavi za pokretne komunikacije (GSM)

#### Europska normizacija

##### ETSI

- ETSI TS 102281 V 2.3.0:2013  
 Railways Telecommunications (RT) – Global System  
 for Mobile communications (GSM) – Detailed  
 requirements for GSM operation on Railways  
 ETSI TS 129234 V 9.4.1:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP system to Wireless Local Area Network  
 (WLAN) interworking – Stage 3  
 (3GPP TS 29.234 version 9.4.1 Release 9)  
 ETSI TS 131115 V 8.2.1:2013  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System  
 (UMTS) – Secured packet structure for (Universal)  
 Subscriber Identity Module (U)SIM Toolkit applications  
 (3GPP TS 31.115 version 8.2.1 Release 8)  
 ETSI TS 131115 V 9.1.1:2013  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System  
 (UMTS) – Secured packet structure for (Universal)  
 Subscriber Identity Module (U)SIM Toolkit applications  
 (3GPP TS 31.115 version 9.1.1 Release 9)  
 ETSI TS 131115 V 10.1.1:2013  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System  
 (UMTS) – Secured packet structure for (Universal)  
 Subscriber Identity Module (U)SIM Toolkit applications  
 (3GPP TS 31.115 version 10.1.1 Release 10)  
 ETSI TS 132422 V 11.8.1:2013  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System  
 (UMTS) – LTE – Telecommunication management –  
 Subscriber and equipment trace – Trace control and  
 configuration management (3GPP TS 32.422 version  
 11.8.1 Release 11)  
 ETSI TS 132752 V 11.0.1:2013  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System  
 (UMTS) – Telecommunication management – Evolved  
 Packet Core (EPC) Network Resource Model (NRM)  
 Integration Reference Point (IRP) – Information Service  
 (IS) (3GPP TS 32.752 version 11.0.1 Release 11)  
 ETSI TS 134108 V 11.6.0:2013  
 Universal Mobile Telecommunications System  
 (UMTS) – LTE – Common test environments for User  
 Equipment (UE) – Conformance testing  
 (3GPP TS 34.108 version 11.6.0 Release 11)  
 ETSI TS 134121-1 V 10.7.0:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification  
 – Radio transmission and reception (FDD) – Part 1:  
 Conformance specification (3GPP TS 34.121-1 version  
 10.7.0 Release 10)  
 ETSI TS 134121-1 V 11.0.1:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification  
 – Radio transmission and reception (FDD) – Part 1:

- Conformance specification (3GPP TS 34.121-1 version  
 11.0.1 Release 11)  
 ETSI TS 134122 V 11.5.0:2013  
 Universal Mobile Telecommunications System  
 (UMTS) – Terminal conformance specification – Radio  
 transmission and reception (TDD)  
 (3GPP TS 34.122 version 11.5.0 Release 11)  
 ETSI TS 134123-1 V 10.5.1:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification –  
 Part 1: Protocol conformance specification  
 (3GPP TS 34.123-1 version 10.5.1 Release 10)  
 ETSI TS 134123-2 V 10.5.0:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification –  
 Part 3: Abstract test suite (ATS)  
 (3GPP TS 34.123-3 version 10.4.0 Release 10)  
 ETSI TS 134123-3 V 10.4.0:2013  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification –  
 Part 3: Abstract test suite (ATS)  
 (3GPP TS 34.123-3 version 10.4.0 Release 10)  
 ETSI TS 136111 V 11.0.0:2013  
 LTE – Location Measurement Unit (LMU) performance  
 specification – Network based positioning systems in  
 Evolved Universal Terrestrial Radio Access Network  
 (E-UTRAN) (3GPP TS 36.111 version 11.0.0 Release 11)  
 ETSI TS 136133 V 8.22.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for support of radio  
 resource management (3GPP TS 36.133 version  
 8.22.0 Release 8)  
 ETSI TS 136133 V 9.16.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for support of radio  
 resource management (3GPP TS 36.133 version  
 9.16.0 Release 9)  
 ETSI TS 136133 V 10.11.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for support of radio resource  
 management (3GPP TS 36.133 version 10.11.0  
 Release 10)  
 ETSI TS 136133 V 11.5.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for support of radio  
 resource management (3GPP TS 36.133 version  
 11.5.0 Release 11)  
 ETSI TS 136171 V 9.3.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for Support of Assisted  
 Global Navigation Satellite System (A-GNSS)  
 (3GPP TS 36.171 version 9.3.0 Release 9)  
 ETSI TS 136171 V 10.2.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for Support of Assisted  
 Global Navigation Satellite System (A-GNSS)  
 (3GPP TS 36.171 version 10.2.0 Release 10)  
 ETSI TS 136171 V 11.1.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements for Support of Assisted  
 Global Navigation Satellite System (A-GNSS)  
 (3GPP TS 36.171 version 11.1.0 Release 11)  
 ETSI TS 136304 V 11.4.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – User Equipment (UE) procedures in idle  
 mode (3GPP TS 36.304 version 11.4.0 Release 11)  
 ETSI TS 136307 V 8.8.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access  
 (E-UTRA) – Requirements on User Equipments (UEs)  
 supporting a release-independent frequency band  
 (3GPP TS 36.307 version 8.8.0 Release 8)  
 ETSI TS 136307 V 9.8.0:2013  
 LTE – Evolved Universal Terrestrial Radio Access

- (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 9.8.0 Release 9)
- ETSI TS 136307 V 10.7.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 10.7.0 Release 10)
- ETSI TS 136307 V 11.4.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 11.4.0 Release 11)
- ETSI TS 136508 V 11.1.1:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Common test environments for User Equipment (UE) conformance testing (3GPP TS 36.508 version 11.1.1 Release 11)
- ETSI TS 136521-1 V 11.1.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 11.1.0 Release 11)
- ETSI TS 136521-3 V 10.4.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 10.4.0 Release 10)
- ETSI TS 136521-3 V 11.1.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 11.1.0 Release 11)
- ETSI TS 136523-1 V 11.3.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 11.3.0 Release 11)
- ETSI TS 136523-3 V 10.4.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 10.4.0 Release 10)
- ETSI TS 136523-3 V 11.0.0:2013  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 11.0.0 Release 11)
- ETSI TS 137104 V 9.9.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 9.9.0 Release 9)
- ETSI TS 137104 V 10.11.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 10.11.0 Release 10)
- ETSI TS 137104 V 11.5.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 11.5.0 Release 11)
- ETSI TS 137141 V 10.10.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 10.10.0 Release 10)
- ETSI TS 137141 V 11.5.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 11.5.0 Release 11)
- ETSI TS 137571-3 V 10.4.1:2013  
Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 10.4.1 Release 10)
- ETSI TS 151010-1 V 11.1.0:2013  
Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 11.1.0 Release 11)

### 33.100.10 Zračenje

#### Evropska normizacija CENELEC

- EN 55015:2013  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013)
- EN 55032:2012/AC:2013  
Electromagnetic compatibility of multimedia equipment – Emission requirements

#### ETSI

- EN 301489-3 V 1.6.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz
- ETSI TS 101602 V 1.1.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Technical Specification on Preliminary Tests and Trial to verify mitigation techniques used by RFID systems for sharing spectrum between RFID and ER-GSM
- ETSI TR 102791 V 1.2.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – System Reference Document – Short Range Devices (SRD) – Technical characteristics of wireless aids for hearing impaired people operating in the VHF and UHF frequency range
- ETSI TR 103069 V 1.1.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – System Reference Document (SRDoc) – Short Range Devices – Low Power Cochlear Implant Systems (LP-CIS) operating in the band 2483,5 MHz – 2500 MHz
- ETSI TR 103102 V 1.1.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – System Reference document (SRdoc)

- Spectrum Requirements for Narrow band Point-to-Multipoint (nP2M) system operating in the 430 MHz – 470 MHz frequency range

