

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

5/2017 svibanj, 2017.

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 nacрте hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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## 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.

### HZN/TO 22, Cestovna vozila

- HRN EN ISO 12617:2017 en pr  
Cestovna vozila – Priključak za punjenje ukapljenim prirodnim plinom (UPP) – Priključak za 3,1 MPa (ISO 12617:2015, ispravljena verzija 2016-01-15; EN ISO 12617:2017)  
Road vehicles – Liquefied natural gas (LNG) refuelling connector – 3,1 MPa connector (ISO 12617:2015, Corrected version 2016-01-15; EN ISO 12617:2017)

### HZN/TO 25, Ljevarstvo

- HRN EN 10222-1:2017 en pr  
Čelični otkivci za tlačne namjene – 1. dio: Opći zahtjevi za slobodno kovane otkivke (EN 10222-1:2017)  
Steel forgings for pressure purposes – Part 1: General requirements for open die forgings (EN 10222-1:2017)
- HRN EN 10222-2:2017 en pr  
Čelični otkivci za tlačne namjene – 2. dio: Feritni i martenzitni čelici s utvrđenim svojstvima pri povišenim temperaturama (EN 10222-2:2017)  
Steel forgings for pressure purposes – Part 2: Ferritic and martensitic steels with specified elevated temperatures properties (EN 10222-2:2017)
- HRN EN 10222-3:2017 en pr  
Čelični otkivci za tlačne namjene – 3. dio: Čelici legirani niklom s utvrđenim svojstvima pri niskim temperaturama (EN 10222-3:2017)  
Steel forgings for pressure purposes – Part 3: Nickel steels with specified low temperature properties (EN 10222-3:2017)
- HRN EN 10222-4:2017 en pr  
Čelični otkivci za tlačne namjene – 4. dio: Zavarivi sitnozrnati čelici s visokom granicom razvlačenja (EN 10222-4:2017)  
Steel forgings for pressure purposes – Part 4: Weldable fine grain steels with high proof strength (EN 10222-4:2017)
- HRN EN 10222-5:2017 en pr  
Čelični otkivci za tlačne namjene – 5. dio: Martenzitni, austenitni i feritno-austenitni nehrđajući čelici (EN 10222-5:2017)  
Steel forgings for pressure purposes – Part 5: Martensitic, austenitic and austenitic-ferritic stainless steels (EN 10222-5:2017)

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

- HRN EN ISO 6246:2017 en pr  
Naftni proizvodi – Sadržaj smole u gorivima – Metoda isparivanja pomoću mlaznice (ISO 6246:2017; EN ISO 6246:2017)  
Petroleum products – Gum content of fuels – Jet evaporation method (ISO 6246:2017; EN ISO 6246:2017)

### HZN/TO 37, Terminologija

- HRN ISO 18587:2017 en pr  
Usluge pismenog prevođenja – Naknadno uređivanje strojno prevedenog teksta – Zahtjevi (ISO 18587:2017)  
Translation services – Post-editing of machine translation output – Requirements (ISO 18587:2017)

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

- HRN EN ISO 14232-1:2017 en pr  
Toplinsko naštrecavanje – Prašak – 1. dio: Karakterizacija i tehnički uvjeti isporuke (ISO 14232-1:2017; EN ISO 14232-1:2017)  
Thermal spraying – Powders – Part 1: Characterisation and technical supply conditions (ISO 14232-1:2017; EN ISO 14232-1:2017)
- HRN EN ISO 14343:2017 en pr  
Dodatni i potrošni materijali za zavarivanje – Žičane elektrode, trakaste elektrode, žice i šipke za elektrolučno zavarivanje nehrđajućih i vatrootpornih čelika – Razredba (ISO 14343:2017; EN ISO 14343:2017)  
Welding consumables – Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels – Classification (ISO 14343:2017; EN ISO 14343:2017)
- HRN EN ISO 18276:2017 en pr  
Dodatni i potrošni materijali za zavarivanje – Žice punjene praškom za elektrolučno zavarivanje sa zaštitnim plinom i bez zaštitnog plina za čelike povišene čvrstoće – Razredba (ISO 18276:2017; EN ISO 18276:2017)  
Welding consumables – Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high-strength steels – Classification (ISO 18276:2017; EN ISO 18276:2017)

### HZN/TO 46, Bibliotekarstvo, dokumentacija i informacije

- HRN ISO 12029:2017 en pr  
Upravljanje dokumentima – Strojno-čitljivi papirnati medij – Optimalan dizajn za jednostavnu uporabu i elektroničke sustave upravljanja dokumentima (EDMS) (ISO 12029:2010)  
Document management – Machine-readable paper forms – Optimal design for user friendliness and electronic document management systems (EDMS) (ISO 12029:2010)
- HRI ISO/TR 13028:2017 en pr  
Informacije i dokumentacija – Smjernice za provedbu digitalizacije zapisa (ISO/TR 13028:2010)  
Information and documentation – Implementation guidelines for digitization of records (ISO/TR 13028:2010)
- HRN ISO 16175-1:2017 en pr  
Informacije i dokumentacija – Načela i funkcionalni zahtjevi za zapise u elektroničkom uredskom okruženju – 1. dio: Pregled i načela (ISO 16175-1:2010)  
Information and documentation – Principles and functional requirements for records in electronic office environments – Part 1: Overview and statement of principles (ISO 16175-1:2010)
- HRN ISO 16175-2:2017 en pr  
Informacije i dokumentacija – Načela i funkcionalni zahtjevi za zapise u elektroničkom uredskom okruženju – 2. dio: Smjernice i funkcionalni zahtjevi za sustave upravljanja digitalnim dokumentima (ISO 16175-2:2011)  
Information and documentation – Principles and functional requirements for records in electronic office environments – Part 2: Guidelines and functional requirements for digital records management systems (ISO 16175-2:2011)
- HRN ISO 16175-3:2017 en pr  
Informacije i dokumentacija – Načela i funkcionalni zahtjevi za zapise u elektroničkom uredskom okruženju – 3. dio: Smjernice i funkcionalni zahtjevi za zapise u poslovnim sustavima (ISO 16175-3:2010)  
Information and documentation – Principles and functional requirements for records in electronic office environments – Part 3: Guidelines and functional requirements for records in business systems (ISO 16175-3:2010)
- HRN ISO 25577:2017 en pr  
Informacije i dokumentacija – MarcXchange (ISO 25577:2013)  
Information and documentation – MarcXchange (ISO 25577:2013)
- HRN ISO 26324:2017 en pr  
Informacije i dokumentacija – Sustav digitalnog identifikatora objekta (ISO 26324:2012)  
Information and documentation – Digital object identifier system (ISO 26324:2012)
- HRN ISO 27729:2017 en pr  
Informacije i dokumentacija – Međunarodni standardni identifikator imena (ISNI) (ISO 27729:2012+Cor 1:2013)  
Information and documentation – International standard name identifier (ISNI) (ISO 27729:2012+Cor 1:2013)

HRN ISO 27730:2017 en pr  
Informacije i dokumentacija – Međunarodni standardni identifikator zbirki (ISCI) (ISO 27730:2012)  
Information and documentation – International standard collection identifier (ISCI) (ISO 27730:2012)

HRN ISO 28560-1:2017 en pr  
Informacije i dokumentacija – RFID u knjižnicama – 1. dio: Elementi podataka i opće smjernice za provedbu (ISO 28560-1:2014)  
Information and documentation – RFID in libraries – Part 1: Data elements and general guidelines for implementation (ISO 28560-1:2014)

HRN ISO 28560-2:2017 en pr  
Informacije i dokumentacija – RFID u knjižnicama – 2. dio: Kodiranje RFID elemenata podataka na temelju pravila iz norme ISO/IEC 15962 (ISO 28560-2:2014)  
Information and documentation – RFID in libraries – Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962 (ISO 28560-2:2014)

HRN ISO 28560-3:2017 en pr  
Informacije i dokumentacija – RFID u knjižnicama – 3. dio: Kodiranje fiksne dužine (ISO 28560-3:2014)  
Information and documentation – RFID in libraries – Part 3: Fixed length encoding (ISO 28560-3:2014)

HRN ISO 30300:2017 en pr  
Informacije i dokumentacija – Sustavi upravljanja zapisima – Osnove i terminološki rječnik (ISO 30300:2011)  
Information and documentation – Management systems for records – Fundamentals and vocabulary (ISO 30300:2011)

HRN ISO 30301:2017 en pr  
Informacije i dokumentacija – Sustavi upravljanja zapisima – Zahtjevi (ISO 30301:2011)  
Information and documentation – Management systems for records – Requirements (ISO 30301:2011)

#### **HZN/TO 54, Eterična ulja**

HRN ISO 4720:2017 en pr  
Eterična ulja – Nomenklatura (ISO 4720:2009)  
Essential oils – Nomenclature (ISO 4720:2009)

#### **HZN/TO 69, Primjena statističkih metoda**

HRN ISO 21748:2017 en pr  
Upute za uporabu procjena ponovljivosti, obnovljivosti i istinitosti u određivanju mjerne nesigurnosti (ISO 21748:2017)  
Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty evaluation (ISO 21748:2017)

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

HRN EN 451-1:2017 en pr  
Metoda ispitivanja letećeg pepela – 1. dio: Određivanje sadržaja slobodnoga kalcijevog oksida (EN 451-1:2017)  
Method of testing fly ash – Part 1: Determination of free calcium oxide content (EN 451-1:2017)

HRN EN 451-2:2017 en pr  
Metode ispitivanja letećega pepela – 2. dio: Određivanje finoće mokrim sijanjem (EN 451-2:2017)  
Method of testing fly ash – Part 2: Determination of fineness by wet sieving (EN 451-2:2017)

#### **HZN/TO 92, Zaštita od požara**

HRN EN 1366-10:2017 en pr  
Ispitivanja otpornosti na požar servisnih instalacija – 10. dio: Zaklopke za upravljanje dimom (EN 1366-10:2011+A1:2017)  
Fire resistance tests for service installations – Part 10: Smoke control dampers (EN 1366-10:2011+A1:2017)

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

HRN EN ISO 20339:2017 en pr  
Nerazorno ispitivanje – Oprema za ispitivanje vrtložnim strujama – Karakteristike i provjeravanje višepretvorničke fazno upravljane sonde (ISO 20339:2017; EN ISO 20339:2017)  
Non-destructive testing – Equipment for eddy current examination – Array probe characteristics and verification (ISO 20339:2017; EN ISO 20339:2017)

HRN EN ISO 20484:2017 en pr  
Nerazorno ispitivanje – Ispitivanje propusnosti – Terminološki rječnik (ISO 20484:2017; EN ISO 20484:2017)  
Non-destructive testing – Leak testing – Vocabulary (ISO 20484:2017; EN ISO 20484:2017)

#### **HZN/TO 136, Namještaj**

HRN EN 16890:2017 en pr  
Namještaj za djecu – Madraci za dječje krevete i dječje krevetiće – Sigurnosni zahtjevi i metode ispitivanja (EN 16890:2017)  
Children's furniture – Mattresses for cots and cribs – Safety requirements and test methods (EN 16890:2017)

HRN EN 16955:2017 en pr  
Okovi za namještaj – Stožasti tlačni cilindri za samonosive plinske opruge za prilagodbu visine sjedala – Metode ispitivanja i zahtjevi za čvrstoću i trajnost (EN 16955:2017)  
Hardware for furniture – Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating – Test methods and requirements for strength and durability (EN 16955:2017)

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

HRS CEN/TS 12200-2:2017 en pr  
Plastični cijevni sustavi oborinskih voda za nadzemnu uporabu – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 12200-2:2017)  
Plastics rainwater piping systems for above ground external use – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Guidance for the assessment of conformity (CEN/TS 12200-2:2017)

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

HRS CEN/TS 16868:2017 en pr  
Vanjski zrak – Uzorkovanje i analiza polenskih zrnaca i gljivičnih spora u zraku za potrebe mreža koncentracije alergena – Volumetrijska Hirstova metoda (CEN/TS 16868:2015)  
Ambient air – Sampling and analysis of airborne pollen grains and fungal spores for allergy networks – Volumetric Hirst method (CEN/TS 16868:2015)

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

HRN EN ISO 27500:2017 en pr  
Organizacija usmjerena prema čovjeku – Obrazloženje i opća načela (ISO 27500:2016; EN ISO 27500:2017)  
The human-centred organization – Rationale and general principles (ISO 27500:2016; EN ISO 27500:2017)

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

HRN EN 16783:2017 en pr  
Toplinsko-izolacijski proizvodi – Pravila za razvrstavanje proizvoda (PCR), za tvornički proizvedene i na licu mjesta oblikovane proizvode, u svrhu sastavljanja izvjava o zaštiti okoliša (EN 16783:2017)  
Thermal insulation products – Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations (EN 16783:2017)

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

HRN EN ISO 11979-8:2017 en pr  
Oftalmološki implantati – Intraokularne leće – 8. dio: Osnovni zahtjevi (ISO 11979-8:2017; EN ISO 11979-8:2017)  
Ophthalmic implants – Intraocular lenses – Part 8: Fundamental requirements (ISO 11979-8:2017; EN ISO 11979-8:2017)

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

HRN ISO 11107:2017 en pr  
Usluge rekreativnog ronjenja – Zahtjevi za programe buke ronjenja sa nitroxom (ISO 11107:2009)  
Recreational diving services – Requirements for training programmes on enriched air nitrox (EAN) diving (ISO 11107:2009)

HRN ISO 13289:2017 en pr  
Usluge rekreativnog ronjenja – Zahtjevi za vođenje izleta ronjenja na dah (ISO 13289:2011)  
Recreational diving services – Requirements for the conduct of snorkelling excursions (ISO 13289:2011)