- ETSI TR 103149 V 1.1.1:2013  
ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM) – System Reference document (SRdoc) – DECT operating in the 1900 MHz – 1920 MHz band
- ETSI TR 103151 V 1.1.1:2013  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Tests on the immunity of Wind Profiler Radar to transmissions from RFID, ALDs and GSM

### 33.100.20 Otpornost

#### Europska normizacija CEN

- EN 12016:2013  
Electromagnetic compatibility – Product family standard for lifts, escalators and moving walks – Immunity

### 33.120.10 Koaksijalni kabeji. Valovodi

#### Europska normizacija CENELEC

- EN 50117-2-1:2005/A2:2013  
Coaxial cables -Part 2-1: Sectional specification for cables used in cabled distribution networks – Indoor drop cables for systems operating at 5 MHz – 1000 MHz
- EN 50117-2-2:2004/A2:2013  
Coaxial cables – Part 2-2: Sectional specification for cables used in cabled distribution networks – Outdoor drop cables for systems operating at 5 MHz – 1000 MHz
- EN 50117-2-3:2004/A2:2013  
Coaxial cables – Part 2-3: Sectional specification for cables used in cabled distribution networks – Distribution and trunk cables for systems operating at 5 MHz – 1000 MHz
- EN 50117-2-4:2004/A2:2013  
Coaxial cables – Part 2-4: Sectional specification for cables used in cabled distribution networks – Indoor drop cables for systems operating at 5 MHz – 3000 MHz
- EN 50117-2-5:2004/A2:2013  
Coaxial cables – Part 2-5: Sectional specification for cables used in cabled distribution networks – Outdoor drop cables for systems operating at 5 MHz – 3000 MHz

### 33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito

#### Međunarodna normizacija ISO/IEC

- ISO/IEC 14496-5:2001/Amd 24:2009/Cor 2:2013  
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 24: Reference software for AAC-ELD; Technical Corrigendum 2

### 33.160.60 Multimedijski sustavi i telekonferencijska oprema

#### Međunarodna normizacija IEC

- IEC 62481-2:2013  
Digital living network alliance (DLNA) home networked device interoperability guidelines – Part 2: DLNA media

formats (TA9)

### 33.170 Televizijski i radijski prijenos

#### Europska normizacija ETSI

- ETSI TS 101756 V 1.5.1:2013  
Digital Audio Broadcasting (DAB) – Registered Tables
- ETSI TS 102818 V 1.5.1:2013  
Digital Audio Broadcasting (DAB) – Digital Radio Mondiale (DRM) – XML Specification for Electronic Programme Guide (EPG)
- ETSI TS 103176 V 1.1.2:2013  
Digital Audio Broadcasting (DAB) – Rules of implementation – Service information features
- ETSI TS 103177 V 1.1.1:2013  
Digital Audio Broadcasting (DAB) – Filecasting – User application specification

### 33.180.10 Svjetlovodna vlakna i kabeji

#### Međunarodna normizacija IEC

- IEC 60794-1-2:2013  
Optical fibre cables – Part 1-2: Generic specification – Cross reference table for optical cable test procedures

### 33.180.20 Svjetlovodni vezne naprave

#### Europska normizacija CENELEC

- EN 61300-2-7:2013  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-7: Tests – Bending moment (IEC 61300-2-7:2013)
- EN 61300-2-28:2013  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-28: Tests – Industrial atmosphere (sulphur dioxide) (IEC 61300-2-28:2013)
- EN 61300-2-44:2013  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-44: Tests – Flexing of the strain relief of fibre optic devices (IEC 61300-2-44:2013)
- EN 61300-3-48:2013  
Fibre optic interconnect devices and passive components – Basic test and measurement procedures – Part 3-48: Measurement: Spring compression force of the coupling sleeve for rectangular ferrule multi-fibre connectors (IEC 61300-3-48:2013)

#### Međunarodna normizacija IEC

- IEC 61300-3-25:2013  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-25: Examinations and measurements – Concentricity of the non-angled ferrules and non-angled ferrules with fibre installed
- IEC 61754-1:2013  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 1: General and guidance

### 33.180.30 Optička pojačala

## Međunarodna normizacija

### IEC

- IEC 62148-17:2013  
Fibre optic active components and devices – Package and interface standards – Part 17: Transmitter and receiver components with dual coaxial RF connectors
- IEC/TR 62343-6-2:2013  
Dynamic modules – Part 6-2: Design guide -Software and hardware interfaces – Survey results

## 33.200 Daljinsko upravljanje. Daljinsko mjerenje

### Europska normizacija

#### CEN

- EN 13757-4:2013  
Communication systems for meters and remote reading of meters – Part 4: Wireless meter readout (Radio meter reading for operation in SRD bands)

#### CENELEC

- EN 61970-456:2013  
Energy Management System Application Program Interface (EMS-API) – Part 456: Solved power system state profiles (IEC 61970-456:2013)

#### ETSI

- ETSI TR 102857 V 1.1.1:2013  
Machine-to-Machine communications (M2M) – Use Cases of M2M applications for Connected Consumer
- ETSI TR 102732 V 1.1.1:2013  
Machine-to-Machine Communications (M2M) – Use Cases of M2M applications for eHealth

## 35.020 Informacijska tehnologija (IT) općenito

### Europska normizacija

#### CEN

- CWA 16624-1:2013  
e-Competence Framework for ICT Users – Part 1: Framework Content
- CWA 16624-2:2013  
e-Competence Framework for ICT Users – Part 2: User Guidelines
- CWA 16624-3:2013  
e-Competence Framework for ICT Users – Part 3: Development Guidelines

## 35.040 Skupovi znakova i kodiranje informacija

### Međunarodna normizacija

#### ISO/IEC

- ISO/IEC 14496-5:2001/Amd 24:2009/Cor 2:2013  
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 24: Reference software for AAC-ELD; Technical Corrigendum 2
- ISO/IEC 14496-10:2012/Cor 1:2013  
Information technology – Coding of audio-visual objects – Part 10: Advanced Video Coding; Technical Corrigendum 1
- ISO/IEC 14496-10:2012/Amd 2:2013  
Information technology – Coding of audio-visual objects

– Part 10: Advanced Video Coding – Amendment 2: MVC extensions for inclusion of depth maps

ISO/IEC 14496-12:2012/Cor 1:2013  
Information technology – Coding of audio-visual objects – Part 12: ISO base media file format; Technical Corrigendum 1

ISO/IEC 14496-26:2010/Cor 7:2013  
Information technology – Coding of audio-visual objects – Part 26: Audio conformance; Technical Corrigendum 7

ISO/IEC 14496-28:2012/Cor 1:2013  
Information technology – Coding of audio-visual objects – Part 28: Composite font representation; Technical Corrigendum 1

ISO/IEC 20009-1:2013  
Information technology – Security techniques – Anonymous entity authentication – Part 1: General

ISO/IEC 23003-3:2012/Cor 2:2013  
Information technology – MPEG audio technologies – Part 3: Unified speech and audio coding; Technical Corrigendum 2

ISO/IEC 23005-3:2012/Cor 1:2013  
Information technology – Media context and control – Part 3: Sensory information; Technical Corrigendum 1

ISO/IEC 23006-2:2013  
Information technology – Multimedia service platform technologies – Part 2: MPEG extensible middleware (MXM) API

ISO/IEC 23006-3:2013  
Information technology – Multimedia service platform technologies – Part 3: Conformance and reference software

ISO/IEC 24730-61:2013  
Information technology – Real time locating systems (RTLS) – Part 61: Low rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 24730-62:2013  
Information technology – Real time locating systems (RTLS) – Part 62: High rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 27033-5:2013  
Information technology – Security techniques – Network security – Part 5: Securing communications across networks using Virtual Private Networks (VPNs)

IEC 60950-1:2005/Corr.2:2013  
Information technology equipment – Safety – Part 1: General requirements; Corrigendum 2

IEC 62443-3-3:2013  
Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels

IEC 62481-2:2013  
Digital living network alliance (DLNA) home networked device interoperability guidelines – Part 2: DLNA media formats (TA9)

## 35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji

### Međunarodna normizacija

#### ISO/IEC

ISO/IEC/IEEE 9945 Technical Corrigendum 1:2013  
Information technology – Portable Operating System Interface (POSIX®) Base Specifications, Issue 7; Technical Corrigendum 1

IEC 61131-9:2013  
Programmable Controllers – Part 9: Single-drop digital communication interface for small sensors and

actuators (SDCI)  
IEC/TR 62856:2013  
Documentation on design automation subjects – The  
Bird's-eye View of Design Languages (BVDL)

## 35.080 Softver (programaska podrška)

### Međunarodna normizacija ISO/IEC

ISO/IEC 14496-5:2001/Amd 24:2009/Cor 2:2013  
Information technology – Coding of audio-visual  
objects – Part 5: Reference software – Amendment  
24: Reference software for AAC-ELD; Technical  
Corrigendum 2

ISO/IEC 25064:2013  
Systems and software engineering – Software product  
Quality Requirements and Evaluation (SQuaRE) –  
Common Industry Format (CIF) for usability: User  
needs report

ISO/IEC 26550:2013  
Software and systems engineering – Reference model  
for product line engineering and management

ISO/IEC/IEEE 29119-1:2013  
Software and systems engineering – Software testing  
– Part 1: Concepts and definitions

ISO/IEC/IEEE 29119-2:2013  
Software and systems engineering – Software testing  
– Part 2: Test processes

ISO/IEC/IEEE 29119-3:2013  
Software and systems engineering – Software testing  
– Part 3: Test documentation

ISO/IEC TR 29154:2013  
Software engineering – Guide for the application  
of ISO/IEC 24773:2008 (Certification of software  
engineering professionals – Comparison framework)

### 35.100.10 Fizikalni sloj

#### Europska normizacija CEN

EN 13757-4:2013  
Communication systems for meters and remote  
reading of meters – Part 4: Wireless meter readout  
(Radio meter reading for operation in SRD bands)

### 35.100.20 Sloj veze između podataka

#### Europska normizacija CEN

EN 13757-4:2013  
Communication systems for meters and remote  
reading of meters – Part 4: Wireless meter readout  
(Radio meter reading for operation in SRD bands)

## 35.110 Umrežavanje

### Međunarodna normizacija ISO/IEC

ISO/IEC 29182-4:2013  
Information technology – Sensor networks: Sensor  
Network Reference Architecture (SNRA) – Part 4:  
Entity models

ISO/IEC 29182-5:2013  
Information technology – Sensor networks: Sensor  
Network Reference Architecture (SNRA) – Part 5:  
Interface definitions

IEC 61918:2013  
Industrial communication networks – Installation of  
communication networks in industrial premises

IEC 62056-3-1:2013  
Electricity metering data exchange – The DLMS/  
COSEM suite – Part 3-1: Use of local area networks  
on twisted pair with carrier signalling

IEC 62361-2:2013  
Power systems management and associated  
information exchange – Interoperability in the long  
term – Part 2: End-to-end quality codes for supervisory  
control and data acquisition (SCADA)

IEC 62394:2013  
Service diagnostic interface for consumer electronics  
products and networks – Implementation for ECHONET

IEC 62481-2:2013  
Digital living network alliance (DLNA) home networked  
device interoperability guidelines – Part 2: DLNA media  
formats (TA9)

IEC 62657-2:2013  
Industrial communication networks – Wireless  
communication networks – Part 2: Coexistence  
management

## 35.140 Računalna grafika

### Međunarodna normizacija ISO/IEC

ISO/IEC 9973:2013  
Information technology – Computer graphics, image  
processing and environmental data representation –  
Procedures for registration of items

## 35.160 Mikroprocesorski sustavi

### Međunarodna normizacija IEC

IEC 61784-5-1:2013  
Industrial communication networks – Profiles –  
Part 5-1: Installation of fieldbuses – Installation profiles  
for CPF 1

IEC 61784-5-2:2013  
Industrial communication networks – Profiles –  
Part 5-2: Installation of fieldbuses – Installation profiles  
for CPF 2

IEC 61784-5-3:2013  
Industrial communication networks – Profiles –  
Part 5-3: Installation of fieldbuses – Installation profiles  
for CPF 3

IEC 61784-5-6:2013  
Industrial communication networks – Profiles –  
Part 5-6: Installation of fieldbuses – Installation profiles  
for CPF 6

IEC 61784-5-8:2013  
Industrial communication networks – Profiles –  
Part 5-8: Installation of fieldbuses – Installation profiles  
for CPF 8

IEC 61784-5-11:2013  
Industrial communication networks – Profiles –  
Part 5-11: Installation of fieldbuses – Installation  
profiles for CPF 11

IEC 61784-5-13:2013  
Industrial communication networks – Profiles –  
Part 5-13: Installation of fieldbuses – Installation  
profiles for CPF 13



- IEC 61784-5-14:2013  
Industrial communication networks – Profiles – Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14
- IEC 61784-5-16:2013  
Industrial communication networks – Profiles – Part 5-16: Installation of fieldbuses – Installation profiles for CPF 16
- IEC 61784-5-17:2013  
Industrial communication networks – Profiles – Part 5-17: Installation of fieldbuses – Installation profiles for CPF 17
- IEC 61784-5-18:2013  
Industrial communication networks – Profiles – Part 5-18: Installation of fieldbuses – Installation profiles for CPF 18
- IEC 61784-5-19:2013  
Industrial communication networks – Profiles – Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19
- IEC/TR 62795:2013  
Interoperation guide for field device tool (FDT) / device type manager (DTM) and electronic device description language (EDDL)

### 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

#### Europska normizacija CEN

- CEN ISO/TR 9241-331:2013  
Ergonomics of human-system interaction – Part 331: Optical characteristics of autostereoscopic displays (ISO/TR 9241-331:2012)

### 35.200 Sučelna i spojna oprema

#### Međunarodna normizacija ISO/IEC

- IEC 62680-3:2013  
Universal Serial Bus interfaces for data and power – Part 3: USB Battery Charging Specification, Revision 1.2
- ISO/IEC 24739-3:2010/Corr 1:2013  
Information technology – AT Attachment with Packet Interface – 7 – Part 3: Serial transport protocols and physical interconnect (ATA/ATAPI-7 V3); Technical Corrigendum 1
- IEC 62680-1:2013  
Universal Serial Bus interfaces for data and power – Part 1: Universal Serial Bus Specification, Revision 2.0
- IEC 62680-2:2013  
Universal Serial Bus interfaces for data and power – Part 2: USB Micro-USB Cables and Connectors Specification, Revision 1.01

### 35.240.15 Identifikacijske kartice i pripadajuće naprave

#### Europska normizacija ETSI

- ETSI TS 102705 V 10.1.0:2013  
Smart Cards – UICC Application Programming Interface for Java Card<sup>®</sup> for Contactless Applications (Release 10)
- ETSI TS 102705 V 11.0.0:2013  
Smart Cards – UICC Application Programming

Interface for Java Card<sup>®</sup> for Contactless Applications (Release 11)

- ETSI TS 103383 V 12.2.0:2013  
Smart Cards – Embedded UICC – Requirements Specification (Release 12)