- HRS ISO/TS 13811:2017 en pr  
Turističke i srodne usluge – Smjernice za razvoj specifikacija za smještajne kapacitete s obzirom na okoliš (ISO/TS 13811:2015)  
Tourism and related services – Guidelines on developing environmental specifications for accommodation establishments (ISO/TS 13811:2015)
- HRN ISO 13970:2017 en pr  
Usluge rekreativnog ronjenja – Zahtjevi za obuku voditelja rekreativnog ronjenja na dah (ISO 13970:2011)  
Recreational diving services – Requirements for the training of recreational snorkelling guides (ISO 13970:2011)
- HRN ISO 17679:2017 en pr  
Turističke i srodne usluge – Wellness spa – Zahtjevi za usluge (ISO 17679:2016)  
Tourism and related services – Wellness spa – Service requirements (ISO 17679:2016)
- HZN/TO 238, Čvrsta biogoriva**
- HRN EN ISO 18135:2017 en pr  
Čvrsta biogoriva – Uzorkovanje (ISO 18135:2017; EN ISO 18135:2017)  
Solid Biofuels – Sampling (ISO 18135:2017; EN ISO 18135:2017)
- HZN/TO 504, Korozija i zaštita metala i legura**
- HRN EN ISO 9227:2017 en pr  
Ispitivanje korozije u umjetnoj atmosferi – Metoda ispitivanja u slanoj komori (ISO 9227:2017; EN ISO 9227:2017)  
Corrosion tests in artificial atmospheres – Salt spray tests (ISO 9227:2017; EN ISO 9227:2017)
- HZN/TO 524, Inteligentni transportni sustavi**
- HRS CEN/TS 16986:2016/Ispr.1:2017 en pr  
Elektronička naplata – Interoperabilni aplikacijski profil za razmjenu podataka između pružanja usluge i naplate cestarine (CEN/TS 16986:2016/AC:2017)  
Electronic Fee Collection – Interoperable application profiles for information exchange between Service Provision and Toll Charging (CEN/TS 16986:2016/AC:2017)
- HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**
- HRN EN 13967:2017 en pr  
Savitljive hidroizolacijske trake – Plastične i elastomerne trake za zaštitu od vlage i vode iz tla – Definicije i značajke (EN 13967:2012+A1:2017)  
Flexible sheets for waterproofing – Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet – Definitions and characteristics (EN 13967:2012+A1:2017)
- HRN EN 14693:2017 en pr  
Savitljive hidroizolacijske trake – Hidroizolacija betonskih ploča mostova i drugih betonskih površina – Određivanje ponašanja bitumenskih traka pri ugradnji lijevanog asfalta (EN 14693:2017)  
Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of the behaviour of bitumen sheets during application of mastic asphalt (EN 14693:2017)
- HZN/TO 528, Oprema za željeznice**
- HRN EN 13803:2017 en pr  
Željeznički sustav – Željeznički gornji stroj – Parametri za projektiranje geometrije kolosijeka – Širine kolosijeka 1435 mm i veće (EN 13803:2017)  
Railway applications – Track – Track alignment design parameters – Track gauges 1435 mm and wider (EN 13803:2017)
- HRN EN 15273-1:2016/Ispr.1:2017 en pr  
Željeznički sustav – Profili – 1. dio: Općenito – Zajednička pravila za infrastrukturu i željeznička vozila (EN 15273-1:2013+A1:2016/AC:2017)  
Railway applications – Gauges – Part 1: General – Common rules for infrastructure and rolling stock (EN 15273-1:2013+A1:2016/AC:2017)
- HRN EN 16586-1:2017 en pr  
Željeznički sustav – Oblikovanja namijenjena osobama smanjene pokretljivosti – Dostupnost željezničkih vozila osobama smanjene pokretljivosti – 1. dio: Stube za ulazak i izlazak (EN 16586-1:2017)  
Railway applications – Design for PRM use – Accessibility of persons with reduced mobility to rolling stock – Part 1: Steps for access and egress (EN 16586-1:2017)
- HRN EN 16586-2:2017 en pr  
Željeznički sustav – Oblikovanja namijenjena osobama smanjene pokretljivosti – Dostupnost željezničkih vozila osobama smanjene pokretljivosti – 2. dio: Pomoćna sredstva za ukrcaj (EN 16586-2:2017)  
Railway applications – Design for PRM use – Accessibility of persons with reduced mobility to rolling stock – Part 2: Boarding aids (EN 16586-2:2017)
- HRI ČEN/TR 16891:2017 en pr  
Željeznički sustav – Akustika – Metoda mjerenja za kombiniranu hrapavost, stupnjeve dotrajlosti željezničkoga gornjeg stroja i prijenosne funkcije (CEN/TR 16891:2016)  
Railway applications – Acoustics – Measurement method for combined roughness, track decay rates and transfer functions (CEN/TR 16891:2016)
- HRI ČEN/TR 16978:2017 en pr  
Željeznički sustav – Infrastruktura – Pregledi pojedinačnih nedostataka (CEN/TR 16978:2016)  
Railway applications – Infrastructure – Survey on isolated defects (CEN/TR 16978:2016)
- HZN/TO 529, Granici, dizalice i prenosila neprekidne dobave**
- HRN ISO 4302:2017 en pr  
Granici – Opterećenje vjetrom (ISO 4302:2016)  
Cranes – Wind load assessment (ISO 4302:2016)
- HRN ISO 4306-3:2017 en pr  
Granici – Rječnik – 3 dio: Toranjni granici (ISO 4306-3:2016)  
Cranes – Vocabulary – Part 3: Tower cranes (ISO 4306-3:2016)
- HZN/TO 531, Plastika i guma**
- HRN EN ISO 15023-1:2017 en pr  
Plastika – Poli(vinil-alkoholni) (PVAL) materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 15023-1:2017; EN ISO 15023-1:2017)  
Plastics – Poly(vinyl alcohol) (PVAL) materials – Part 1: Designation system and basis for specifications (ISO 15023-1:2017; EN ISO 15023-1:2017)
- HRN EN ISO 16396-2:2017 en pr  
Plastika – Poliamidni (PA) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 16396-2:2017; EN ISO 16396-2:2017)  
Plastics – Polyamide (PA) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 16396-2:2017; EN ISO 16396-2:2017)
- HRN EN ISO 20028-1:2017 en pr  
Plastika – Plastomerni poliesterski (TP) materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 20028-1:2017; EN ISO 20028-1:2017)  
Plastics – Thermoplastic polyester (TP) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 20028-1:2017; EN ISO 20028-1:2017)
- HRN EN ISO 20028-2:2017 en pr  
Plastika – Plastomerni poliesterski (TP) materijali za injekcijsko prešanje i ekstrudiranje – 2. dio: Priprema ispitnih uzoraka i određivanje svojstava (ISO 20028-2:2017; EN ISO 20028-2:2017)  
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- HZN/TO 533, Kolničke konstrukcije**
- HRN EN ISO 11819-2:2017 en pr  
Akustika – Mjerenje utjecaja površine ceste na buku prometa – 2. dio: Metoda neposredne blizine površine ceste (ISO 11819-2:2017; EN ISO 11819-2:2017)  
Acoustics – Measurement of the influence of road surfaces on traffic noise – Part 2: The close-proximity method (ISO 11819-2:2017; EN ISO 11819-2:2017)



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

- HRN EN 12098-1:2017 en pr  
Energijska svojstva zgrada – Upravljanje sustavima grijanja – 1. dio: Oprema za upravljanje sustavima toplovodnog grijanja – Moduli M3-5,6,7,8 (EN 12098-1:2017)  
Energy Performance of Buildings – Controls for heating systems – Part 1: Control equipment for hot water heating systems – Modules M3-5, 6, 7, 8 (EN 12098-1:2017)
- HRI CEN/TR 12831-2:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna projektnog toplinskog opterećenja – 2. dio: Objašnjenje i obrazloženje norme EN 12831-1, Modul M3-3 (CEN/TR 12831-2:2017)  
Energy performance of buildings – Method for calculation of the design heat load – Part 2: Explanation and justification of EN 12831-1, Module M3-3 (CEN/TR 12831-2:2017)
- HRI CEN/TR 12831-4:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna projektnog toplinskog opterećenja – 4. dio: Objašnjenje i obrazloženje norme EN 12831-3, Moduli M8-2, M8-3 (CEN/TR 12831-4:2017)  
Energy performance of buildings – Method for the calculation of the design heat load – Part 4: Explanation and justification of EN 12831-3, Module M8-2, M8-3 (CEN/TR 12831-4:2017)
- HRN EN 15316-1:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – 1. dio: Izraz za opću i energijsku učinkovitost, Moduli M3-1, M3-4, M3-9, M8-1, M8-4 (EN 15316-1:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 1: General and Energy performance expression, Module M3-1, M3-4, M3-9, M8-1, M8-4 (EN 15316-1:2017)
- HRN EN 15316-2:2017 en pr  
Energijska svojstva zgrade – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – 2. dio: Sustavi predaje topline prostoru (grijanje i hlađenje), Moduli M3-5, M4-5 (EN 15316-2:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 2: Space emission systems (heating and cooling), Module M3-5, M4-5 (EN 15316-2:2017)
- HRN EN 15316-3:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – 3. dio: Sustavi raspodjele u prostoru (PTV, grijanje i hlađenje), Moduli M3-6, M4-6, M8-6 (EN 15316-3:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 3: Space distribution systems (DHW, heating and cooling), Module M3-6, M4-6, M8-6 (EN 15316-3:2017)
- HRN EN 15316-4-2:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-2: Sustavi proizvodnje topline za grijanje prostora, dizalice topline, Moduli M3-8-2, M8-8-2 (EN 15316-4-2:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-2: Space heating generation systems, heat pump systems, Module M3-8-2, M8-8-2 (EN 15316-4-2:2017)
- HRN EN 15316-4-3:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-3: Sustavi proizvodnje topline, sunčani toplinski sustavi i fotonaponski sustavi, Moduli M3-8-3, M8-8-3, M11-8-3 (EN 15316-4-3:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-3: Heat generation systems, thermal solar and photovoltaic systems, Module M3-8-3, M8-8-3, M11-8-3 (EN 15316-4-3:2017)
- HRN EN 15316-4-4:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-4: Sustavi proizvodnje topline, integrirani kogeneracijski sustavi u zgradama, Moduli M8-3-4, M8-8-4, M8-11-4 (EN 15316-4-4:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-4: Heat generation systems, building-integrated cogeneration systems, Module M8-3-4, M8-8-4, M8-11-4 (EN 15316-4-4:2017)
- HRN EN 15316-4-8:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-8: Sustavi proizvodnje topline za grijanje prostora, grijanje zrakom i stropni sustavi grijanja zračenjem, uključujući i peći (lokalno), Moduli M3-8-8 (EN 15316-4-8:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-8: Space heating generation systems, air heating and overhead radiant heating systems, including stoves (local), Module M3-8-8 (EN 15316-4-8:2017)
- HRI CEN/TR 15316-6-10:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-10: Objašnjenje i obrazloženje norme EN 15316-5, Moduli M3-7, M8-7 (CEN/TR 15316-6-10:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-10: Explanation and justification of EN 15316-5, Module M3-7, M8-7 (CEN/TR 15316-6-10:2017)
- HRI CEN/TR 15316-6-1:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 6-1: Objašnjenje i obrazloženje norme EN 15316-1, Moduli M3-1, M3-4, M3-9, M8-1, M8-4 (CEN/TR 15316-6-1:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-1: Explanation and justification of EN 15316-1, Module M3-1, M3-4, M3-9, M8-1, M8-4 (CEN/TR 15316-6-1:2017)
- HRI CEN/TR 15316-6-2:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-2: Objašnjenje i obrazloženje norme EN 15316-2, Moduli M3-5, M4-5 (CEN/TR 15316-6-2:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-2: Explanation and justification of EN 15316-2, Module M3-5, M4-5 (CEN/TR 15316-6-2:2017)
- HRI CEN/TR 15316-6-3:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-3: Objašnjenje i obrazloženje norme EN 15316-3, Moduli M3-6, M4-6, M8-6 (CEN/TR 15316-6-3:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-3: Explanation and justification of 15316-3, Module M3-6, M4-6, M8-6 (CEN/TR 15316-6-3:2017)
- HRI CEN/TR 15316-6-4:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 6-4: Objašnjenje i obrazloženje norme EN 15316-4-1, Moduli M3-8-1, M8-8-1 (CEN/TR 15316-6-4:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-4: Explanation and justification of EN 15316-4-1, Module M3-8-1, M8-8-1 (CEN/TR 15316-6-4:2017)
- HRI CEN/TR 15316-6-5:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-5: Objašnjenje i obrazloženje norme EN 15316-4-2, Modul M3-8 (CEN/TR 15316-6-5:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-5: Explanation and justification of EN 15316-4-2, Module M3-8 (CEN/TR 15316-6-5:2017)
- HRI CEN/TR 15316-6-6:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-6: Objašnjenje i obrazloženje norme EN 15316-4-3, Moduli M3-8-3 M8-8-3 (CEN/TR 15316-6-6:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-6: Explanation and justification of EN 15316-4-3, Module M3-8-3 M8-8-3 (CEN/TR 15316-6-6:2017)
- HRI CEN/TR 15316-6-7:2017 en pr  
Energijska svojstva zgrada – Metoda proračuna energijskih zahtjeva sustava i njegove učinkovitosti – Dio 6-7: Objašnjenje i obrazloženje norme EN 15316-4-4, Moduli M8-3-4, M8-8-4, M8-11-4 (CEN/TR 15316-6-7:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-7: Explanation and justification of EN 15316-4-4, Module M8-3-4, M8-8-4, M8-11-4 (CEN/TR 15316-6-7:2017)

HRI CEN/TR 15316-6-8:2017 en pr  
Energjska svojstva zgrada – Metoda proračuna energjskih zahtjeva sustava i njegove učinkovitosti – Dio 6-8: Objašnjenje i obrazloženje norme EN 15316-4-5 (Daljinsko grijanje i hlađenje), Moduli M3-8-5, M4-8-5, M8-8-5, M11-8-5 (CEN/TR 15316-6-8:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-8: Explanation and justification of EN 15316-4-5 (District heating and cooling), Module M3-8-5, M4-8-5, M8-8-5, M11-8-5 (CEN/TR 15316-6-8:2017)

HRI CEN/TR 15316-6-9:2017 en pr  
Energjska svojstva zgrada – Metoda proračuna energjskih zahtjeva sustava i njegove učinkovitosti – Dio 6-9: Objašnjenje i obrazloženje norme EN 15316-4-8, Modul M3-8-8 (CEN/TR 15316-6-9:2017)  
Energy performance of buildings – Method for calculation of system energy requirements and system efficiencies – Part 6-9: Explanation and justification of EN 15316-4-8, Module M3-8-8 (CEN/TR 15316-6-9:2017)

HRN EN 15378-1:2017 en pr  
Energjska svojstva zgrada – Sustavi grijanja i pripreme potrošne tople vode (PTV) u zgradama – 1. dio: Pregled kotlova, sustava grijanja i PTV-a, Moduli M3-11, M8-11 (EN 15378-1:2017)  
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HRI CEN/TR 15378-2:2017 en pr  
Energjska svojstva zgrada – Sustavi grijanja i pripreme potrošne tople vode (PTV) u zgradama – 2. dio: Objašnjenje i obrazloženje norme EN 15378-1, Moduli M3-11 i M8-11 (CEN/TR 15378-2:2017)  
Energy performance of buildings – Heating systems and DHW in buildings – Part 2: Explanation and justification of EN 15378-1, Module M3-11 and M8-11 (CEN/TR 15378-2:2017)

HRN EN 15378-3:2017 en pr  
Energjska svojstva zgrada – Sustavi grijanja i pripreme potrošne tople vode u zgradama – 3. dio: Izmjerene energjske značajke, Moduli M3-10, M8-10 (EN 15378-3:2017)  
Energy performance of buildings – Heating and DHW systems in buildings – Part 3: Measured energy performance, Module M3-10, M8-10 (EN 15378-3:2017)

HRI CEN/TR 15378-4:2017 en pr  
Energjska svojstva zgrada – Izmjerena svojstva zgrada – Objašnjenje i obrazloženje norme EN 15378-3, Moduli M3-10, M8-10 (CEN/TR 15378-4:2017)  
Energy performance of buildings – Measured energy performance – Part 4: Explanation and justification of EN 15378-3, Module M3-10, M8-10 (CEN/TR 15378-4:2017)

HRI CEN/TR 15459-2:2017 en pr  
Energjska svojstva zgrada – Postupak ekonomske ocjene za energjske sustave u zgradama – 2. dio: Objašnjenje i obrazloženje norme EN 15459-1, Modul M1-14 (CEN/TR 15459-2:2017)  
Energy performance of buildings – Economic evaluation procedure for energy systems in buildings – Part 2: Explanation and justification of EN 15459-1, Module M1-14 (CEN/TR 15459-2:2017)

HRN EN 16946-1:2017 en pr  
Energjska svojstva zgrade – Pregled automatizacije zgrada, nadzora i tehničkog upravljanja zgradama – 1. dio: Modul M10-11 (EN 16946-1:2017)  
Energy Performance of Buildings – Inspection of Automation, Controls and Technical Building Management – Part 1: Module M10-11 (EN 16946-1:2017)

HRN EN 16947-1:2017 en pr  
Energjska svojstva zgrada – Sustav upravljanja zgradama – 1. dio: Modul M10-12 (EN 16947-1:2017)  
Energy Performance of Buildings - Building Management System - Part 1: Module M10-12 (EN 16947-1:2017)

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

HRN EN 16853:2017 en pr  
Očuvanje kulturne baštine – Konzervatorski proces – Odlučivanje, planiranje i primjena (EN 16853:2017)  
Conservation of cultural heritage – Conservation process – Decision making, planning and implementation (EN 16853:2017)