#### Međunarodna normizacija ISO/IEC

- ISO/IEC 10373-3:2010/Cor 1:2013  
Identification cards – Test methods – Part 3: Integrated circuit cards with contacts and related interface devices; Technical Corrigendum 1
- ISO/IEC 10373-6:2011/Cor 1:2013  
Identification cards – Test methods – Part 6: Proximity cards – Technical Corrigendum 1: R2 value range, start of PICC transmission and program for EMD level measurement; Technical Corrigendum 1
- ISO/IEC 12905:2011/Cor 1:2013  
Integrated circuit cards – Enhanced terminal accessibility using cardholder preference interface; Technical Corrigendum 1

### 35.240.50 Primjene IT-a u industriji

#### Europska normizacija CENELEC

- EN 61970-456:2013  
Energy Management System Application Program Interface (EMS-API) – Part 456: Solved power system state profiles (IEC 61970-456:2013)

#### Međunarodna normizacija IEC

- IEC 61131-9:2013  
Programmable Controllers – Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)
- IEC 61784-5-1:2013  
Industrial communication networks – Profiles – Part 5-1: Installation of fieldbuses – Installation profiles for CPF 1
- IEC 61784-5-2:2013  
Industrial communication networks – Profiles – Part 5-2: Installation of fieldbuses – Installation profiles for CPF 2
- IEC 61784-5-3:2013  
Industrial communication networks – Profiles – Part 5-3: Installation of fieldbuses – Installation profiles for CPF 3
- IEC 61784-5-6:2013  
Industrial communication networks – Profiles – Part 5-6: Installation of fieldbuses – Installation profiles for CPF 6
- IEC 61784-5-8:2013  
Industrial communication networks – Profiles – Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8
- IEC 61784-5-11:2013  
Industrial communication networks – Profiles – Part 5-11: Installation of fieldbuses – Installation profiles for CPF 11
- IEC 61784-5-13:2013  
Industrial communication networks – Profiles – Part 5-13: Installation of fieldbuses – Installation

- profiles for CPF 13
- IEC 61784-5-14:2013  
Industrial communication networks – Profiles – Part 5-14: Installation of fieldbuses – Installation profiles for CPF 14
- IEC 61784-5-16:2013  
Industrial communication networks – Profiles – Part 5-16: Installation of fieldbuses – Installation profiles for CPF 16
- IEC 61784-5-17:2013  
Industrial communication networks – Profiles – Part 5-17: Installation of fieldbuses – Installation profiles for CPF 17
- IEC 61784-5-18:2013  
Industrial communication networks – Profiles – Part 5-18: Installation of fieldbuses – Installation profiles for CPF 18
- IEC 61784-5-19:2013  
Industrial communication networks – Profiles – Part 5-19: Installation of fieldbuses – Installation profiles for CPF 19
- IEC 61970-452:2013  
Energy Management System Application Program Interface (EMS-API) – Part 452: CIM static transmission network model profiles
- IEC 62443-3-3:2013  
Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels
- IEC/TR 62795:2013  
Interoperation guide for field device tool (FDT) / device type manager (DTM) and electronic device description language (EDDL)
- IEC/TR 62856:2013  
Documentation on design automation subjects – The Bird's-eye View of Design Languages (BVDL)

### 35.240.60 Primjene IT-a u prijevozu i trgovini

#### Europska normizacija CEN

- CEN ISO/TR 24014-2:2013  
Public transport – Interoperable fare management system – Part 2: Business practices (ISO/TR 24014-2:2013)

#### ETSI

- ETSI TS 101539-1 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – V2X Applications – Part 1: Road Hazard Signalling (RHS) application requirements specification
- ETSI TS 102869-1 V 1.2.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for Decentralized Environmental Notification Messages (DENM) – Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma
- ETSI TS 102869-2 V 1.2.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for Decentralized Environmental Notification Messages (DENM) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 102869-3 V 1.2.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for Decentralized Environmental Notification Messages (DENM) – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

- ETSI TS 102894-1 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – Users and applications requirements – Part 1: Facility layer structure, functional requirements and specifications
- ETSI TS 102894-2 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – Users and applications requirements – Part 2: Applications and facilities layer common data dictionary

#### Međunarodna normizacija ISO

- ISO 15623:2013  
Intelligent transport systems – Forward vehicle collision warning systems – Performance requirements and test procedures
- ISO/TR 24014-2:2013  
Public transport – Interoperable fare management system – Part 2: Business practices

### 35.240.99 Primjene IT-a u ostalim područjima

#### Europska normizacija CEN

- EN ISO 28258:2013  
Soil quality – Digital exchange of soil-related data (ISO 28258:2013)

#### Međunarodna normizacija ISO

- ISO 11783-14:2013  
Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 14: Sequence control
- ISO 28258:2013  
Soil quality – Digital exchange of soil-related data

#### IEC

- IEC 62325-351:2013  
Framework for energy market communications – Part 351: CIM European market model exchange profile

### 37.020 Optička oprema

#### Međunarodna normizacija ISO

- ISO 8255-2:2013  
Microscopes – Cover glasses – Part 2: Quality of materials, standards of finish and mode of packaging
- ISO 10110-12:2007/Amd 1:2013  
Optics and photonics – Preparation of drawings for optical elements and systems – Part 12: Aspheric surfaces; Amendment 1

### 37.040.99 Ostale norme koje se odnose na fotografiju

#### Međunarodna normizacija ISO

- ISO 15740:2013  
Photography – Electronic still picture imaging – Picture transfer protocol (PTP) for digital still photography devices

### 43.020 Cestovna vozila općenito

## Međunarodna normizacija

### ISO

ISO/TR 12350:2013

Road vehicles – Injury risk curves for the evaluation of occupant protection in side impact tests

## 43.040.10 Električna i elektronička oprema

## Međunarodna normizacija

### ISO

ISO 15031-7:2013

Road vehicles – Communication between vehicle and external equipment for emissions-related diagnostics – Part 7: Data link security

ISO 15170-2:2001/Cor 1:2013

Road vehicles – Four-pole electrical connectors with pins and twist lock – Part 2: Tests and requirements; Technical Corrigendum 1

ISO 19072-2:2013

Road vehicles – Connection interface for pyrotechnic devices, two-way and three-way connections – Part 2: Test methods and general performance requirements

## 43.040.70 Spojke

## Međunarodna normizacija

### ISO

ISO 13044-2:2013

Road vehicles – Fully automatic coupling systems 24 V (FACS) for heavy commercial vehicle combinations – Part 2: 50 mm fifth wheel couplings – Electrical and pneumatic interface

## 43.040.99 Ostali sustavi u/na cestovnim vozilima

## Međunarodna normizacija

### ISO

ISO 15623:2013

Intelligent transport systems – Forward vehicle collision warning systems – Performance requirements and test procedures

## 43.060.10 Blok motora i unutarnji sastavni dijelovi

## Međunarodna normizacija

### ISO

ISO 6621-5:2013

Internal combustion engines – Piston rings – Part 5: Quality requirements

ISO 6626-2:2013

Internal combustion engines – Piston rings – Part 2: Coil-spring-loaded oil control rings of narrow width made of cast iron

ISO 18669-1:2013

Internal combustion engines – Piston pins – Part 1: General specifications

## 45.060.01 Željeznička tračnička vozila općenito

## Europska normizacija

### CEN

EN ISO 3095:2013

Acoustics – Railway applications – Measurement of noise emitted by railbound vehicles (ISO 3095:2013)

## CENELEC

EN 50388:2012/AC:2013

Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability

## Međunarodna normizacija

### ISO

ISO 3095:2013

Acoustics – Railway applications – Measurement of noise emitted by railbound vehicles

### IEC

IEC 61881-3:2012/am1:2013

Railway applications – Rolling stock equipment – Capacitors for power electronics – Part 3: Electric double-layer capacitors

IEC 61881-3 Edition 1.1:2013

Railway applications – Rolling stock equipment – Capacitors for power electronics – Part 3: Electric double-layer capacitors

IEC 62625-1:2013

Electronic railway equipment – On board driving data recording system – Part 1: System specification

## 45.060.10 Vučna vozila

## Međunarodna normizacija

### IEC

IEC 60494-1:2013

Rolling stock – Pantographs – Characteristics and tests – Part 1: Pantographs for main line vehicles

IEC 60494-2:2013

Rolling stock – Pantographs – Characteristics and tests – Part 2: Pantographs for metros and light rail vehicles

## 45.060.20 Vozila za tegljenje

## Europska normizacija

### CEN

EN 16116-1:2013

Railway applications – Design requirements for steps, handrails and associated access for staff – Part 1: Passenger vehicles, luggage vans and locomotives

EN 16116-2:2013

Railway applications – Design requirements for steps, handrails and associated access for staff – Part 2: Freight wagons

## 47.020.30 Cjevovodni sustavi

## Europska normizacija

### CEN

EN ISO 10088:2013

Small craft – Permanently installed fuel systems (ISO 10088:2013)

## Međunarodna normizacija

### ISO

ISO 10088:2013

Small craft – Permanently installed fuel systems

## 47.020.40 Oprema za dizanje i rukovanje teretom

## Europska normizacija

### CEN

EN 13852-1:2013  
Cranes – Offshore cranes – Part 1: General-purpose offshore cranes

## 47.060 Plovila za unutrašnji promet

## Međunarodna normizacija

### ISO

ISO 18421:2013  
Ships and marine technology – Inland navigation vessels – Lifebuoy housings

## 47.080 Mala plovila

## Europska normizacija

### CEN

EN ISO 10088:2013  
Small craft – Permanently installed fuel systems (ISO 10088:2013)

## Međunarodna normizacija

### ISO

ISO 10088:2013  
Small craft – Permanently installed fuel systems

## 49.025.20 Aluminij

## Europska normizacija

### CEN

EN 3983:2013  
Aerospace series – Aluminium alloy AL-P7050 – T7651 – Plate – 6 mm < a <= 60 mm

## 49.025.40 Guma i plastika

## Europska normizacija

### CEN

EN 2565:2013  
Aerospace series – Preparation of carbon fibre reinforced resin panels for test purposes

EN 2833-005:2013  
Aerospace series – Glass fibre thermosetting preimpregnates – Technical specification – Part 005: Glass fabric/phenolic resin preimpregnate

EN 3783:2013  
Aerospace series – Fibre composite materials – Normalisation of fibre dominated mechanical properties

## 49.025.60 Tekstili

## Europska normizacija

### CEN

EN 4504:2013  
Aerospace series – Non-metallic materials, Textiles – Test method – Determination of flexibility of narrow fabrics

## 49.060 Zrakoplovna električna oprema i

## sustavi

## Europska normizacija

### CEN

EN 3682-001:2013  
Aerospace series – Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous – Part 001: Technical specification

EN 3682-002:2013  
Aerospace series – Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous – Part 002: Specification of performance and contact arrangements

## 49.090 Oprema i instrumenti u zrakoplovu

## Međunarodna normizacija

### IEC

IEC 62396-3:2013  
Process management for avionics – Atmospheric radiation effects – Part 3: System design optimization to accommodate the single event effects (SEE) of atmospheric radiation

IEC 62396-4:2013  
Process management for avionics – Atmospheric radiation effects – Part 4: Design of high voltage aircraft electronics managing potential single event effects

## 49.120 Oprema za rukovanje teretom

## Međunarodna normizacija

### ISO

ISO 14186:2013  
Air cargo – Fire containment covers – Design, performance and testing requirements

## 49.140 Svemirski sustavi i operacije

## Međunarodna normizacija

### ISO

ISO 14222:2013  
Space environment (natural and artificial) – Earth upper atmosphere

## 53.020.20 Dizalice

## Europska normizacija

### CEN

EN 13852-1:2013  
Cranes – Offshore cranes – Part 1: General-purpose offshore cranes

## 53.020.99 Ostala oprema za dizanje

## Međunarodna normizacija

### ISO

ISO 18878:2013  
Mobile elevating work platforms – Operator (driver) training

## 53.060 Industrijski prijevozni sustavi

### Europska normizacija

#### CEN

EN ISO 3691-1:2012/AC:2013

Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks – Technical Corrigendum 1 (ISO 3691-1:2011/Cor 1:2013)

EN ISO 3691-6:2013

Industrial trucks – Safety requirements and verification – Part 6: Burden and personnel carriers (ISO 3691-6:2013)

### Međunarodna normizacija

#### ISO

ISO 3691-1:2011/Cor 1:2013

Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks; Technical Corrigendum 1

ISO 3691-6:2013

Industrial trucks – Safety requirements and verification – Part 6: Burden and personnel carriers

## 53.100 Strojevi za zemljane radove

### Europska normizacija

#### CEN

EN 474-1+A4:2013

Earth-moving machinery – Safety – Part 1: General requirements

## 55.020 Ambalaža, pakiranje i distribucija robe općenito

### Europska normizacija

#### CEN

EN ISO 16495:2013

Packaging – Transport packaging for dangerous goods – Test methods (ISO 16495:2013)

### Međunarodna normizacija

#### ISO

ISO 16495:2013

Packaging – Transport packaging for dangerous goods – Test methods

## 55.100 Boce. Vrčevi. Lonci

### Međunarodna normizacija

#### ISO

ISO 12821:2013

Glass packaging – 26 H 180 crown finish – Dimensions

## 55.180.10 Kontejneri opće namjene

### Međunarodna normizacija

## ISO

ISO 668:2013

Series 1 freight containers – Classification, dimensions and ratings

## 55.180.99 Ostale norme koje se odnose na distribuciju robe

### Europska normizacija

#### CEN

EN ISO 13274:2013

Packaging – Transport packaging for dangerous goods – Plastics compatibility testing for packaging and IBCs (ISO 13274:2013)

### Međunarodna normizacija

#### ISO

ISO 13274:2013

Packaging – Transport packaging for dangerous goods – Plastics compatibility testing for packaging and IBCs

## 59.060.20 Umjetna vlakna

### Europska normizacija

#### CEN

EN ISO 1833-25:2013

Textiles – Quantitative chemical analysis – Part 25: Mixtures of polyester and certain other fibres (method using trichloroacetic acid and chloroform) (ISO 1833-25:2013)

### Međunarodna normizacija

#### ISO

ISO 1833-25:2013

Textiles – Quantitative chemical analysis – Part 25: Mixtures of polyester and certain other fibres (method using trichloroacetic acid and chloroform)

## 59.080.30 Tekstilni proizvodi

### Europska normizacija

#### CEN

EN ISO 13015:2013

Woven fabrics – Distortion – Determination of skew and bow (ISO 13015:2013)

### Međunarodna normizacija

#### ISO

ISO 13015:2013

Woven fabrics – Distortion – Determination of skew and bow

## 59.080.60 Tekstilne podne obloge

### Europska normizacija

#### CEN

EN 14215:2013

Textile floor coverings – Classification of machine-made pile rugs and runners

## 59.080.70 Geotekstili

### Europska normizacija

#### CEN

EN 16416:2013

Geosynthetic clay barriers – Determination of water flux index – Flexible wall permeameter method at constant head

ISO 9912-3:2013

Agricultural irrigation equipment – Filters for microirrigation – Part 3: Automatic flushing strainer-type filters and disc filters

## 59.100.20 Ugljični materijali

### Međunarodna normizacija

#### ISO

ISO 13931:2013

Carbon fibre – Determination of volume resistivity

## 59.140.30 Koža i krzno

### Međunarodna normizacija

#### ISO

ISO 5431:2013

Leather – Wet blue goat skins – Specification

ISO 5432:2013

Leather – Wet blue sheep skins – Specification

ISO 5433:2013

Leather – Bovine wet blue – Specification

## 61.060 Obuća

### Europska normizacija

#### CEN

EN ISO 16187:2013

Footwear and footwear components – Test method to assess antibacterial activity (ISO 16187:2013)