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

HRN EN 15193-1:2017 en pr  
Energetska svojstva zgrade – Energetski zahtjevi za rasvjetu – 1. dio: Specifikacije, Modul M9 (EN 15193-1:2017)  
Energy performance of buildings - Energy requirements for lighting - Part 1: Specifications, Module M9 (EN 15193-1:2017)

## **HZN/TO 552, Društvena odgovornost**

HRN ISO 20400:2017 en pr  
Održiva nabava – Upute (ISO 20400:2017)  
Sustainable procurement – Guidance (ISO 20400:2017)

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

HRN EN 752:2017 en pr  
Odvodni i kanalizacijski sustavi izvan zgrada – Upravljanje kanalizacijskim sustavom (EN 752:2017)  
Drain and sewer systems outside buildings – Sewer system management (EN 752:2017)

## **HZN/TO 557, Zaštitna odjeća**

HRN EN 16689:2017 en pr  
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Protective clothing for firefighters – Performance requirements for protective clothing for technical rescue (EN 16689:2017)

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

HRN EN ISO 5210:2017 en pr  
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Industrial valves – Multi-turn valve actuator attachments (ISO 5210:2017; EN ISO 5210:2017)

HRN EN ISO 5211:2017 en pr  
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Industrial valves – Part-turn actuator attachments (ISO 5211:2017; EN ISO 5211:2017)

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

HRN EN ISO 10297:2014/A1:2017 en pr  
Plinske boce – Ventili boca – Specifikacija i tipno ispitivanje – Amandman 1: Tlačni spremnici i cijevi (ISO 10297:2014/Amd 1:2017; EN ISO 10297:2014/A1:2017)  
Gas cylinders – Cylinder valves – Specification and type testing – Amendment 1: Pressure drums and tubes (ISO 10297:2014/Amd 1:2017; EN ISO 10297:2014/A1:2017)

HRN EN ISO 11114-4:2017 en pr  
Prenosive plinske boce – Kompatibilnost materijala boce i ventila boce s plinskim sadržajem – 4. dio: Metode ispitivanja za odabir čelika otpornih na vodikovu krtoš (ISO 11114-4:2017; EN ISO 11114-4:2017)  
Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 4: Test methods for selecting steels resistant to hydrogen embrittlement (ISO 11114-4:2017; EN ISO 11114-4:2017)

HRN EN 13480-4:2012/A4:2017 en pr  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A4:2017)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A4:2017)

HRN EN 13480-5:2012/A3:2017 en pr  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2012/A3:2017)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2012/A3:2017)

HRN EN 14359:2017 en pr  
Akumulacijski spremnici punjeni plinom za hidraulične pogonske sustave (EN 14359:2017)  
Gas-loaded accumulators for fluid power applications (EN 14359:2017)

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

HRN EN ISO 16093:2017 en pr  
Alatni strojevi – Sigurnost – Strojne pile za rezanje metala (ISO 16093:2017; EN ISO 16093:2017)  
Machine tools – Safety – Sawing machines for cold metal (ISO 16093:2017; EN ISO 16093:2017)

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

HRN ISO 27105:2017 en pr  
Mlijeko i sir – Određivanje sadržaja lizozima bjelanjka kokošjeg jajeta tekućom kromatografijom visokog učinka (ISO 27105:2016)  
Milk and cheese – Determination of hen's egg white lysozyme content by high performance liquid chromatography (ISO 27105:2016)

## HZN/TO 568, *Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom*

HRN EN ISO 10273:2017 en pr  
Mikrobiologija u lancu hrane – Horizontalna metoda za dokazivanje prisutnosti patogene *Yersinia enterocolitica* (ISO 10273:2017; EN ISO 10273:2017)  
Microbiology of the food chain – Horizontal method for the detection of pathogenic *Yersinia enterocolitica* (ISO 10273:2017; EN ISO 10273:2017)

HRN EN ISO 16654:2003/A1:2017 en pr  
Mikrobiologija hrane i stočne hrane – Horizontalna metoda za dokazivanje prisutnosti *Escherichia coli* O157 – Amandman 1: Dodatak B: Rezultat međulaboratorijskih istraživanja (ISO 16654:2001/Amd 1:2017; EN ISO 16654:2001/A1:2017)  
Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Escherichia coli* O157 – Amendment 1: Annex B: Result of interlaboratory studies (ISO 16654:2001/Amd 1:2017; EN ISO 16654:2001/A1:2017)

HRN EN 16857:2017 en pr  
Hrana – Određivanje benzena u bezalkoholnim pićima, ostalim pićima i hrani za dojenčad na bazi povrća headspace plinskom kromatografijom i spektrometrijom masa (HS-GC-MS) (EN 16857:2017)  
Foodstuffs – Determination of benzene in soft drinks, other beverages and vegetable-based infant foods by headspace gas chromatography mass spectrometry (HS-GC-MS) (EN 16857:2017)

HRN EN ISO 22964:2017 en pr  
Mikrobiologija u lancu hrane – Horizontalne metode za dokazivanje prisutnosti *Cronobacter* spp. (ISO 22964:2017; EN ISO 22964:2017)  
Microbiology in the food chain – Horizontal method for the detection of *Cronobacter* spp. (ISO 22964:2017; EN ISO 22964:2017)

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

HRN EN 62924:2017 en pr  
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Railway applications – Fixed installations – Stationary energy storage system for DC traction systems (IEC 62924:2017; EN 62924:2017)

## HZN/TO E22, *Energetska elektronika*

HRN EN 61800-5-1:2008/A1:2017 en pr  
Elektromotorni sustavi prilagodljive brzine – Dio 5-1: Zahtjevi na sigurnost – Električni, toplinski i energetski (IEC 61800-5-1:2007/am1:2016; EN 61800-5-1:2007/A1:2017)  
Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy (IEC 61800-5-1:2007/am1:2016; EN 61800-5-1:2007/A1:2017)

HRN EN 61800-5-2:2017 en pr  
Elektromotorni sustavi prilagodljive brzine – Dio 5-2: Zahtjevi za sigurnost – Funkcionalni (IEC 61800-5-2:2016; EN 61800-5-2:2017)  
Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2016; EN 61800-5-2:2017)

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

HRN EN 61242:2002/A13:2017 en pr  
Električni pribor – Namatalice kabela za kućanstvo i slične svrhe (EN 61242:1997/A13:2017)  
Electrical accessories – Cable reels for household and similar purposes (EN 61242:1997/A13:2017)

HRN EN 61995-1:2010/A1:2017 en pr  
Naprave za priključak svjetiljki za kućanstvo i slične svrhe – 1. dio: Opći zahtjevi (IEC 61995-1:2005/am1:2016; EN 61995-1:2008/A1:2017)  
Devices for the connection of luminaires for household and similar purposes – Part 1: General requirements (IEC 61995-1:2005/am1:2016; EN 61995-1:2008/A1:2017)

HRN EN 62196-2:2017 en pr  
Utikači, utičnice, spojevi i spojnice na vozilima – Kontaktno punjenje električnih vozila – 2. dio: Zahtjevi za usklađenost dimenzija i zamjenjivost za pribor sa šiljcima i kontaktnim cjevčicama za izmjeničnu struju (IEC 62196-2:2016; EN 62196-2:2017)  
Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories (IEC 62196-2:2016; EN 62196-2:2017)

## HZN/TO E31, *Eksplzivne atmosfere*

HRN EN 60079-30-1:2017 en pr  
Eksplzivne atmosfere – Dio 30-1: Električki otporni grijači trasa – Opći i ispitni zahtjevi (IEC/IEEE 60079-30-1:2015; EN 60079-30-1:2017)  
Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements (IEC/IEEE 60079-30-1:2015; EN 60079-30-1:2017)

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

HRN EN 60838-1:2017 en pr  
Raznovrsna grla za žarulje – 1. dio: Opći zahtjevi i ispitivanja (IEC 60838-1:2016; EN 60838-1:2017)  
Miscellaneous lampholders – Part 1: General requirements and tests (IEC 60838-1:2016; EN 60838-1:2017)

HRN EN 60838-2-3:2017 en pr  
Raznovrsna grla za žarulje – Dio 2-3: Posebni zahtjevi – Grla za linearna rasvjetna tijela sa svjetlećim diodama s dva podnoška (IEC 60838-2-3:2016; EN 60838-2-3:2017)  
Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED-lamps (IEC 60838-2-3:2016; EN 60838-2-3:2017)

HRN EN 61347-2-13:2015/A1:2017 en pr  
Predspojne naprave – Dio 2-13: Posebni zahtjevi za elektroničke prigušnice koje se napajaju istosmjernom ili izmjeničnom strujom namijenjene modulima svjetlećih dioda (IEC 61347-2-13:2014/am1:2016; EN 61347-2-13:2014/A1:2017)  
Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (IEC 61347-2-13:2014/am1:2016; EN 61347-2-13:2014/A1:2017)

HRN EN 61347-2-3:2012/A1:2017 en pr  
Predspojne naprave – Dio 2-3: Posebni zahtjevi za elektroničke predspojne naprave koje se napajaju izmjeničnom i/ili istosmjernom strujom namijenjene fluorescentnim izvorima svjetlosti (IEC 61347-2-3:2011/am1:2016; EN 61347-2-3:2011/A1:2017)  
Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps (IEC 61347-2-3:2011/am1:2016; EN 61347-2-3:2011/A1:2017)

HRN EN 62532:2012/A1:2017 en pr  
Indukcijske fluorescentne žarulje – Sigurnosni zahtjevi (IEC 62532:2011/am1:2016; EN 62532:2011/A1:2017)  
Fluorescent induction lamps – Safety specifications (IEC 62532:2011/am1:2016; EN 62532:2011/A1:2017)

## HZN/TO E55, *Žice za namote*

HRN EN 60317-67:2017 en pr  
Specifikacije pojedinih vrsta žica za namote – 67. dio: Polivinil acetatom lakirana profilna aluminijaska žica, razreda 105 (IEC 60317-67:2017; EN 60317-67:2017)  
Specifications for particular types of winding wires – Part 67: Polyvinyl acetal enamelled rectangular aluminium wire, class 105 (IEC 60317-67:2017; EN 60317-67:2017)



HRN EN 60317-68:2017 en pr  
Specifikacije pojedinih vrsta žica za namote – 68. dio: Polivinil acetalom lakirana profilna aluminijska žica, razreda 120 (IEC 60317-68:2017; EN 60317-68:2017)  
Specifications for particular types of winding wires – Part 68: Polyvinyl acetal enamelled rectangular aluminium wire, class 120 (IEC 60317-68:2017; EN 60317-68:2017)

HRN EN 60317-69:2017 en pr  
Specifikacije pojedinih vrsta žica za namote – 68. dio: Poliesterom ili poliesterimidom lakirana, prekrivena poliamid-imidom, profilna aluminijska žica, razreda 220 (IEC 60317-69:2017; EN 60317-69:2017)  
Specifications for particular types of winding wires – Part 69: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular aluminium wire, class 220 (IEC 60317-69:2017; EN 60317-69:2017)

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

HRN EN 61010-2-202:2017 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-202: Posebni zahtjevi za električne aktuatorne ventila (IEC 61010-2-202:2016; EN 61010-2-202:2017)  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-202: Particular requirements for electrically operated valve actuators (IEC 61010-2-202:2016; EN 61010-2-202:2017)

HRN EN 61511-1:2017 en pr  
Funkcionalna sigurnost – Sigurnosni instrumentacijski sustavi za sektor procesne industrije – 1. dio: Okvir, definicije, zahtjevi za sustav, hardver i programiranje aplikacija (IEC 61511-1:2016; EN 61511-1:2017)  
Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming Requirements (IEC 61511-1:2016; EN 61511-1:2017)

HRN EN 61511-2:2017 en pr  
Funkcionalna sigurnost – Sigurnosni instrumentacijski sustavi za sektor procesne industrije – 2. dio: Smjernice za primjenu IEC 61511-1 (IEC 61511-2:2016; EN 61511-2:2017)  
Functional safety – Safety instrumented systems for the process industry sector – Part 2: Guidelines for the application of IEC 61511-1 (IEC 61511-2:2016; EN 61511-2:2017)

HRN EN 61511-3:2017 en pr  
Funkcionalna sigurnost – Sigurnosni instrumentacijski sustavi za sektor procesne industrije – 3. dio: Uputa za određivanje potrebnih razina nepovredivosti sigurnosti (IEC 61511-3:2016; EN 61511-3:2017)  
Functional safety – Safety instrumented systems for the process industry sector – Part 3: Guidance for the determination of the required safety integrity levels (IEC 61511-3:2016; EN 61511-3:2017)

HRN EN 61987-11:2017 en pr  
Mjerenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalogima procesne opreme – 11. dio: Popisi svojstava (LOPs) mjerne opreme za elektroničku izmjenu podataka – Opće strukture (IEC 61987-11:2016; EN 61987-11:2017)  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 11: List of Properties (LOP) of measuring equipment for electronic data exchange – Generic structures (IEC 61987-11:2016; EN 61987-11:2017)

HRN EN 61987-16:2017 en pr  
Mjerenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalogima procesne opreme – 16. dio: Popis svojstava opreme za mjerenje gustoće putem elektroničke razmjene podataka (IEC 61987-16:2016; EN 61987-16:2017)  
Industrial-Process Measurement and Control – Data Structures and Elements in Process Equipment Catalogues – Part 16: List of Properties (LOP) for density measuring equipment for electronic data exchange (IEC 61987-16:2016; EN 61987-16:2017)

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

HRN EN 60051-1:2017 en pr  
Pokazni analogni električni mjerni instrumenti s izravnim djelovanjem i njihov pribor – 1. dio: Definicije i opći zahtjevi zajednički svim dijelovima (IEC 60051-1:2016; EN 60051-1:2017)  
Direct acting indicating analogue electrical measuring instruments and their accessories – Part 1: Definitions and general requirements common to all parts (IEC 60051-1:2016; EN 60051-1:2017)

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

HRN EN 61400-25-6:2017 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 25-6: Komunikacije za nadzor i upravljanje vjetroelektranama – Razredi logičkih čvorova i razredi podataka za praćenje stanja (IEC 61400-25-6:2016; EN 61400-25-6:2017)  
Wind power generation systems – Part 25-6: Communications for monitoring and control of wind power plants – Logical node classes and data classes for condition monitoring (IEC 61400-25-6:2016; EN 61400-25-6:2017)

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

HRN EN 60950-22:2017 en pr  
Oprema informacijske tehnologije – Sigurnost – 22. dio: Oprema koja se postavlja vani (IEC 60950-22:2016; EN 60950-22:2017)  
Information Technology Equipment – Safety – Part 22: Equipment to be installed outdoors (IEC 60950-22:2016; EN 60950-22:2017)

### **HZN/TO E112, Procjena i značajke električnih izolacijskih materijala i sustava**

HRN EN 61857-31:2017 en pr  
Električni izolacijski sustavi – Postupci za procjenu toplinskih svojstava – 31. dio: Primjene sa životnim vijekom od 5000 sati ili manje (IEC 61857-31:2017; EN 61857-31:2017)  
Electrical insulation systems – Procedures for thermal evaluation – Part 31: Applications with a designed life of 5 000 h or less (IEC 61857-31:2017; EN 61857-31:2017)

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

HRN EN 55011:2016/A1:2017 en pr  
Industrijski, znanstveni i medicinski (ISM) radiofrekvencijski uređaji – Značajke radiosmetnja – Granice i mjerne metode (CISPR 11:2015/am1:2016; EN 55011:2016/A1:2017)  
Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement (CISPR 11:2015/am1:2016; EN 55011:2016/A1:2017)

HRN EN 55014-1:2017 en pr  
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 1. dio: Emisija (CISPR 14-1:2016; EN 55014-1:2017)  
Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2016; EN 55014-1:2017)

HRN EN 55016-2-3:2017 en pr  
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 2-3: Metode mjerenja smetnja i otpornosti – Mjerenje zračenih smetnji (CISPR 16-2-3:2016; EN 55016-2-3:2017)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (CISPR 16-2-3:2016; EN 55016-2-3:2017)