### Međunarodna normizacija

#### ISO

ISO 16187:2013

Footwear and footwear components – Test method to assess antibacterial activity

## 65.040.10 Nastambe, instalacije i oprema za stoku

### Međunarodna normizacija

#### IEC

IEC 60335-2-76:2005/Corr.1:2013

Household and similar electrical appliances – Safety – Part 2-76: Particular requirements for electric fence energizers; Corrigendum 1

## 65.060.01 Poljoprivredni strojevi i oprema općenito

### Međunarodna normizacija

#### ISO

ISO 11783-14:2013

Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 14: Sequence control

ISO 12140:2013

Agricultural machinery – Agricultural trailers and trailed equipment – Drawbar jacks

## 65.060.35 Oprema za navodnjavanje i isušivanje

### Međunarodna normizacija

#### ISO

## 65.060.70 Oprema za vrtlarstvo

### Europska normizacija

#### CEN

EN ISO 5395-1:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 1: Terminology and common tests (ISO 5395-1:2013)

EN ISO 5395-2:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers (ISO 5395-2:2013)

EN ISO 5395-3:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 3: Ride-on lawnmowers with seated operator (ISO 5395-3:2013)

EN ISO 10517:2009/A1:2013

Powered hand-held hedge trimmers – Safety (ISO 10519:2009/Amd 1:2013)

### Međunarodna normizacija

#### ISO

ISO 5395-1:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 1: Terminology and common tests

ISO 5395-2:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers

ISO 5395-3:2013

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 3: Ride-on lawnmowers with seated operator

ISO 10519:2009/Amd 1:2013

Powered hand-held hedge trimmers – Safety

## 65.080 Gnojiva

### Europska normizacija

#### CEN

EN 16357:2013

Carbonate liming materials – Determination of reactivity – Automatic titration method with citric acid

## 65.120 Hrana za životinje

### Europska normizacija

#### CEN

EN ISO 4833-1:2013

Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique (ISO 4833-1:2013)

EN ISO 4833-2:2013

Microbiology of the food chain – Horizontal method for

the enumeration of microorganisms – Part 2: Colony count at 30 degrees C by the surface plating technique (ISO 4833-2:2013)

## **Međunarodna normizacija ISO**

- ISO 4833-1:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique
- ISO 4833-2:2013  
Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30 degrees C by the surface plating technique

## **65.160 Duhan, duhanski proizvodi i odgovarajuća oprema**

### **Međunarodna normizacija ISO**

- ISO 10362-2:2013  
Cigarettes – Determination of water in smoke condensates – Part 2: Karl Fischer method
- ISO/TR 17219:2013  
Review of human smoking behaviour and recommendations for a new ISO standard for the machine smoking of cigarettes
- ISO 20773:2013  
Cigarettes – Determination of nicotine-free dry particulate matter and nicotine in sidestream smoke – Method using a routine analytical linear smoking machine equipped with a fishtail chimney
- ISO 20774:2013  
Cigarettes – Determination of carbon monoxide in sidestream smoke – Method using a routine analytical linear smoking machine equipped with a fishtail chimney

## **67.060 Žitarice, mahunarke i proizvodi od žitarica i mahunarka**

### **Europska normizacija CEN**

- EN 16378:2013  
Cereals – Determination of impurities content in maize (Zea mays, L.) and sorghum (Sorghum bicolor, L.)

## **67.100.10 Mlijeko i obrađeni mliječni proizvodi**

### **Međunarodna normizacija ISO**

- ISO 9622:2013  
Milk and liquid milk products – Guidelines for the application of mid-infrared spectrometry

## **67.100.30 Sir**

### **Europska normizacija CENELEC**

- EN ISO 5534:2004/AC:2013  
Cheese and processed cheese – Determination of the

total solids content (Reference method) – Technical Corrigendum 1 (ISO 5534:2004/Cor 1:2013)

## **67.180.20 Škrob i proizvodi od škroba**

### **Međunarodna normizacija ISO**

- ISO 5379:2013  
Starches and derived products – Determination of sulfur dioxide content – Acidimetric method and nephelometric method
- ISO 10504:2013  
Starch derivatives – Determination of the composition of glucose syrups, fructose syrups and hydrogenated glucose syrups – Method using high-performance liquid chromatography

## **71.040.40 Kemijska analiza**

### **Međunarodna normizacija IEC**

- IEC 61207-7:2013  
Expression of performance of gas analyzers – Part 7: Tuneable semiconductor laser gas analyzers

## **71.100.10 Materijali za proizvodnju aluminija**

### **Međunarodna normizacija ISO**

- ISO 2926:2013  
Aluminium oxide used for the production of primary aluminium – Particle size analysis for the range 45 m to 150 m – Method using electroformed sieves

## **71.100.60 Eterična ulja**

### **Međunarodna normizacija ISO**

- ISO 4716:2013  
Essential oil of vetiver [Chrysopogon zizanioides (L.) Roberty, syn. Vetiveria zizanioides (L.) Nash]

## **71.100.70 Kozmetika. Toaletne potrepštine**

### **Europska normizacija CEN**

- CEN ISO/TR 24475:2013  
Cosmetics – Good Manufacturing Practices – General training document (ISO/TR 24475:2010)
- EN ISO 28888:2013  
Dentistry – Screening method for erosion potential of oral rinses on dental hard tissues (ISO 28888:2013)

## **71.100.80 Kemikalije za pročišćivanje vode**

### **Europska normizacija CEN**

- EN 16370:2013  
Chemicals used for treatment of water intended for

human consumption – Sodium chloride for on site electrochlorination using membrane cells

## 73.040 Ugljen

### Međunarodna normizacija ISO

- ISO 23380:2013  
Selection of methods for the determination of trace elements in coal
- ISO 23499:2013  
Coal – Determination of bulk density for the use in charging of coke ovens

## 73.060.10 Željezove rude

### Međunarodna normizacija ISO

- ISO 17992:2013  
Iron ores – Determination of arsenic content – Hydride generation atomic absorption spectrometric method

## 75.160.20 Tekuća goriva

### Europska normizacija CEN

- EN 14274:2013/AC:2013  
Automotive fuels – Assessment of petrol and diesel quality – Fuel quality monitoring system (FQMS)
- EN 15721:2013  
Ethanol as a blending component for petrol – Determination of higher alcohols, methanol and other impurities – Gas chromatographic method
- EN 590:2013  
Automotive fuels – Diesel – Requirements and test methods
- EN 15779:2009+A1:2013  
Petroleum products and fat and oil derivatives – Fatty acid methyl esters (FAME) for diesel engines – Determination of polyunsaturated ( $\geq 4$  double bonds) fatty acid methyl esters (PUFA) by gas chromatography
- CEN/TR 16557:2013  
Automotive fuels – High FAME diesel fuel blends (B11 – B30) – Background to the parameters required and their respective limits and determination

### Međunarodna normizacija ISO

- ISO 4261:2013  
Petroleum products – Fuels (class F) – Specifications of gas turbine fuels for industrial and marine applications

## 75.160.30 Plinovita goriva

### Međunarodna normizacija ISO

- ISO 9162:2013  
Petroleum products – Fuels (class F) – Liquefied petroleum gases – Specifications

## 75.180.10 Oprema za iskorištavanje i vađenje

### Europska normizacija CEN

- EN ISO 19902:2007/A1:2013  
Petroleum and natural gas industries – Fixed steel offshore structures (ISO 19902:2007/Amd 1:2013)
- CEN ISO/TR 13624-2:2013  
Petroleum and natural gas industries – Drilling and production equipment – Part 2: Deepwater drilling riser methodologies, operations, and integrity technical report (ISO/TR 13624-2:2009)

### Međunarodna normizacija ISO

- ISO 19902:2007/Amd 1:2013  
Petroleum and natural gas industries – Fixed steel offshore structures; Amendment 1

## 75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom

### Europska normizacija CEN

- EN 1594:2013  
Gas infrastructure – Pipelines for maximum operating pressure over 16 bar – Functional requirements
- EN 16321-1:2013  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 1: Test methods for the type approval efficiency assessment of petrol vapour recovery systems
- EN 16321-2:2013  
Petrol vapour recovery during refuelling of motor vehicles at service stations – Part 2: Test methods for verification of vapour recovery systems at service stations

## 77.040.10 Mehaničko ispitivanje metala

### Europska normizacija CEN

- EN ISO 18265:2013  
Metallic materials – Conversion of hardness values (ISO 18265:2013)

### Međunarodna normizacija ISO

- ISO 18265:2013  
Metallic materials – Conversion of hardness values
- ISO 20032:2013  
Method for evaluation of tensile properties of metallic superplastic materials
- ISO 22889:2013  
Metallic materials – Method of test for the determination of resistance to stable crack extension using specimens of low constraint

## 77.040.30 Kemijska analiza metala

### Europska normizacija CEN

- EN 10355:2013  
Chemical analysis of ferrous materials – Inductively coupled plasma optical emission spectrometric analysis of unalloyed and low alloyed steels – Determination of Si, Mn, P, Cu, Ni, Cr, Mo and Sn, following dissolution with nitric and sulphuric acids [Routine method]



## **77.040.99 Ostale metode za ispitivanje metala**

### **Međunarodna normizacija ISO**

ISO 4967:2013  
Steel – Determination of content of non-metallic inclusions – Micrographic method using standard diagrams

## **77.060 Korozija metala**

### **Europska normizacija CEN**

EN 15280:2013  
Evaluation of a.c. corrosion likelihood of buried pipelines applicable to cathodically protected pipelines

### **Međunarodna normizacija ISO**

ISO/TR 16335:2013  
Corrosion of metals and alloys – Corrosion tests in artificial atmospheres – Guidelines for selection of accelerated corrosion test for product qualification

## **77.140.50 Proizvodi i poluproizvodi od plosnatog čelika**

### **Europska normizacija CEN**

EN 10149-1:2013  
Hot rolled flat products made of high yield strength steels for cold forming – Part 1: General technical delivery conditions

EN 10149-2:2013  
Hot rolled flat products made of high yield strength steels for cold forming – Part 2: Technical delivery conditions for thermomechanically rolled steels

EN 10149-3:2013  
Hot rolled flat products made of high yield strength steels for cold forming – Part 3: Technical delivery conditions for normalized or normalized rolled steels

EN 10268:2006+A1:2013  
Cold rolled steel flat products with high yield strength for cold forming – Technical delivery conditions

## **77.140.65 Čelična žica, čelična užad i lanci**

### **Međunarodna normizacija ISO**

ISO 16839:2013  
Steel wire ropes – Determination of the transverse rigidity of steel wire ropes under no axial load condition

## **79.040 Drvo, trupci i piljena građa**

### **Međunarodna normizacija ISO**

ISO 24294:2013  
Timber – Round and sawn timber – Vocabulary

## **79.080 Drveni poluproizvodi**

### **Europska normizacija CEN**

EN 14915:2013  
Solid wood panelling and cladding – Characteristics, evaluation of conformity and marking

## **81.060.30 Tehnička keramika**

### **Međunarodna normizacija ISO**

ISO 17095:2013  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for interfacial bond strength of ceramic materials at elevated temperatures

## **81.080 Vatrostalni materijali**

### **Međunarodna normizacija ISO**

ISO 16334:2013  
Monolithic refractory products – Determination of resistance to explosive spalling

## **83.040.10 Lateks i sirova guma**

### **Međunarodna normizacija ISO**

ISO 17278:2013  
Rubber, raw natural – Determination of the gel content of technically specified rubber (TSR)

## **83.080.01 Plastika općenito**

### **Europska normizacija CEN**

EN ISO 4892-3:2013  
Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO 4892-3:2013)

### **Međunarodna normizacija ISO**

ISO 4892-3:2013  
Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps

ISO 4892-4:2013  
Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps

ISO 30021:2013  
Plastics – Burning behaviour – Intermediate-scale fire-resistance testing of fibre-reinforced polymer composites

## **83.100 Pjenasti materijali**

### **Europska normizacija CEN**

EN ISO 5999:2013  
Flexible cellular polymeric materials – Polyurethane

foam for load-bearing applications excluding carpet underlay – Specification (ISO 5999:2013)

**Međunarodna normizacija  
ISO**

ISO 5999:2013  
Flexible cellular polymeric materials – Polyurethane foam for load-bearing applications excluding carpet underlay – Specification

**83.140.50 Brtve**

**Europska normizacija  
CEN**

EN 14241-1:2013  
Chimneys – Elastomeric seals and elastomeric sealants – Material requirements and test methods – Part 1: Seals in flue liners

**83.200 Oprema za industriju gume i  
plastike**

**Međunarodna normizacija  
ISO**

ISO 8404:2013  
Tools for moulding – Angle pins

**85.040 Celuloza**

**Međunarodna normizacija  
ISO**

ISO 10775:2013  
Paper, board and pulps – Determination of cadmium content – Atomic absorption spectrometric method

**85.060 Papir i karton**

**Međunarodna normizacija  
ISO**

ISO 8791-2:2013  
Paper and board – Determination of roughness/smoothness (air leak methods) – Part 2: Bendtsen method  
ISO 10775:2013  
Paper, board and pulps – Determination of cadmium content – Atomic absorption spectrometric method

**85.080.30 Karton**

**Europska normizacija  
CEN**

EN ISO 3037:2013  
Corrugated fibreboard – Determination of edgewise crush resistance (unwaxed edge method) (ISO 3037:2013)

**Međunarodna normizacija  
ISO**

ISO 3037:2013  
Corrugated fibreboard – Determination of edgewise crush resistance (unwaxed edge method)

**87.040 Boje i lakovi**

**Europska normizacija  
CEN**

EN ISO 11997-2:2013  
Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 2: Wet (salt fog)/dry/humidity/UV light (ISO 11997-2:2013)  
EN ISO 15528:2013  
Paints, varnishes and raw materials for paints and varnishes – Sampling (ISO 15528:2013)

**Međunarodna normizacija  
ISO**

ISO 11997-2:2013  
Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 2: Wet (salt fog)/dry/humidity/UV light  
ISO 15528:2013  
Paints, varnishes and raw materials for paints and varnishes – Sampling

**87.060.01 Sastojci boja općenito**

**Europska normizacija  
CEN**

EN ISO 15528:2013  
Paints, varnishes and raw materials for paints and varnishes – Sampling (ISO 15528:2013)

**Međunarodna normizacija  
ISO**

ISO 15528:2013  
Paints, varnishes and raw materials for paints and varnishes – Sampling

**87.100 Oprema za premazivanje bojom**

**Europska normizacija  
CEN**

EN 1953:2013  
Atomising and spraying equipment for coating materials – Safety requirements

**91.010.30 Tehnički aspekti**

**Europska normizacija  
CEN**

EN 1998-3:2005/AC:2013  
Eurocode 8: Design of structures for earthquake resistance – Part 3: Assessment and retrofitting of buildings

**91.040.10 Javne građevine**

**Europska normizacija  
CENELEC**

HD 60364-7-718:2013  
Low-voltage electrical installations – Part 7-718: Requirements for special installations or locations – Communal facilities and workplaces (IEC 60364-7-718:2011)

**91.060.40 Dimnjaci, okna, kanali**

**Europska normizacija  
CEN**

EN 14241-1:2013  
Chimneys – Elastomeric seals and elastomeric sealants – Material requirements and test methods – Part 1: Seals in flue liners