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

HRN EN 300 401 V2.1.1:2017 en pr  
Radiodifuzijski sustavi – Digitalna audio radiodifuzija (DAB) prema pokretnim, prijenosnim i nepokretnim prijamnicima (EN 300 401 V2.1.1:2017)  
Radio Broadcasting Systems – Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers (EN 300 401 V2.1.1:2017)

- HRN EN 300 422-1 V2.1.2:2017 en pr  
Bežični mikrofoni – Audio PMSE do 3 GHz – 1. dio: Prijamnici klase A – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 300 422-1 V2.1.2:2017)  
Wireless Microphones – Audio PMSE up to 3 GHz – Part 1: Class A Receivers – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 300 422-1 V2.1.2:2017)
- HRN EN 300 440 V2.1.1:2017 en pr  
Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekvencijskom području od 1 GHz do 40 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 300 440 V2.1.1:2017)  
Short Range Devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 440 V2.1.1:2017)
- HRN EN 300 472 V1.4.1:2017 en pr  
Digitalna videoradiodifuzija (DVB) – Specifikacija za dopremu teleteksta ITU-R sustava B u protoke bita DVB-a (EN 300 472 V1.4.1:2017)  
Digital Video Broadcasting (DVB) – Specification for conveying ITU-R System B Teletext in DVB bitstreams (EN 300 472 V1.4.1:2017)
- HRN EN 301 025 V2.2.1:2017 en pr  
VHF radiotelefonska oprema za opću komunikaciju i pridružena oprema za klasu „D“ digitalnog selektivnoga pozivanja (DSC) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) Direktive 2014/53/EU (EN 301 025 V2.2.1:2017)  
VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU (EN 301 025 V2.2.1:2017)
- HRN EN 301 091-3 V1.1.1:2017 en pr  
Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarski uređaji koji rade u području od 76 GHz do 77 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Primjene sustava za detekciju prepreka na pružno-cestovnim križanjima (EN 301 091-3 V1.1.1:2017)  
Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: Railway/Road Crossings obstacle detection system applications (EN 301 091-3 V1.1.1:2017)
- HRN EN 301 178 V2.2.1:2017 en pr  
Prijenosni radiotelefon vrlo visoke frekvencije (VHF) za pomorsku pokretnu službu u VHF pojasa (samo za primjene koje nisu GMDSS) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 178 V2.2.1:2017)  
Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only) – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 301 178 V2.2.1:2017)
- HRN EN 301 511 V12.5.1:2017 en pr  
Globalni sustav pokretnih komunikacija (GSM) – Oprema pokretnih stanica (MS) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) Direktive 2014/53/EU (EN 301 511 V12.5.1:2017)  
Global System for Mobile communications (GSM) – Mobile Stations (MS) equipment – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 301 511 V12.5.1:2017)
- HRN EN 301 929 V2.1.1:2017 en pr  
VHF odašiljači i prijamnici kao obalne stanice za GMDSS i druge primjene u pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 929 V2.1.1:2017)  
VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 301 929 V2.1.1:2017)
- HRN EN 302 017 V2.1.1:2017 en pr  
Odašiljačka oprema za amplitudno moduliranu (AM) zvučnu radiodifuznu službu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 017 V2.1.1:2017)  
Transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 017 V2.1.1:2017)
- HRN EN 302 018 V2.1.1:2017 en pr  
Odašiljačka oprema za frekvencijski moduliranu (FM) zvučnu radiodifuznu službu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 018 V2.1.1:2017)  
Transmitting equipment for the Frequency Modulated (FM) sound broadcasting service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 018 V2.1.1:2017)
- HRN EN 302 264 V2.1.1:2017 en pr  
Uređaji kratkoga dometa (SRD) – Telematika cestovnog prijevoza i prometa (RTTT) – Radar kratkoga dometa koji radi u frekvencijskom pojasa od 77 GHz do 81 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 264 V2.1.1:2017)  
Short Range Devices – Transport and Traffic Telematics (TTT) – Short Range Radar equipment operating in the 77 GHz to 81 GHz band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 264 V2.1.1:2017)
- HRN EN 302 288 V2.1.1:2017 en pr  
Uređaji kratkoga dometa (SRD) – Cestovni prijevoz i prometna telematika (TTT) – Ultra širokopojasna radarska oprema u frekvencijskom području od 24,25 GHz do 26,65 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 288 V2.1.1:2017)  
Short Range Devices – Transport and Traffic Telematics (TTT) – Ultra-wideband radar equipment operating in the 24,25 GHz to 26,65 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 288 V2.1.1:2017)
- HRN EN 302 480 V2.1.2:2017 en pr  
Sustavi pokretnih komunikacija u zrakoplovu (MCOBA) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 480 V2.1.2:2017)  
Mobile Communication On Board Aircraft (MCOBA) systems – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 480 V2.1.2:2017)
- HRN EN 302 502 V2.1.1:2017 en pr  
Bežični pristupni sustavi (WAS) – 5,8 GHz nepokretni širokopojasni sustavi prijenosa podataka – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 502 V2.1.1:2017)  
Wireless Access Systems (WAS) – 5,8 GHz fixed broadband data transmitting systems – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 302 502 V2.1.1:2017)
- HRN EN 302 574-1 V2.1.1:2017 en pr  
Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za pokretne zemaljske postaje (MES) u frekvencijskim pojasa od 1 980 MHz do 2 010 MHz (smjer zemlja-nebo) i od 2 170 MHz do 2 200 MHz (smjer nebo-zemlja) koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 1. dio: Komplementarna zemaljska komponenta (CGC) za širokopojasne sustave (EN 302 574-1 V2.1.1:2016)  
Satellite Earth Stations and Systems (SES) – Harmonised Standard for Mobile Earth Stations (MES) operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Complementary Ground Component (CGC) for wideband systems (EN 302 574-1 V2.1.1:2016)

- HRN EN 302 574-2 V2.1.1:2017 en pr  
Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za pokretne zemaljske postaje (MES) u frekencijskim pojasima od 1 980 MHz do 2 010 MHz (smjer zemlja-nebo) i od 2 170 MHz do 2 200 MHz (smjer nebo-zemlja) koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. dio: Korisnički uređaji (UE) za širokopojasne sustave (EN 302 574-2 V2.1.1:2016)  
Satellite Earth Stations and Systems (SES) – Harmonised Standard for Mobile Earth Stations (MES) operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: User Equipment (UE) for wideband systems (EN 302 574-2 V2.1.1:2016)
- HRN EN 302 885 V2.2.1:2017 en pr  
Prijenosni radiotelefonski uređaji vrlo visokih frekvencija (VHF) s integriranim ručnim uređajem klase H DCS, koji rade u VHF pojasima namijenjenim pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) direktive 2014/53/EU (EN 302 885 V2.2.1:2017)  
Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU (EN 302 885 V2.2.1:2017)
- HRN EN 302 885 V2.2.2:2017 en pr  
Prijenosni radiotelefonski uređaji vrlo visokih frekvencija (VHF) s integriranim ručnim uređajem klase H DCS, koji rade u VHF pojasima namijenjenim pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) direktive 2014/53/EU (EN 302 885 V2.2.2:2017)  
Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU (EN 302 885 V2.2.2:2017)
- HRN EN 302 885 V2.2.3:2017 en pr  
Prijenosni radiotelefonski uređaji vrlo visokih frekvencija (VHF) s integriranim ručnim uređajem klase H DCS, koji rade u VHF pojasima namijenjenim pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) direktive 2014/53/EU (EN 302 885 V2.2.3:2017)  
Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU (EN 302 885 V2.2.3:2017)
- HRN EN 303 132 V1.1.1:2017 en pr  
Pomorski VHF osobni radio farovi male snage koji primjenjuju digitalno selektivno pozivanje (DSC) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 132 V1.1.1:2017)  
Maritime low power VHF personal locating beacons employing Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 303 132 V1.1.1:2017)
- HRN EN 303 146-4 V1.1.2:2017 en pr  
Rekonfigurabilni radijski sustavi (RRS) – Informacijski modeli i protokoli za mobilni uređaj (MD) – 4. dio: Radijsko programiranje sučelja (RPI) (EN 303 146-4 V1.1.2:2017)  
Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 4: Radio Programming Interface (RPI) (EN 303 146-4 V1.1.2:2017)
- HRN EN 303 204 V2.1.1:2017 en pr  
Umreženi uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekencijskom području od 870 MHz do 876 MHz s razinama snage do 500 mW – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 204 V2.1.1:2016)  
Network Based Short Range Devices (SRD) – Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 303 204 V2.1.1:2016)
- HRN EN 303 340 V1.1.1:2017 en pr  
Digitalni terestrijalni televizijski radiodifuzni prijamnici – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 340 V1.1.1:2016)  
Digital Terrestrial TV Broadcast Receivers – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 303 340 V1.1.1:2016)
- HRN EN 303 354 V1.1.1:2017 en pr  
Pojačala i aktivne antene za TV radiodifuzni prijam u kućnim lokacijama – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 354 V1.1.1:2017)  
Amplifiers and active antennas for TV broadcast reception in domestic premises – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 303 354 V1.1.1:2017)
- HRN EN 303 360 V1.1.1:2017 en pr  
Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarska oprema koja radi u frekencijskom pojasu od 76 GHz do 77 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU – Radari za detekciju prepreke koji se koriste na letjelici s rotorom (EN 303 360 V1.1.1:2017)  
Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Obstacle Detection Radars for Use on Manned Rotorcraft (EN 303 360 V1.1.1:2017)
- HRN EN 303 406 V1.1.1:2017 en pr  
Uređaji kratkoga dometa (SRD) – Oprema društvenih alarma koja radi u frekencijskom području od 25 MHz do 1 000 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 406 V1.1.1:2017)  
Short Range Devices (SRD) – Social Alarms Equipment operating in the frequency range 25 MHz to 1 000 MHz – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (EN 303 406 V1.1.1:2017)
- HRN EN 303 423 V1.1.1:2017 en pr  
Upravljanje okolišem (EE) – Električna i elektronička kućanska i uredska oprema – Mjerenje mrežne potrošnje snage praznoga hoda međusobno povezane opreme – Harmonizirana norma koja obuhvaća mjernu metodu za EC uredbu 1275/2008 nadopunjenu s EU uredbom 801/2013 (EN 303 423 V1.1.1:2017)  
Environmental Engineering (EE) – Electrical and electronic household and office equipment – Measurement of networked standby power consumption of Interconnecting equipment – Harmonised Standard covering the measurement method for EC Regulation 1275/2008 amended by EU Regulation 801/2013 (EN 303 423 V1.1.1:2017)

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

- HRN EN 13200-8:2017 en pr  
Gledališta – 8.dio: Upravljanje sigurnošću (EN 13200-8:2017)  
Spectator facilities – Part 8: Safety Management (EN 13200-8:2017)

## **HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**

- HRN EN ISO 12966-2:2017 en pr  
Životinjske i biljne masti i ulja – Određivanje metilnih estera masnih kiselina plinskom kromatografijom – 2. dio: Priprava metilnih estera masnih kiselina (ISO 12966-2:2017; EN ISO 12966-2:2017)  
Animal and vegetable fats and oils – Gas chromatography of fatty acid methyl esters – Part 2: Preparation of methyl esters of fatty acids (ISO 12966-2:2017; EN ISO 12966-2:2017)
- HRN EN 13523-27:2017 en pr  
Zaštićeni limovi u kolutovima – Metode ispitivanja – 27. dio: Otpornost na vlažne obloge (Cataplasma test) (EN 13523-27:2017)  
Coil coated metals – Test methods – Part 27: Resistance to humid poultice (Cataplasma test) (EN 13523-27:2017)



HRN EN ISO 15302:2017 en pr  
Životinjske i biljne masti i ulja – Određivanje količine benzo(a)pirena metodom reverzno-fazne tekućinske kromatografije visokog učinka (ISO 15302:2017; EN ISO 15302:2017)  
Animal and vegetable fats and oils – Determination of benzo(a)pyrene – Reverse-phase high performance liquid chromatography method (ISO 15302:2017; EN ISO 15302:2017)

HRN EN ISO 16773-4:2017 en pr  
Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 4. dio: Primjeri spektra polimerom prevučenih uzoraka (ISO 16773-4:2017; EN ISO 16773-4:2017)  
Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 4: Examples of spectra of polymer-coated and uncoated specimens (ISO 16773-4:2017; EN ISO 16773-4:2017)

## HZN/TU I2, Strojarstvo 2

HRN EN ISO 15236-3:2017 en pr  
Transportne trake s čeličnom užadi – 3. dio: Posebni sigurnosni zahtjevi za trake za upotrebu u podzemnim instalacijama (ISO 15236-3:2017; EN ISO 15236-3:2017)  
Steel cord conveyor belts – Part 3: Special safety requirements for belts for use in underground installations (ISO 15236-3:2017; EN ISO 15236-3:2017)

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

HRN EN 2285:2017 en pr  
Zrakoplovstvo – Čahure izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2285:2017)  
Aerospace series – Bushes, plain, aluminium alloy, with self-lubricating liner – Dimensions and loads (EN 2285:2017)

HRN EN 2286:2017 en pr  
Zrakoplovstvo – Čahure s prirubnicom izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2286:2017)  
Aerospace series – Bushes, flanged aluminium alloy, with self-lubricating liner – Dimensions and loads (EN 2286:2017)

HRN EN 4810:2017 en pr  
Zrakoplovstvo – Prirubnički spojevi – Brtva s brtvom u obliku slova C od legure nikla na toplinski otpornoj čeličnoj ploči s 3 otvora za pričvršćivanje – Nizovi u inčima (EN 4810:2017)  
Aerospace series – Flange couplings – Gasket seal with nickel alloy C seal on heat resisting steel plate with 3 fastening holes – Inch series (EN 4810:2017)

HRN EN 6075:2017 en pr  
Zrakoplovstvo – Statički brtveni elementi u obliku O-prstena od etilen-propilena, prešani u kalupu, otporni na fosfatni ester (-55 °C do 107 °C) – Nizovi u inčima (EN 6075:2017)  
Aerospace series – Static seal elements O-Ring ethylene-propylene, moulded, phosphate ester resistant (-55 °C to 107 °C) – Inch series (EN 6075:2017)

HRN EN 6076:2017 en pr  
Zrakoplovstvo – Statički brtveni elementi u obliku O-prstena za ravni vijčani nastavak s navojem, od etilen-propilena, prešani u kalupu, otporni na fosfatni ester (-55 °C do 107 °C) – Nizovi u inčima (EN 6076:2017)  
Aerospace series – Static seal elements O-Ring straight thread tube fitting boss, ethylene-propylene, moulded, phosphate ester resistant (-55 °C to 107 °C) – Inch series (EN 6076:2017)

## HZN/TU U1, Opća elektrotehnika 1

HRN EN 60404-8-6:2017 en pr  
Magnetski materijali – Dio 8-6: Specifikacije za pojedinačne materijale – Mekani magnetski metalni materijali (IEC 60404-8-6:2016; EN 60404-8-6:2017)  
Magnetic materials – Part 8-6: Specifications for individual materials – Soft magnetic metallic materials (IEC 60404-8-6:2016; EN 60404-8-6:2017)

## HZN/TU V1, Elektronika 1

HRN EN 60444-8:2017 en pr  
Measurement of quartz crystal unit parameters – Part 8: Test fixture for surface mounted quartz crystal units (IEC 60444-8:2016; EN 60444-8:2017)

HRN EN 60793-1-1:2017 en pr  
Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance (IEC 60793-1-1:2017; EN 60793-1-1:2017)

HRN EN 61010-2-011:2017 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-011: Posebni zahtjevi za rashladnu opremu (IEC 61010-2-011:2016; EN 61010-2-011:2017)  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-011: Particular requirements for refrigerating equipment (IEC 61010-2-011:2016; EN 61010-2-011:2017)