## 91.080.01 Konstrukcije zgrada općenito

### Međunarodna normizacija ISO

ISO 13033:2013  
Bases for design of structures – Loads, forces and other actions – Seismic actions on nonstructural components for building applications

## 91.080.20 Drvene konstrukcije

### Međunarodna normizacija ISO

ISO 16507:2013  
Timber structures – Uniform, concentrated static and concentrated impact loads on wood-based roof and floor panel assemblies – Test methods

## 91.100.01 Građevni materijali općenito

### Europska normizacija CEN

EN ISO 12571:2013  
Hygrothermal performance of building materials and products – Determination of hygroscopic sorption properties (ISO 12571:2013)

### Međunarodna normizacija ISO

ISO 12571:2013  
Hygrothermal performance of building materials and products – Determination of hygroscopic sorption properties

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

CEN/TR 16563:2013  
Principles of the equivalent durability procedure

## 91.100.50 Veziva. Materijali za brtvljenje

### Europska normizacija CEN

EN 16416:2013  
Geosynthetic clay barriers – Determination of water flux index – Flexible wall permeameter method at constant head

## 91.100.60 Materijali za toplinsku i zvučnu izolaciju

### Europska normizacija CEN

EN 15101-1:2013

Thermal insulation products for buildings – In-situ formed loose fill cellulose (LFCI) products – Part 1: Specification for the products before installation

EN 15101-2:2013

Thermal insulation products for buildings – In-situ formed loose fill cellulose (LFCI) products – Part 2: Specification for the installed products

## 91.120.10 Toplinska izolacija

### Međunarodna normizacija ISO

ISO 16343:2013  
Energy performance of buildings – Methods for expressing energy performance and for energy certification of buildings

## 91.120.25 Zaštita od seizmičkih djelovanja i vibracija

### Europska normizacija CEN

EN 1998-3:2005/AC:2013  
Eurocode 8: Design of structures for earthquake resistance – Part 3: Assessment and retrofitting of buildings

### Međunarodna normizacija ISO

ISO 13033:2013  
Bases for design of structures – Loads, forces and other actions – Seismic actions on nonstructural components for building applications

## 91.140.10 Sustavi centralnoga grijanja

### Europska normizacija CEN

EN 834:2013  
Heat cost allocators for the determination of the consumption of room heating radiators – Appliances with electrical energy supply

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Europska normizacija CEN

EN 14511-2:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions

EN 14511-4:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Operating requirements, marking and instructions

EN 14825:2013  
Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling – Testing and rating at part load conditions and calculation of seasonal performance

EN 14511-1:2013  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms, definitions and classification

## CENELEC

EN 60335-2-40/A13:2012/AC:2013  
Household and similar electrical appliances – Safety  
– Part 2-40: Particular requirements for electrical heat  
pumps, air-conditioners and dehumidifiers

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

HD 60364-5-51:2009/A11:2013  
Electrical installations of buildings – Part 5-51:  
Selection and erection of electrical equipment –  
Common rules

HD 60364-7-718:2013  
Low-voltage electrical installations – Part 7-718:  
Requirements for special installations or locations –  
Communal facilities and workplaces  
(IEC 60364-7-718:2011)

### Međunarodna normizacija IEC

IEC 62056-3-1:2013  
Electricity metering data exchange – The DLMS/  
COSEM suite – Part 3-1: Use of local area networks  
on twisted pair with carrier signalling

## 91.140.90 Dizala. Pokretne stube

### Europska normizacija CEN

EN 81-82:2013  
Safety rules for the construction and installation of lifts  
– Existing lifts – Part 82: Rules for the improvement of  
the accessibility of existing lifts for persons including  
persons with disability

EN 12016:2013  
Electromagnetic compatibility – Product family  
standard for lifts, escalators and moving walks –  
Immunity

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Europska normizacija CEN

EN ISO 14688-1:2002/A1:2013  
Geotechnical investigation and testing – Identification  
and classification of soil – Part 1: Identification and  
description – Amendment 1  
(ISO 14688-1:2002/Amd 1:2013)

EN ISO 14688-2:2004/A1:2013  
Geotechnical investigation and testing – Identification  
and classification of soil – Part 2: Principles for a  
classification – Amendment 1  
(ISO 14688-2:2004/Amd 1:2013)

### Međunarodna normizacija ISO

ISO 14688-1:2002/Amd 1:2013  
Geotechnical investigation and testing – Identification  
and classification of soil – Part 1: Identification and  
description; Amendment 1

ISO 14688-2:2004/Amd 1:2013  
Geotechnical investigation and testing – Identification  
and classification of soil – Part 2: Principles for a  
classification; Amendment 1

## 97.030 Kućanski električni uređaji općenito

### Međunarodna normizacija IEC

IEC 60335-2-110:2013  
Household and similar electrical appliances – Safety  
– Part 2-110: Particular requirements for commercial  
microwave appliances with insertion or contacting  
applicators

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Europska normizacija CENELEC

EN 60335-2-15/A11:2012/AC:2013  
Household and similar electrical appliances – Safety  
– Part 2-15: Particular requirements for appliances for  
heating liquids

### Međunarodna normizacija IEC

IEC 60350-1:2011/Corr.2:2013  
Household electric cooking appliances – Part 1:  
Ranges, ovens, steam ovens and grills – Methods for  
measuring performance; Corrigendum 2

## 97.040.50 Mali kuhinjski uređaji

### Europska normizacija CENELEC

EN 60335-2-14/A11:2012/AC:2013  
Household and similar electrical appliances – Safety –  
Part 2-14: Particular requirements for kitchen machines

EN 60335-2-15/A11:2012/AC:2013  
Household and similar electrical appliances – Safety  
– Part 2-15: Particular requirements for appliances for  
heating liquids

## 97.140 Namještaj

### Europska normizacija CEN

EN 16121:2013  
Non-domestic storage furniture – Requirements for  
safety, strength, durability and stability

## 97.150 Netekstilni podni prekrivači

### Europska normizacija CEN

EN 14877:2013  
Synthetic surfaces for outdoor sports areas –  
Specification

## 97.190 Oprema za djecu

### Europska normizacija CEN

EN 12221-1+A1:2013

Child use and care articles – Changing units for domestic use – Part 1: Safety requirements

EN 12221-2+A1:2013

Child use and care articles – Changing units for domestic use – Part 2: Test methods

EN 14960:2013

Inflatable play equipment – Safety requirements and test methods

EN 16232:2013

Child use and care articles – Infant swings

## **97.200.50 Igračke**

### **Europska normizacija**

#### **CEN**

EN 14960:2013

Inflatable play equipment – Safety requirements and test methods

EN 71-1+A2:2013

Safety of toys – Part 1: Mechanical and physical properties

## **97.220.10 Sportski objekti**

### **Europska normizacija**

#### **CEN**

EN 12228:2013

Surfaces for sports areas – Determination of joint strength of synthetic surfacesž

EN 12234:2013

Surfaces for sports areas – Determination of ball roll behaviour

EN 12235:2013

Surfaces for sports areas – Determination of vertical ball behaviour

EN 12616:2013

Surfaces for sports areas – Determination of water infiltration rate

EN 13451-3+A1:2013

Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features

EN 14877:2013

Synthetic surfaces for outdoor sports areas – Specification

EN 15330-1:2013

Surfaces for sports areas – Synthetic turf and needle-punched surfaces primarily designed for outdoor use – Part 1: Specification for synthetic turf surfaces for football, hockey, rugby union training, tennis and multi-sports use

## **97.220.30 Oprema za sportske dvorane**

### **Europska normizacija**

#### **CEN**

EN ISO 20957-1:2013

Stationary training equipment – Part 1: General safety requirements and test methods (ISO 20957-1:2013)

### **Međunarodna normizacija**

#### **ISO**

ISO 20957-1:2013

Stationary training equipment – Part 1: General safety requirements and test methods