HRN EN 61010-2-020:2017 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-020: Posebni zahtjevi za laboratorijske centrifuge (IEC 61010-2-020:2016; EN 61010-2-020:2017)  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-020: Particular requirements for laboratory centrifuges (IEC 61010-2-020:2016; EN 61010-2-020:2017)

HRN EN 61215-1-2:2017 en pr  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules (IEC 61215-1-2:2016; EN 61215-1-2:2017)

HRN EN 61215-1-3:2017 en pr  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules (IEC 61215-1-3:2016; EN 61215-1-3:2017)

HRN EN 61215-1-4:2017 en pr  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)<sub>2</sub> based photovoltaic (PV) modules (IEC 61215-1-4:2016; EN 61215-1-4:2017)

HRN EN 61587-1:2017 en pr  
Mechanical structures for electronic equipment – Tests for IEC 60917 and IEC 60297 series – Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor condition use and transportation (IEC 61587-1:2016; EN 61587-1:2017)

HRN EN 62211:2017 en pr  
Inductive components – Reliability management (IEC 62211:2017; EN 62211:2017)

HRN EN 62435-1:2017 en pr  
Electronic components – Long-term storage of electronic semiconductor devices – Part 1: General (IEC 62435-1:2017; EN 62435-1:2017)

HRN EN 62435-2:2017 en pr  
Electronic components – Long-term storage of electronic semiconductor devices – Part 2: Deterioration Mechanisms (IEC 62435-2:2017; EN 62435-2:2017)

HRN EN 62788-1-6:2017 en pr  
Measurement procedures for materials used in photovoltaic modules – Part 1-6: Encapsulants – Test methods for determining the degree of cure in Ethylene-Vinyl Acetate (IEC 62788-1-6:2017; EN 62788-1-6:2017)

HRN EN 62925:2017 en pr  
Thermal cycling test for CPV modules to differentiate increased thermal fatigue durability (IEC 62925:2016; EN 62925:2017)

HRN EN 63044-1:2017 en pr  
Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 1: General requirements (IEC 63044-1:2017; EN 63044-1:2017)

## HZN/TU W1, Energetska elektrotehnika 1

HRN EN 60623:2017 en pr  
Sekundarne ćelije i akumulatori koje sadrže alkalne ili druge nekiselinske elektrolite – Provjetravane nikal-kadmij prizmatične, ponovo punjive, jednostruke ćelije (IEC 60623:2017; EN 60623:2017)  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells (IEC 60623:2017; EN 60623:2017)



HRN EN 62281:2017 en pr  
Sigurnost primarnih i sekundarnih litijevih članaka i baterija  
tijekom transporta (IEC 62281:2016; EN 62281:2017)  
Safety of primary and secondary lithium cells and batteries  
during transport (IEC 62281:2016; EN 62281:2017)

## 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 nacrti hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrti hrvatske norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

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

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

nHRN 1152 hr izv  
Osobna zaštitna oprema protiv pada s visine – Čelične penjalice za betonske stupove za vodove  
Personal protective equipment against falls from height – Climbing irons for concrete poles

## 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).

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

EN 54-22:2015/prA1 en  
Fire detection and fire alarm systems – Part 22: Resettable line-type heat detectors  
Sustavi za otkrivanje i dojavu požara – 22. dio: Linijski detektori topline s mogućnošću promjene postavne vrijednosti

prEN 12259-12 en  
Fixed firefighting systems – Components for sprinkler and water spray systems – Part 12: Pumps  
Stabilni protupožarni sustavi – Dijelovi sustava za prskanje (sprinkler sustava) i sustava raspršene vode – 12. dio: Pumpe

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

prEN ISO 4254-6 en  
Agricultural machinery – Safety – Part 6: Sprayers and liquid fertilizer distributors (ISO/DIS 4254-6:2017)  
Poljoprivredna mehanizacija – Sigurnost – 6. dio: Prskalice i raspodjeljivači tekućih gnojiva (ISO/DIS 4254-6:2017)

prEN ISO 28139 en  
Equipment for crop protection – Knapsack combustion engine-driven air-blast sprayers – Safety and environmental requirements and test methods (ISO/DIS 28139:2017)  
Poljoprivredna i šumarska mehanizacija – Ledno nosivi zamagljivači pokretani motorima s unutrašnjim izgaranjem – Sigurnosni zahtjevi (ISO/DIS 28139:2017)

### HZN/TO 34, *Poljoprivredni i prehrambeni proizvodi*

ISO/FDIS 6658 en  
Sensory analysis – Methodology – General guidance  
Senzorske analize – Metodologija – Opće upute

ISO/FDIS 8588 en  
Sensory analysis – Methodology – “A” - “not A” test  
Senzorske analize – Metodologija “A” - “ne A” test

prEN ISO 22000 en  
Food safety management systems – Requirements for any organization in the food chain (ISO/DIS 22000:2017)  
Sustavi upravljanja sigurnošću hrane – Zahtjevi za svaku organizaciju u lancu hrane (ISO/DIS 22000:2017)

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

prEN 560 en  
Gas welding equipment – Hose connections for equipment for welding, cutting and allied processes  
Oprema za plinsko zavarivanje – Priključci crijeva za opremu za zavarivanje, rezanje i srodne postupke

prEN 1011-3 en  
Welding – Recommendations for welding of metallic materials – Part 3: Arc welding of stainless steels  
Zavarivanje – Preporuke za zavarivanje metalnih materijala – 3. dio: Elektrolučno zavarivanje nehrđajućih čelika

prEN ISO 5173 en  
Destructive tests on welds in metallic materials – Bend tests (ISO/DIS 5173:2017)  
Ispitivanja razaranjem zavara na metalnim materijalima – Ispitivanja savijanjem (ISO/DIS 5173:2017)

prEN ISO 10042 en  
Welding – Arc-welded joints in aluminium and its alloys – Quality levels for imperfections (ISO/DIS 10042:2017)  
Zavarivanje – Elektrolučno zavareni spojevi aluminija i njegovih legura – Razine kvalitete s obzirom na nepravilnosti (ISO/DIS 10042:2017)

prEN ISO 10675-2 en  
Non-destructive testing of welds – Acceptance levels for radiographic testing – Part 2: Aluminium and its alloys (ISO/FDIS 10675-2:2017)  
Nerazorno ispitivanje zavarenih spojeva – Razine prihvatljivosti za radiografsko ispitivanje – 2. dio: Aluminij i njegove legure (ISO/FDIS 10675-2:2017)

prEN ISO 17677-1 en  
Resistance welding – Vocabulary – Part 1: Spot; projection and seam welding (ISO/DIS 17677-1:2017)  
Elektrootporno zavarivanje – Terminološki rječnik – 1. dio: Točkasto, bradavičasto i šavno zavarivanje (ISO/DIS 17677-1:2017)

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

prEN 196-6 en  
Methods of testing cement – Part 6: Determination of fineness  
Metode ispitivanja cementa – 6. dio: Određivanje finoće

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

EN 13136:2013/prA1:2017 en  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation  
Rashladni sustavi i dizalice topline – Uređaji za rasterećenje od tlaka i pripadajući cjevovodi – Metode proračuna

### HZN/TO 120, *Koža i obuća*

prEN ISO 11640 en  
Leather – Tests for colour fastness – Colour fastness to cycles of to-and-fro rubbing (ISO/DIS 11640:2017)  
Koža – Ispitivanja postojanosti obojenja – Postojanost obojenja na cikluse trljanja naprijed-nazad (ISO/DIS 11640:2017)

prEN ISO 17231 en  
Leather – Physical and mechanical tests – Determination of water repellency of garment leather (ISO/FDIS 17231:2017)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje vodoodbojnosti odječe od kože (ISO/FDIS 17231:2017)

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

EN ISO 80601-2-13:2012/prA2 en  
Medical electrical equipment – Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation (ISO 80601-2-13:2011/DAMd 2:2017)  
Medicinski električni uređaji – Dio 2-13: Posebni zahtjevi za osnovnu sigurnost i nužne značajke anestezioloških radnih stanica (ISO 80601-2-13:2011/DAMd 2:2017)

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

ISO/DIS 20702 en  
Determination of microamount of inorganic anions in fertilizers by ion chromatography

## HZN/TO 135, *Nerazorna ispitivanja*

prEN ISO 11699-2 en  
Non-destructive testing – Industrial radiographic films – Part 2: Control of film processing by means of reference values (ISO/DIS 11699-2:2017)  
Nerazorno ispitivanje – Film za industrijsku radiografiju – 2. dio: Provjera kemijske obrade filma pomoću referentnih vrijednosti (ISO/DIS 11699-2:2017)

prEN ISO 19232-5 en  
Non-destructive testing – Image quality of radiographs – Part 5: Determination of the image unsharpness and basic spatial resolution value using duplex wire-type image quality indicators (ISO/DIS 19232-5:2017)

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

prEN ISO 13255 en  
Thermoplastics piping systems for soil and waste discharge inside buildings – Test method for airtightness of joints (ISO 13255:2010)

## HZN/TO 147, *Kvaliteta vode*

prEN ISO 10704 en  
Water quality – Gross alpha and gross beta activity – Test method using thin source deposit (ISO/DIS 10704:2017)  
Kvaliteta vode – Ukupna alfa i ukupna beta aktivnost – Metoda depozicije tankog izvora (ISO/DIS 10704:2017)

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

EN ISO 11348-1:2008/prA1 en  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 1: Method using freshly prepared bacteria (ISO 11348-1:2007/DAMd 1:2017)  
Kvaliteta vode – Određivanje inhibitornog učinka vodenih uzoraka na emisiju svjetla bakterije *Vibrio fischeri* (Test sa svjetlećim bakterijama) – 1. dio: Metoda u kojoj se upotrebljavaju svježe pripremljene bakterije (ISO 11348-1:2007/DAMd 1:2017)

EN ISO 11348-2:2008/prA1 en  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 2: Method using liquid-dried bacteria (ISO 11348-2:2007/DAMd 1:2017)  
Kvaliteta vode – Određivanje inhibitornog učinka vodenih uzoraka na emisiju svjetla bakterije *Vibrio fischeri* (Test sa svjetlećim bakterijama) – 2. dio: Metoda u kojoj se upotrebljavaju dehidrirane bakterije (ISO 11348-2:2007/DAMd 1:2017)

EN ISO 11348-3:2008/prA1 en  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 3: Method using freeze-dried bacteria (ISO 11348-3:2007/DAMd 1:2017)  
Kvaliteta vode – Određivanje inhibitornog učinka vodenih uzoraka na emisiju svjetla bakterije *Vibrio fischeri* (Test sa svjetlećim bakterijama) – 3. dio: Metoda u kojoj se upotrebljavaju liofilizirane bakterije (ISO 11348-3:2007/DAMd 1:2017)

## HZN/TO 159, *Ergonomija*

prEN ISO 20685-1 en  
Ergonomics – 3-D scanning methodologies for internationally compatible anthropometric databases – Part 1: Evaluation protocol for body dimensions extracted from 3-D body scans (ISO/DIS 20685-1:2017)  
Ergonomija – Metode 3-D skeniranja za međunarodno kompatibilne antropometrijske baze podataka – 1. dio: Protokol za evaluaciju dimenzija tijela dobivenih 3-D snimcima tijela (ISO/DIS 20685-1:2017)

prEN ISO 24505 en  
Ergonomics – Accessible design – Method for creating colour combinations taking account of age-related changes in human colour vision (ISO 24505:2016)  
Ergonomija – Dizajn prilagođen osobama s posebnim potrebama – Metoda za stvaranje kombinacija boja uzimajući u obzir promjene u njihovom raspoznavanju povezane sa starenjem (ISO 24505:2016)

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

prEN ISO 13666 en  
Ophthalmic optics – Spectacle lenses – Vocabulary (ISO/DIS 13666:2017)  
Oftalmološka optika – Leće za naočale – Terminološki rječnik (ISO/DIS 13666:2017)

ISO 20711:2017 en  
Optics and photonics – Environmental requirements – Test requirements for telescopic systems  
Optika i fotonika – Zahtjevi s obzirom na okoliš – Zahtjevi za ispitivanje teleskopskih sustava

## HZN/TO 190, *Kvaliteta tla*

prEN ISO 15175 en  
Soil quality – Characterization of contaminated soil related to groundwater protection (ISO/DIS 15175:2017)

## HZN/TO 215, *Medicinska informatika*

prEN ISO 12052 en  
Health informatics – Digital imaging and communication in medicine (DICOM) including workflow and data management (ISO/FDIS 12052:2017)  
Medicinska informatika – Digitalne slike i komunikacija u medicini (DICOM), uključujući hodografe i upravljanje podacima (ISO/FDIS 12052:2017)

prEN ISO 13606-1 en  
Health informatics – Electronic health record communication – Part 1: Reference model (ISO/DIS 13606-1:2017)  
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 1. dio: Referentni model (ISO/DIS 13606-1:2017)

prEN ISO 13606-2 en  
Health informatics – Electronic health record communication – Part 2: Archetype interchange specification (ISO/DIS 13606-2:2017)  
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 2. dio: Specifikacija razmjene prototipova (ISO/DIS 13606-2:2017)

prEN ISO 13606-3 en  
Health informatics – Electronic health record communication – Part 3: Reference archetypes and term lists (ISO/DIS 13606-3:2017)  
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 3. dio: Referentni prototipovi i popisi naziva (ISO/DIS 13606-3:2017)

prEN ISO 13606-4 en  
Health informatics – Electronic health record communication – Part 4: Security (ISO/DIS 13606-4:2017)  
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 4. dio: Sigurnost (ISO/DIS 13606-4:2017)

prEN ISO 13606-5 en  
Health informatics – Electronic health record communication – Part 5: Interface specification (ISO/DIS 13606-5:2017)  
Medicinska informatika – Prijenos elektroničkoga zdravstvenog zapisa – 5. dio: Specifikacija sučelja (ISO/DIS 13606-5:2017)

## HZN/TO 219, *Podne obloge*

EN 1307:2014+A1:2016/prA2 en  
Textile floor coverings – Classification  
Tekstilne podne obloge – Razredba

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

- prEN ISO 24576 en  
Geosynthetic – Test method for determining the resistance of polymeric geosynthetic barriers to environmental stress cracking (ISO/DIS 24576:2017)

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

- prEN ISO 204 en  
Metallic materials – Uniaxial creep testing in tension – Method of test (ISO/DIS 204:2017)  
Metalni materijali – Jednoosno ispitivanje puzanja pri vlačnome naprezanju – Metoda ispitivanja (ISO/DIS 204:2017)

- prEN ISO 4957 en  
Tool steels (ISO/DIS 4957:2017)  
Alatni čelici (ISO/DIS 4957:2017)

- prEN ISO 6149-4 en  
Connections for fluid power and general use – Ports and stud ends with ISO 261 metric threads and O-ring sealing – Part 4: Dimensions, design, test methods and requirements for external hex and internal hex port plugs (ISO/FDIS 6149-4:2017)  
Priključci za hidraulične tekućine za prijenos snage i opću namjenu – Otvori i čepovi s ISO 261 metričkim navojima i brtvljenjem pomoću O-prstena – 4. dio: Dimenzije, konstrukcija, metode ispitivanja i zahtjevi za vanjske i unutrašnje šesterokutne čepove (ISO/FDIS 6149-4:2017)

- prEN ISO 10113 en  
Metallic materials – Sheet and strip – Determination of plastic strain ratio (ISO/DIS 10113:2017)  
Metalni materijali – Lim i traka – Određivanje faktora plastične anizotropije (ISO/DIS 10113:2017)

- prEN ISO 21809-1 en  
Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) (ISO/DIS 21809-1:2017)  
Industrija nafte i zemnog plina – Vanjske prevlake za podzemne ili podvodne cjevovode za upotrebu u cjevovodnim transportnim sustavima – 1. dio: Poliolefinske prevlake (3-slojne PE i 3-slojne PP) (ISO/DIS 21809-1:2017)

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

- prEN ISO 15589-1 en  
Petroleum; petrochemical and natural gas industries – Cathodic protection of pipeline systems – Part 1: On-land pipelines (ISO 15589-1:2015)  
Industrija nafte i prirodnoga plina – Katodna zaštita cjevovodnih transportnih sustava – 1. dio: Cjevovodi na kopnu (ISO 15589-1:2015)

- prEN ISO 18086 en  
Corrosion of metals and alloys – Determination of AC corrosion – Protection criteria (ISO 18086:2015)

- prEN ISO 20728 en  
Corrosion of metal and alloys – Determination of resistance of magnesium alloys to stress corrosion cracking (ISO/DIS 20728:2017)

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

- prEN ISO 18797-1 en  
Petroleum, petrochemical and natural gas industries – External corrosion protection of risers by coatings and linings – Part 1: Elastomeric coating systems-polychloroprene or EPDM (ISO 18797-1:2016)

- prEN ISO 19008 en  
Standard cost coding system for oil and gas production and processing facilities (ISO 19008:2016)

- prEN ISO 19901-9 en  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 9: Structural integrity management (ISO/DIS 19901-9:2017)

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

- prEN ISO 80000-1 en  
Quantities and units – Part 1: General (ISO/DIS 80000-1:2017)  
Veličine i jedinice – 1. dio: Općenito (ISO/DIS 80000-1:2017)

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

- prEN 14904-1 en  
Surfaces for sports areas – Multi-sports floor systems for indoor use – Part 1: Essential characteristics

- prEN 14904-2 en  
Surfaces for sports areas – Multi-sports floor systems for indoor use – Part 2: Specifications

- prEN 14904-3 en  
Surfaces for sports areas – Multi-sports floor systems for indoor use – Part 3: In-situ testing

## **HZN/TO 521, Usluge održavanja**

- prEN ISO 41001 en  
Facility management – Management systems – Requirements with guidance for use (ISO/DIS 41001:2017)

## **HZN/TO 524, Inteligentni transportni sustavi**

- prEN ISO 16407-2 en  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-1 – Part 2: Abstract test suite (ISO/DIS 16407-2:2017)  
Elektronička naplata – Vrednovanje opreme za utvrđivanje sukladnosti s normom ISO 17575-1 – 2. dio: Sažetak ispitnog paketa (ISO/DIS 16407-2:2017)

- prEN ISO 16410-2 en  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-3 – Part 2: Abstract test suite (ISO/DIS 16410-2:2017)  
Elektronička naplata – Vrednovanje opreme za utvrđivanje sukladnosti s normom ISO 17575-3 – 2. dio: Sažetak ispitnog paketa (ISO/DIS 16410-2:2017)

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

- prEN 13707 en  
Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing – Definitions and characteristics  
Savitljive hidroizolacijske trake – Bitumenske hidroizolacijske krovne trake s uloškom – Definicije i značajke

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

- EN 14198:2016/prA1 en  
Railway applications – Braking – Requirements for the brake system of trains hauled by locomotives  
Željeznički sustav – Kočenje – Zahtjevi za sustave kočenja vlakova vučenih lokomotivama

- prEN 15329 en  
Railway applications – Braking – Brake block holder and brake block key  
Željeznički sustav – Kočenje – Nosač kočnih umetaka i klin za kočne umetke

- EN 16185-1:2014/prA1 en  
Railway applications – Braking systems of multiple unit trains – Part 1: Requirements and definitions  
Željeznički sustav – Kočni sustavi višedijelnih vlakova – 1. dio: Zahtjevi i definicije

- EN 16186-1:2014/prA1 en  
Railway applications – Driver's cab – Part 1: Anthropometric data and visibility  
Željeznički sustav – Upravljačnica – 1. dio: Antropometrijski podaci i vidljivost

- EN 16452:2015/prA1:2017 en  
Railway applications – Braking – Brake blocks  
Željeznički sustav – Kočenje – Kočni umeci

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

- prEN ISO 178 en  
Plastics – Determination of flexural properties (ISO/DIS 178:2017)  
Plastika – Određivanje svojih svojstava (ISO/DIS 178:2017)

prEN ISO 14855-2 en

Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions – Method by analysis of evolved carbon dioxide – Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory-scale test (ISO/DIS 14855-2:2017)

Određivanje konačne aerobne biorazgradljivosti plastičnih materijala u kontroliranim uvjetima kompostiranja – Metoda analize nastaloga ugljikovog dioksida – 2. dio: Gravimetrijsko mjerenje nastaloga ugljikovog dioksida u laboratorijskom mjerilu (ISO/DIS 14855-2:2017)

prEN ISO 20753 en

Plastics – Test specimens (ISO/DIS 20753:2017)

Plastika – Ispitni uzorci (ISO/DIS 20753:2017)

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

prEN 13880-7 en

Hot applied joint sealants – Part 7: Function testing of joint sealants

Vruće brtvne mase – 7. dio: Ispitivanje učinkovitosti brtvne mase

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

prEN 16613 en

Glass in building – Laminated glass and laminated safety glass – Determination of interlayer mechanical properties

prEN 16759 en

Bonded Glazing for doors, windows and curtain walling – Verification of mechanical performance of bonding on aluminium and steel surfaces

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

prEN ISO 13567-1 en

Technical product documentation – Organization and naming of layers for CAD – Part 1: Overview and principles (ISO/FDIS 13567-1:2017)

Tehnička dokumentacija proizvoda – Organizacija i imenovanje slojeva za CAD – 1. dio: Pregled i načela (ISO/FDIS 13567-1:2017)

prEN ISO 13567-2 en

Technical product documentation – Organization and naming of layers for CAD – Part 2: Concepts, format and codes used in construction documentation (ISO/FDIS 13567-2:2017)

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

prEN 17126 en

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants in the medical area – Test method and requirements (phase 2, step 1)

Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu sporicidne djelotvornosti u medicini – Metoda ispitivanja i zahtjevi (faza 2, korak 1)

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

prEN 15650 en

Ventilation for buildings – Fire dampers

Ventilacija u zgradama – Protupožarne zaklopke

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

prEN 17114 en

Conservation of cultural heritage – Surface protection for porous inorganic materials – Technical and chemical data sheets of water repellent product

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

prEN ISO 1107 en

Fishing nets – Netting – Basic terms and definitions (ISO/FDIS 1107:2017)

Ribarske mreže – Mrežaste tvorevine – Osnovni nazivi i definicije (ISO/FDIS 1107:2017)

prEN 17117-1 en

Rubber or plastics-coated fabrics – Mechanical test methods under biaxial stress states – Part 1: Tensile stiffness properties

prEN ISO 20418-1 en

Textiles – Qualitative and quantitative proteomic analysis of some animal hair fibres – Part 1: Peptide detection using LC-ESI-MS with protein reduction (ISO/DIS 20418-1:2017)

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

EN 13445-3:2014/prA7 en

Unfired pressure vessels – Part 3: Design

Neložene tlačne posude – 3. dio: Projektiranje

EN 13480-5:2012/prA4 en

Metallic industrial piping – Part 5: Inspection and testing

Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje

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

prEN 12012-4 en

Plastics and rubber machines – Size reduction machines – Part 4: Safety requirements for agglomerators

Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 4. dio: Sigurnosni zahtjevi za drobilice

prEN ISO 19085-13 en

Woodworking machines – Safety – Part 13: Multi-blade rip sawing machines with manual loading and/or unloading (ISO/DIS 19085-13:2017)

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

prEN 17116-2 en

Specifications for industrial laundry machines – Definitions and testing of capacity and consumption characteristics – Part 2: Batch drying tumblers

prEN 17116-3 en

Specifications for industrial laundry machines – Definitions and testing of capacity and consumption characteristics – Part 3: Continuous tunnel washer

prEN 17116-4 en

Specifications for industrial laundry machines – Definitions and testing of capacity and consumption characteristics – Part 4: Washer-extractors

### **HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom**

prEN ISO 8442-9 en

Materials and articles in contact with foodstuffs – Cutlery and table holloware – Part 9: Requirements for ceramic knives (ISO/DIS 8442-9:2017)

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

prEN 913 en

Gymnastic equipment – General safety requirements and test methods

Gimnastička oprema – Opći sigurnosni zahtjevi i metode ispitivanja

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

prEN 50388-1 en

Railway Applications – Fixed installations and rolling stock – Technical criteria for the coordination between traction power supply and rolling stock to achieve interoperability – Part 1: general

prEN 50388-2:2017 en

Railway Applications – Fixed installations and rolling stock – Technical criteria for the coordination between power supply and rolling stock to achieve interoperability – Part 2: stability and harmonics



## HZN/TO E10, *Fluidi za primjenu u elektrotehnici*

- prEN 61125:2017 en  
Insulating liquids – Test methods for oxidation stability – Test method for evaluating of oxidation stability of uninhibited and 6 inhibited insulating liquids (former IEC 61125 Part C) (IEC 61125:201X)

## HZN/TO E11, *Nadzemni vodovi*

- EN 50341-2-9:2017 en  
Overhead electrical lines exceeding AC 1 kV – Part 2-9: National Normative Aspects (NNA) for Great Britain and Northern Ireland (based on EN 50341-1:2012)  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-9: Nacionalni normativni aspekti (NNA) za Veliku Britaniju i Sjevernu Irsku (na temelju EN 50341-1:2012)

## HZN/TO E14, *Energetski transformatori*

- EN 60076-3:2013/prA1:2017 en  
Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air (IEC 60076-3:2013/am1:201X)  
Energetski transformatori – 3. dio: Izolacijske razine, dielektrična ispitivanja i vanjski razmaci u zraku (IEC 60076-3:2013/am1:201X)
- prEN 60076-22-1:2017 en  
Power transformer and reactor fittings – Part 22-1: Protective devices (IEC 60076-22-1:201X)
- prEN 60076-22-2:2017 en  
Power transformer and reactor cooling equipment – Part 22-2: Removable radiators (IEC 60076-22-2:201X)
- prEN 60076-22-3:2017 en  
Power transformer and reactor cooling equipment – Part 22-3: Insulating liquid to air heat exchangers (IEC 60076-22-3:201X)
- prEN 60076-22-4:2017 en  
Power transformer and reactor cooling equipment – Part 22-4: Insulating liquid to water heat exchangers (IEC 60076-22-4:201X)

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

- prEN 61439-7:2017 en  
Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electrical vehicles charging stations (IEC 61439-7:201X)

## HZN/TO E20, *Električni kabeli*

- EN 60332-3-10:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables – Apparatus (IEC 60332-3-10:2000/am2:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-10: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Ispitni uređaji (IEC 60332-3-10:2000/am2:201X)
- EN 60332-3-21:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-21: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A F/R (IEC 60332-3-21:2000/am1:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-21: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Vrsta ispitivanja A F/R (IEC 60332-3-21:2000/am1:201X)
- EN 60332-3-22:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A (IEC 60332-3-22:2000/am2:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-22: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Vrsta ispitivanja A (IEC 60332-3-22:2000/am2:201X)

- EN 60332-3-23:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-23: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category B (IEC 60332-3-23:2000/am2:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-23: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Vrsta ispitivanja B (IEC 60332-3-23:2000/am2:201X)

- EN 60332-3-24:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C (IEC 60332-3-24:2000/am2:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-24: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Vrsta ispitivanja C (IEC 60332-3-24:2000/am2:201X)

- EN 60332-3-25:2009/prA2:2017 en  
Tests on electric and optical fibre cables under fire conditions – Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category D (IEC 60332-3-25:2000/am2:201X)  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-25: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Vrsta ispitivanja D (IEC 60332-3-25:2000/am2:201X)

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

- prEN 62386-207:2017 en  
Digital addressable lighting interface – Part 207: Particular requirements for control gear – LED modules (device type 6) (prEN 62386-207:2017)  
Digitalno upravljanje rasvjetom – 207. dio: Posebni zahtjevi za predspojne naprave – Moduli za svjetleće diode (uređaji tipa 6) (prEN 62386-207:2017)
- prEN 62386-216:2017 en  
Digital addressable lighting interface – Part 216: Particular requirements for control gear – Load referencing (device type 15) (IEC 62386-216:201X)
- prEN 62386-217:2017 en  
Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16) (IEC 62386-217:201X)
- prEN 62386-218:2017 en  
Digital addressable lighting interface – Part 218: Particular requirements for control gear – Dimming Curve Selection (device type 17) (IEC 62386-218:201X)
- prEN 62386-222:2017 en  
Digital addressable lighting interface – Part 222: Particular requirements for control gear – Thermal lamp protection (device type 21) (IEC 62386-222:201X)
- EN 62554:2011/prA1:2017 en  
Sample preparation for measurement of mercury level in fluorescent lamps (IEC 62554:2011/am1:201X)  
Pripremanje uzorka za mjerenje razine žive u fluorescentnim cijevima (IEC 62554:2011/am1:201X)
- EN 62612:2013/prA2:2017 en  
Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements (IEC 62612:2013/am2:201X)  
Žarulje sa svjetlećim diodama s vlastitom predspojnom napravom za opću uporabu u rasvjeti s naponom napajanja većim od 50 V – Izvedbeni zahtjevi (IEC 62612:2013/am2:201X)

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

- prEN 61496-3:2017 en  
Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR) (IEC 61496-3:201X)  
Sigurnost strojeva – Elektroosjetljiva zaštitna oprema – 3. dio: Posebni zahtjevi za aktivne optoelektroničke zaštitne naprave osjetljive na difuznu refleksiju (IEC 61496-3:201X)

## HZN/TO E45, Nuklearna instrumentacija

FprEN 60780-323:2017 en  
Nuclear facilities – Electrical equipment important to safety – Qualification (IEC/IEEE 60780-323:2016)  
Nuklearni objekti – Električna oprema važna za sigurnost – Svojstva (IEC/IEEE 60780-323:2016)

FprEN 62765-1:2017 en  
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of sensors and transmitters – Part 1: Pressure transmitters (IEC 62765-1:2015)

## HZN/TO E56, Pouzdanost

prEN 62853:2017 en  
Open systems dependability (IEC 62853:201X)

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

EN 60601-2-54:2009/prA2:2017 en  
Medical electrical equipment – Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy (IEC 60601-2-54:2009/am2:201X)  
Medicinska električna oprema – Dio 2-54: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke rendgenske opreme za radiografiju i radioskopiju (IEC 60601-2-54:2009/am2:201X)

prEN 80601-2-60:2017 en  
Medical electrical equipment – Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment (IEC 80601-2-60:201X)  
Medicinska električna oprema – Dio 2-60: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke stomatološke opreme (IEC 80601-2-60:201X)

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

HD 60364-7-718:2013/A11:2017 en  
Low-voltage electrical installations – Part 7-718: Requirements for special installations or locations – Communal facilities and workplaces  
Niskonaponske električne instalacije – Dio 7-718: Zahtjevi za posebne instalacije ili prostore – Javne ustanove i mjesta rada

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

prEN 60534-1:2017 en  
Industrial-process control valves – Part 1: Control valve terminology and general considerations (IEC 60534-1:201X)  
Regulacijski ventili za industrijske procese – 1. dio: Nazivlje i opće pretpostavke o regulacijskim ventilima (IEC 60534-1:201X)

prEN 60534-3-1:2017 en  
Industrial-process control valves – Part 3-1: Dimensions – Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves (IEC 60534-3-1:201X)  
Regulacijski ventili za industrijske procese – Dio 3-1: Dimenzije – Dimenzije sučelja dvopoložajnih, kuglastih, ravnih regulacijskih (upravljačkih) ventila s priрубnicom i dimenzije od središta prema površini dvopoložajnih, kuglastih kutnih regulacijskih (upravljačkih) ventila s priрубnicom (IEC 60534-3-1:201X)

prEN 61158-4-X:2017 en  
Industrial communication networks – Fieldbus specifications – Part 4-X: Data-link layer protocol specification – Type x elements (IEC 61158-4-X:201X)

prEN 61784-5-x:2017 en  
Industrial communication networks – Profiles – Part 5-x: Installation of fieldbuses – Installation profiles for CPF x (IEC 61784-5-X:201X)

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

prEN 61938:2017 en  
Multimedia systems – Guide to the recommended characteristics of analogue interfaces to achieve interoperability (GMT) (IEC 61938:201X)  
Multimedijски sustavi – Uputa o preporučenim značajkama analognih sučelja za ostvarivanje uzajamnog djelovanja (GMT) (IEC 61938:201X)

prEN 62731:2017 en  
Text to speech for television – General requirements (IEC 62731:201X)  
Pretvorba teksta u govor namijenjena televiziji – Opći zahtjevi (TC 100) (IEC 62731:201X)

## HZN/TO E112, Procjena i značajke električnih izolacijskih materijala i sustava

prEN 61857-33:2017 en  
Electrical insulation systems – Procedures for thermal evaluation – Part 33: Multifactor evaluation with increased factors at elevated temperature (IEC 61857-33:201X)

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

prEN 55015:2017 en  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:201X)  
Granice i metode mjerenja značajka radiosmetnja električnih rasvjetnih i sličnih uređaja (CISPR 15:201X)

EN 55016-1-4:2010/prA3:2017 (fragment 1) en  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements (CISPR 16-1-4:2010/am3:201X (fragment 1))  
Specifikacija uređaja i metoda za mjerenje radiosmetnja i otpornosti – Dio 1-4: Uređaji za mjerenje radiosmetnja i otpornosti – Antene i ispitna mjesta za mjerenje zračenih smetnja (CISPR 16-1-4:2010/am3:201X (fragment 1))

## HZN/TO Z1, Informacijska tehnologija

prEN 419241-2 en  
Trustworthy Systems Supporting Server Signing – Part 2: Protection profile for QSCD for Server Signing

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

prEN 17125 en  
Domestic spas and hot tubs – Safety requirements and test methods

## HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1

prEN ISO 4619 en  
Driers for paints and varnishes (ISO/DIS 4619:2017)  
Sušila za boje i lakove (ISO/DIS 4619:2017)

prEN ISO 6504-1 en  
Paints and varnishes – Determination of hiding power – Part 1: Kubelka-Munk method for white and light-coloured paints (ISO/DIS 6504-1:2017)  
Boje i lakovi – Određivanje pokrivne moći – 1. dio: Kubelka-Munkova metoda za bijele i svijetle boje (ISO/DIS 6504-1:2017)

prEN ISO 12944-6 en  
Paints and varnishes – Corrosion protection of steel structures by protective coating systems – Part 6: Laboratory performance test methods (ISO/DIS 12944-6:2017)  
Boje i lakovi – Zaštita od korozije čeličnih konstrukcija zaštitnim sustavom boja – 6. dio: Metode laboratorijskih ispitivanja svojstava (ISO/DIS 12944-6:2017)

prEN 17120 en  
Photocatalysis – Water purification – Performance of photocatalytic materials by measurement of phenol degradation

## HZN/TU I2, Strojstvo 2

- prEN 17115 en  
Entertainment technology – Specifications for design and manufacture of aluminium and steel trusses  
Tehnologija za zabavne parkove – Specifikacije za projektiranje i proizvodnju aluminijskih i čeličnih rešetkastih nosača

## HZN/TU M1, Metalni materijali 1

- prEN ISO 3923-1 en  
Metallic powders – Determination of apparent density – Part 1: Funnel method (ISO/DIS 3923-1:2017)  
Metalni praškovi – Određivanje prividne gustoće – 1. dio: Metoda lijevka (ISO/DIS 3923-1:2017)
- prEN ISO 3927 en  
Metallic powders, excluding powders for hardmetals – Determination of compressibility in uniaxial compression (ISO/FDIS 3927:2017)  
Metalni prahovi, osim prahova za tvrde metale – Određivanje stlačljivosti pri jednoosnoj kompresiji (ISO/FDIS 3927:2017)
- prEN ISO 4492 en  
Metallic powders, excluding powders for hardmetals – Determination of dimensional changes associated with compacting and sintering (ISO/FDIS 4492:2017)  
Metalni prah, osim praha za tvrde metale – Određivanje promjena dimenzija pri prešanju i sinteriranju (ISO/FDIS 4492:2017)
- prEN ISO 5754 en  
Sintered metal materials, excluding hardmetals – Unnotched impact test piece (ISO/FDIS 5754:2017)  
Sinterirani metalni materijali, osim tvrdih metala – Ispitni uzorak bez ureza za ispitivanje žilavosti (ISO/FDIS 5754:2017)

## HZN/TU N1, Nemetalni materijali 1

- prEN 993-1 en  
Methods of test for dense shaped refractory products – Part 1: Determination of bulk density, apparent porosity and true porosity  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 1. dio: Određivanje stvarne volumne gustoće, prividne poroznosti i stvarne poroznosti
- prEN 993-6 en  
Methods of test for (dense) shaped refractory products – Part 6: Determination of modulus of rupture at ambient temperature  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 6. dio: Određivanje nosivosti pri sobnoj temperaturi

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

- prEN ISO 7488 en  
Mixing machines for dental amalgam (ISO/DIS 7488:2017)  
Uređaji za miješanje dentalnog amalgama (ISO/DIS 7488:2017)
- prEN ISO 7494-1 en  
Dentistry – Stationary dental units and dental patient chairs – Part 1: General requirements and test methods (ISO/DIS 7494-1:2017)  
Stomatologija – Nepomične stomatološke radne jedinice i stomatološki stolci – 1. dio: Opći zahtjevi i metode ispitivanja (ISO/DIS 7494-1:2017)
- prEN ISO 10477 en  
Dentistry – Polymer-based crown and veneering materials (ISO/DIS 10477:2017)  
Stomatologija – Materijali na bazi polimera za izradu krunica i ljuskica (ISO/DIS 10477:2017)
- prEN ISO 10637 en  
Dentistry – Central suction source equipment (ISO/DIS 10637:2017)  
Stomatologija – Aspirator (ISO/DIS 10637:2017)
- prEN ISO 10650 en  
Dentistry – Powered polymerization activators (ISO/DIS 10650:2017)  
Stomatologija – Aktivatori polimerizacije (ISO/DIS 10650:2017)
- prEN ISO 13897 en  
Dentistry – Dental amalgam reusable mixing-capsules (ISO/DIS 13897:2017)  
Stomatologija – Višekratne kapsule za miješanje dentalnog amalgama (ISO/DIS 13897:2017)

- prEN ISO 14607 en  
Non-active surgical implants – Mammary implants – Particular requirements (ISO/DIS 14607:2017)  
Neaktivni kirurški implantati – Implantati za dojke – Posebni zahtjevi (ISO/DIS 14607:2017)

- prEN ISO 20569 en  
Dentistry – Trepine burs (ISO/DIS 20569:2017)  
Stomatologija – Svrkla za trepanaciju (ISO/DIS 20569:2017)

- prEN ISO 20570 en  
Dentistry – Oral surgical scalpel handle (ISO/DIS 20570:2017)  
Stomatologija – Drška skalpela za oralnu kirurgiju (ISO/DIS 20570:2017)

- prEN ISO 23500-1 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies – Part 1: General requirements (ISO/DIS 23500-1:2017)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 1. dio: Opći zahtjevi (ISO/DIS 23500-1:2017)

- prEN ISO 23500-2 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies – Part 2: Water treatment equipment for haemodialysis applications and related therapies (ISO/DIS 23500-2:2017)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 2. dio: Uređaji za obradu vode za potrebe hemodijalize i srodnih terapija (ISO/DIS 23500-2:2017)

- prEN ISO 23500-3 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies – Part 3: Water for haemodialysis and related therapies (ISO/DIS 23500-3:2017)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 3. dio: Voda za hemodijalizu i srodne terapije (ISO/DIS 23500-3:2017)

- prEN ISO 23500-4 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies – Part 4: Concentrates for haemodialysis and related therapies (ISO/DIS 23500-4:2017)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 4. dio: Koncentrati za hemodijalizu i srodne terapije (ISO/DIS 23500-4:2017)

- prEN ISO 23500-5 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies – Part 5: Quality of dialysis fluid for haemodialysis and related therapies (ISO/DIS 23500-5:2017)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 5. dio: Kvaliteta tekućine za hemodijalizu i srodne terapije (ISO/DIS 23500-5:2017)

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

- FprEN 2346-005 en  
Aerospace series – Cable, electrical, fire resistant – Operating temperatures between -65 °C and 260 °C – Part 005: DW family, single UV laser printable and multicore assembly – Light weight – Product standard  
Zrakoplovstvo – Kabel, električni, otporan na vatru – Radne temperature između -65 °C i 260 °C – 005. dio: DW porodica, samostalno ispisivanje UV laserom i višezilni sklop – Male težine – Norma za proizvod

- FprEN 3475-701 en  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 701 – Strippability and adherence of insulation to the conductor  
Zrakoplovstvo – Električni kabeli za upotrebu u zrakoplovstvu – Metode ispitivanja – 701. dio: Sposobnost skidanja i prijanjanja izolacije na vodiču

- FprEN 4533-002 en  
Aerospace series – Fibre optic systems – Handbook – Part 002: Test and measurement  
Zrakoplovstvo – Sustavi optičkih vlakana – Priručnik – 002. dio: Ispitivanje i mjerenje



FprEN 4533-003 en  
Aerospace series – Fibre optic systems – Handbook – Part 003:  
Looming and installation practices  
Zrakoplovstvo – Sustavi optičkih vlakana – Priručnik – 003. dio:  
Postavljanje plašta i praksa instaliranja

FprEN 4533-004 en  
Aerospace series – Fibre optic systems – Handbook – Part 004:  
Repair, maintenance, cleaning and inspection

FprEN 4652-321 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 321: Type 3, N interface – Crimp assembly version  
– Right angle plug – Product standard

FprEN 4702-02 en  
Aerospace series – Quick release fastening systems for non-  
structural and lining applications – Part 02: Spring clamp stud  
combination

FprEN 4702-03 en  
Aerospace series – Quick release fastening systems for  
non-structural and lining applications – Part 03: Stud-quick-  
release and locking

FprEN 4702-04 en  
Aerospace series – Quick release fastening systems for non-  
structural and lining applications – Part 04: Spring clamp

FprEN 4702-05 en  
Aerospace series – Quick release fastening systems for non-  
structural and lining applications – Part 05: Retaining washer

FprEN 6049-008 en  
Aerospace series – Electrical cables, installation – Protective  
sleeves in meta-aramid fibres – Part 008: Self-wrapping  
shielded (EMI) protective sleeve with nickel copper braid,  
flexible post installation operating temperature from -55 °C to  
200 °C – Product standard  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake  
od meta-aramidnih vlakana – Dio 008: Samoomatajuća  
oklopljena (EMI) zaštitna navlaka s nikal-bakrenim opletom,  
prilagodljiva, za naknadnu ugradnju, radne temperature od  
-55 °C do 200 °C – Norma za proizvod

FprEN 6064 en  
Aerospace series – Analysis of non-metallic materials (cured)  
for the determination of the extent of cure by Differential  
Scanning Calorimetry (DSC)

FprEN 9117 en  
Aerospace series – Delegated Product Release Verification

FprEN 9300-005 en  
Aerospace series – LOTAR – LOng Term Archiving and  
Retrieval of digital technical product documentation such  
as 3D, CAD and PDM data – Part 005: Authentication and  
Verification

FprEN 9300-007 en  
Aerospace series – LOTAR -LOng Term Archiving and  
Retrieval of digital technical product documentation such as  
3D; CAD and PDM data – Part 007: Terms and References

## HZN/TU U1, *Opća elektrotehnika 1*

prEN 61788-24:2017 en  
Superconductivity – Part 24: Critical current measurement  
– Retained critical current after double bending at room  
temperature of Ag-sheathed Bi-2223 superconducting wires  
(IEC 61788-24:201X)

## HZN/TU V1, *Elektronika 1*

prEN 50441-5:2017 en  
Cables for indoor residential telecommunication installations  
– Part 5: Cables up to 2 200 Mhz for one pair and remaining  
pairs up to 1 000 Mhz

prEN 60749-13:2017 en  
Semiconductor devices – Mechanical and climatic test  
methods – Part 13: Salt atmosphere (IEC 60749-13:201X)

prEN 60793-1-54:2017 en  
Optical fibres – Part 1-54: Measurement methods and test  
procedures – Gamma irradiation (IEC 60793-1-54:201X)

EN 62153-4-7:2016/prA1:2017 en  
Test method for measuring the transfer impedance ZT and  
the screening attenuation as or coupling attenuation aC of  
RF-connectors and assemblies up to and above 3 GHz,  
triaxial tube in tube method (IEC 62153-4-7:2015/am1:201X)

prEN 62884-2:2017 en  
Measurement techniques of piezoelectric; dielectric and  
electrostatic oscillators – Part 2: Phase jitter measurement  
method (IEC 62884-2:201X)

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

prEN 60665:2017 en  
A.C. ventilating fans and regulators for household and  
similar purposes – Methods for measuring performance  
(IEC 60665:201X)

## 1.4 Povučene hrvatske norme

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavoda za  
norme donosi odluku o povlačenju hrvatske norme kada je donesena  
nova hrvatska norma ili kada je postojeća hrvatska norma postala  
neprimjenjiva.

Kada je koje područje uređeno propisima i neki od propisa (pravilnik,  
naredba, naputak) upućuje na norme koje su povučene, one se  
primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe  
novih, na raspolaganju u Normoteci HZN-a.

## HZN/TO 25, *Ljevarstvo*

HRN EN 10222-1:2002 en  
Čelični otkovci za tlačne namjene – 1. dio: Opći zahtjevi za  
slobodno kovane otkovke (EN 10222-1:1998+A1:2002)  
Steel forgings for pressure purposes – Part 1: General  
requirements for open die forgings (EN 10222-1:1998+A1:2002)  
– zamijenjena s: HRN EN 10222-1:2017

HRN EN 10222-2/AC:2007 en  
Čelični otkivci za tlačne namjene – 2. dio: Feritni i martenzitni  
čelici s utvrđenim svojstvima pri povišenim temperaturama  
(EN 10222-2:1999/AC:2000)  
Steel forgings for pressure purposes – Part 2: Ferritic and  
martensitic steels with specified elevated temperature  
properties (EN 10222-2:1999/AC:2000)  
– zamijenjena s: HRN EN 10222-2:2017

HRN EN 10222-2:2001 en  
Čelični otkivci za tlačne namjene – 2. dio: Feritni i martenzitni  
čelici s utvrđenim svojstvima pri povišenim temperaturama  
(EN 10222-2:1999)  
Steel forgings for pressure purposes – Part 2: Ferritic and  
martensitic steels with specified elevated temperature  
properties (EN 10222-2:1999)  
– zamijenjena s: HRN EN 10222-2:2017

HRN EN 10222-3:2002 en  
Čelični otkovci za tlačne namjene – 3. dio: Čelici legirani  
niklom s utvrđenim svojstvima pri niskim temperaturama  
(EN 10222-3:1998)  
Steel forgings for pressure purposes – Part 3: Nickel steels  
with specified low temperature properties (EN 10222-3:1998)  
– zamijenjena s: HRN EN 10222-3:2017

HRN EN 10222-4:2002 en  
Čelični otkovci za tlačne namjene – 4. dio: Zavarivi  
sitnozrnati čelici s visokom granicom razvlačenja  
(EN 10222-4:1998+A1:2001)  
Steel forgings for pressure purposes – Part 4:  
Weldable fine grain steels with high proof strength  
(EN 10222-4:1998+A1:2001)  
– zamijenjena s: HRN EN 10222-4:2017

HRN EN 10222-5:2002 en  
Čelični otkovci za tlačne namjene – 5. dio: Martenzitni,  
austenitni i austenitno-feritni nehrđajući čelici  
(EN 10222-5:1999+AC:2000)  
Steel forgings for pressure purposes – Part 5: Martensitic,  
austenitic and austenitic-ferritic stainless steels  
(EN 10222-5:1999+AC:2000)  
– zamijenjena s: HRN EN 10222-5:2017



## HZN/TO 28, Naftni proizvodi i maziva

- HRN EN ISO 6246:1998 en  
Naftni proizvodi – Sadržaj smole u lakim i srednjim destilatnim gorivima – Metoda isparivanja pomoću mlaznice (ISO 6246:1995; EN ISO 6246:1997)  
Petroleum products – Gum content of light and middle distillate fuels – Jet evaporation method (ISO 6246:1995; EN ISO 6246:1997)  
- zamijenjena s: HRN EN ISO 6246:2017

## HZN/TO 44, Zavarivanje i srodni postupci

- HRN EN 1274:2007 en  
Toplinsko nastrcavanje – Praškovi – Kemijski sastav, tehnički uvjeti isporuke (EN 1274:2004)  
Thermal spraying – Powders – Composition, technical supply conditions (EN 1274:2004)  
- zamijenjena s: HRN EN ISO 14232-1:2017

- HRN EN ISO 14343:2010 en  
Dodatni i potrošni materijali za zavarivanje – Žičane elektrode, trakaste elektrode, žice i šipke za elektrolučno zavarivanje nehrđajućih čelika i čelika otpornih na visoke temperature – Razredba (ISO 14343:2009; EN ISO 14343:2009)  
Welding consumables – Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels – Classification (ISO 14343:2009; EN ISO 14343:2009)  
- zamijenjena s: HRN EN ISO 14343:2017

- HRN EN 14610:2008 en  
Zavarivanje i srodni postupci – Definicije postupaka zavarivanja metala (EN 14610:2004)  
Welding and allied processes – Definitions of metal welding processes (EN 14610:2004)  
- bez zamjene

- HRI CEN ISO/TR 15608:2014 en  
Zavarivanje – Upute za sustav razvrstavanja metalnih materijala (ISO/TR 15608:2013; CEN ISO/TR 15608:2013)  
Welding – Guidelines for a metallic materials grouping system (ISO/TR 15608:2013; CEN ISO/TR 15608:2013)  
- bez zamjene

- HRN EN ISO 18276:2008 en  
Dodatni i potrošni materijali za zavarivanje – Punjene žice za elektrolučno zavarivanje sa zaštitom plina i bez zaštite plina za čelike povišene čvrstoće – Razredba (ISO 18276:2005; EN ISO 18276:2006)  
Welding consumables – Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high-strength steels – Classification (ISO 18276:2005; EN ISO 18276:2006)  
- zamijenjena s: HRN EN ISO 18276:2017

## HZN/TO 54, Eterična ulja

- HRN ISO 4720:2004 en,fr  
Eterična ulja – Nomenklatura (ISO 4720:2002)  
Essential oils – Nomenclature (ISO 4720:2002)  
- zamijenjena s: HRN ISO 4720:2017

## HZN/TO 71, Beton

- HRN EN 206:2014 en  
Beton – Specifikacija, svojstva, proizvodnja i sukladnost (EN 206:2013)  
Concrete – Specification, performance, production and conformity (EN 206:2013)  
- zamijenjena s: HRN EN 206:2016

- HRN EN 451-1:2004 en  
Metoda ispitivanja letećeg pepela – 1. dio: Određivanje sadržaja slobodnoga kalcijevog oksida (EN 451-1:2003)  
Method of testing fly ash – Part 1: Determination of free calcium oxide content (EN 451-1:2003)  
- zamijenjena s: HRN EN 451-1:2017

- HRN EN 451-2:2000 en  
Metode ispitivanja letećega pepela – 2. dio: Određivanje finoće mokrim sijanjem (EN 451-2:1994)  
Method of testing fly ash – Part 2: Determination of fineness by wet sieving (EN 451-2:1994)  
- zamijenjena s: HRN EN 451-2:2017

## HZN/TO 74, Cement i vapno

- HRN EN 196-3:2009 en  
Metode ispitivanja cementa – 3. dio: Određivanje vremena vezivanja i postojanosti volumena (EN 196-3:2005+A1:2008)  
Methods of testing cement – Part 3: Determination of setting times and soundness (EN 196-3:2005+A1:2008)  
- zamijenjena s: HRN EN 196-3:2016

- HRN EN 413-2:2005 en  
Zidarski cement – 2. dio: Metode ispitivanja (EN 413-2:2005)  
Masonry cement – Part 2: Test methods (EN 413-2:2005)  
- zamijenjena s: HRN EN 413-2:2016

## HZN/TO 92, Zaštita od požara

- HRN EN 1366-10:2011 en  
Ispitivanja otpornosti na požar servisnih instalacija – 10. dio: Zaklopke za upravljanje dimom (EN 1366-10:2011)  
Fire resistance tests for service installations – Part 10: Smoke control dampers (EN 1366-10:2011)  
- zamijenjena s: HRN EN 1366-10:2017

## HZN/TO 121, Anestetička i respiracijska oprema

- HRN EN 1282-2:2010 en  
Traheostomijske cijevi – 2. dio: Cijevi za djecu (ISO 5366-3:2001, MOD; EN 1282-2:2005+A1:2009)  
Tracheostomy tubes – Part 2: Paediatric tubes (ISO 5366-3:2001, MOD; EN 1282-2:2005+A1:2009)  
- zamijenjena s: HRN EN ISO 5366:2016

## HZN/TO 135, Nerazorna ispitivanja

- HRN EN 1330-8:2001 en,fr,de  
Nerazorno ispitivanje – Nazivlje – 8. dio: Nazivi koji se upotrebljavaju pri ispitivanju propusnosti (EN 1330-8:1998)  
Non destructive testing – Terminology – Part 8: Terms used in leak tightness testing (EN 1330-8:1998)  
- zamijenjena s: HRN EN ISO 20484:2017

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

- HRN EN 728:2000 en  
Plastični cijevni i kanalni sustavi – Poliolefinske cijevi i spojnice – Određivanje indukcijskog vremena oksidacije (EN 728:1997)  
Plastics piping and ducting systems – Polyolefin pipes and fittings – Determination of oxidation induction time (EN 728:1997)  
- zamijenjena s: HRN EN ISO 11357-6:2013

- HRN CEN/TS 12200-2:2004 en  
Plastični cijevni sustavi oborinskih voda za nadzemnu uporabu – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 12200-2:2003)  
Plastics rainwater piping systems for above ground external use – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Guidance for the assessment of conformity (CEN/TS 12200-2:2003)  
- zamijenjena s: HRS CEN/TS 12200-2:2017

## HZN/TO 172, Optika i optički instrumenti

- HRN EN ISO 11979-8:2015 en  
Oftalmološki implantanti – Intraokularne leće – 8. dio: Osnovni zahtjevi (ISO 11979-8:2006+Amd 1:2011; EN ISO 11979-8:2015)  
Ophthalmic implants – Intraocular lenses – Part 8: Fundamental requirements (ISO 11979-8:2006+Amd 1:2011; EN ISO 11979-8:2015)  
- zamijenjena s: HRN EN ISO 11979-8:2017

## HZN/TO 190, Kvaliteta tla

- HRN ISO 10381-6:2011 en  
Kvaliteta tla – Uzorkovanje – 6. dio: Upute o sakupljanju, rukovanju i skladištenju tla u aerobnim uvjetima za ocjenjivanje mikrobioloških procesa, biomase i raznolikosti u laboratoriju (ISO 10381-6:2009)  
Soil quality – Sampling – Part 6: Guidance on the collection, handling and storage of soil under aerobic conditions for the assessment of microbiological processes, biomass and diversity in the laboratory (ISO 10381-6:2009)  
- zamijenjena s: HRN ISO 18400-102:2017, HRN ISO 18400-105:2017

## **HZN/TO 238, Čvrsta biogoriva**

HRN EN 14778:2011 en  
Čvrsta biogoriva – Uzorkovanje (EN 14778:2011)  
Solid biofuels – Sampling (EN 14778:2011)  
- zamijenjena s: HRN EN ISO 18135:2017

## **HZN/TO 502, Plinski uređaji**

HRN EN 203-3:2009 en  
Plinski uređaji za velike kuhinje – 3. dio: Materijali i dijelovi u dodiru s hranom i drugi sanitarni aspekti (EN 203-3:2009)  
Gas heated catering equipment – Part 3: Materials and parts in contact with food and other sanitary aspects (EN 203-3:2009)  
- bez zamjene

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

HRN EN ISO 9227:2012 en  
Ispitivanje korozije u umjetnoj atmosferi – Metoda ispitivanja u slanoj komori (ISO 9227:2012; EN ISO 9227:2012)  
Corrosion tests in artificial atmospheres – Salt spray tests (ISO 9227:2012; EN ISO 9227:2012)  
- zamijenjena s: HRN EN ISO 9227:2017

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

HRN EN 13967:2012 en  
Savijljive hidroizolacijske trake – Plastične i elastomerne trake za zaštitu od vlage i vode iz tla – Definicije i značajke (EN 13967:2012)  
Flexible sheets for waterproofing – Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet – Definitions and characteristics (EN 13967:2012)  
- zamijenjena s: HRN EN 13967:2017

HRN EN 14693:2008 en  
Savijljive hidroizolacijske trake – Hidroizolacija betonskih ploča mostova i drugih betonskih voznih površina – Određivanje ponašanja bitumenskih traka pri ugradnji ljevanog asfalta (EN 14693:2006)  
Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of the behaviour of bitumen sheets during application of mastic asphalt (EN 14693:2006)  
- zamijenjena s: HRN EN 14693:2017

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

HRN EN 13803-1:2011 en  
Željeznički sustav – Željeznički gornji ustroj – Parametri za projektiranje geometrije kolosijeka – Širine kolosijeka 1435 mm i više – 1. dio: Otvorena pruga (EN 13803-1:2010)  
Railway applications – Track – Track alignment design parameters – Track gauges 1435 mm and wider – Part 1: Plain line (EN 13803-1:2010)  
- zamijenjena s: HRN EN 13803:2017

HRN EN 13803-2:2010 en  
Željeznički sustav – Željeznički gornji ustroj – Parametri za projektiranje geometrije kolosijeka – Širine kolosijeka 1435 mm i više – 2. dio: Skretnice i križišta te druga slična projektna oblikovanja s naglim promjenama zakrivljenosti (EN 13803-2:2006+A1:2009)  
Railway applications – Track – Track alignment design parameters – Track gauges 1435 mm and wider – Part 2: Switches and crossings and comparable alignment design situations with abrupt changes of curvature (EN 13803-2:2006+A1:2009)  
- zamijenjena s: HRN EN 13803:2017

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

HRN ISO 4302:2001 en  
Granici – Opterećenje vjetrom (ISO 4302:1981)  
Cranes – Wind load assessment (ISO 4302:1981)  
- zamijenjena s: HRN ISO 4302:2017

HRN ISO 4306-3:2003 en,fr,ru  
Granici – Rječnik – 3 dio: Toranjski granici (ISO 4306-3:2003)  
Cranes – Vocabulary – Part 3: Tower cranes (ISO 4306-3:2003)  
- zamijenjena s: HRN ISO 4306-3:2017

HRN ISO 4306-3:2003/A1:2014 en  
Granici – Rječnik – 3. dio: Toranjski granici (ISO 4306-3:2003/Amd 1:2011)  
Cranes – Vocabulary – Part 3: Tower cranes (ISO 4306-3:2003/Amd 1:2011)  
- zamijenjena s: HRN ISO 4306-3:2017

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

HRN EN ISO 1874-2:2012 en  
Plastika – Poliamidni (PA) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 1874-2:2012; EN ISO 1874-2:2012)  
Plastics – Polyamide (PA) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 1874-2:2012; EN ISO 1874-2:2012)  
- zamijenjena s: HRN EN ISO 16396-2:2017

HRN EN ISO 7792-1:2013 en  
Plastika – Plastomerni poliesterski materijali (TP) za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 7792-1:2012; EN ISO 7792-1:2012)  
Plastics – Thermoplastic polyester (TP) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 7792-1:2012; EN ISO 7792-1:2012)  
- zamijenjena s: HRN EN ISO 20028-1:2017

HRN EN ISO 7792-2:2013 en  
Plastika – Plastomerni poliesterski materijali (TP) za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 7792-2:2012; EN ISO 7792-2:2012)  
Plastics – Thermoplastic polyester (TP) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 7792-2:2012; EN ISO 7792-2:2012)  
- zamijenjena s: HRN EN ISO 20028-2:2017

HRN EN ISO 15023-1:2008 en  
Plastika – Poli(vinil-alkoholni) (PVAL) materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 15023-1:2001; EN ISO 15023-1:2006)  
Plastics – Poly(vinyl alcohol) (PVAL) materials – Part 1: Designation system and basis for specifications (ISO 15023-1:2001; EN ISO 15023-1:2006)  
- zamijenjena s: HRN EN ISO 15023-1:2017

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

HRN EN 12098-1:2013 en  
Regulacija sustava grijanja – 1. dio: Upravljački uređaji sustava toplovodnog grijanja (EN 12098-1:2013)  
Controls for heating systems – Part 1: Control equipment for hot water heating systems (EN 12098-1:2013)  
- zamijenjena s: HRN EN 12098-1:2017

HRN EN 15316-1:2008 en  
Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – 1. dio: Općenito (EN 15316-1:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 1: General (EN 15316-1:2007)  
- zamijenjena s: HRN EN 15316-1:2017

HRN EN 15316-2-1:2008 en  
Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 2-1: Sustavi za grijanje prostora zračenjem topline (EN 15316-2-1:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 2-1: Space heating emission systems (EN 15316-2-1:2007)  
- zamijenjena s: HRN EN 15316-2:2017

HRN EN 15316-2-3:2008 en  
Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 2-3: Razvodi sustava grijanja prostora (EN 15316-2-3:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 2-3: Space heating distribution systems (EN 15316-2-3:2007)  
- zamijenjena s: HRN EN 15316-3:2017

HRN EN 15316-3-2:2008 en  
Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 3-2: Sustavi za pripremu potrošne tople vode, razvod (EN 15316-3-2:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 3-2: Domestic hot water systems, distribution (EN 15316-3-2:2007)  
- zamijenjena s: HRN EN 15316-3:2017

HRN EN 15316-4-2:2008 en

Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-2: Sustavi za proizvodnju topline, sustavi dizalica topline (EN 15316-4-2:2008)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-2: Space heating generation systems, heat pump systems (EN 15316-4-2:2008)  
- zamijenjena s: HRN EN 15316-4-2:2017

HRN EN 15316-4-3:2008 en

Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-3: Sustavi za proizvodnju topline, toplinski sustavi sunčevog zračenja (EN 15316-4-3:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-3: Heat generation systems, thermal solar systems (EN 15316-4-3:2007)  
- zamijenjena s: HRN EN 15316-4-3:2017

HRN EN 15316-4-4:2008 en

Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-4: Sustavi za proizvodnju topline, sustavi kogeneracije uklopljeni u zgradu (EN 15316-4-4:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-4: Heat generation systems, building-integrated cogeneration systems (EN 15316-4-4:2007)  
- zamijenjena s: HRN EN 15316-4-4:2017

HRN EN 15316-4-6:2008 en

Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-6: Sustavi za proizvodnju topline, fotonaponski sustavi (EN 15316-4-6:2007)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-6: Heat generation systems, photovoltaic systems (EN 15316-4-6:2007)  
- zamijenjena s: HRN EN 15316-4-3:2017

HRN EN 15316-4-8:2012 en

Sustavi grijanja u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-8: Sustavi za proizvodnju topline, sustavi toplozračnog grijanja i sustavi grijanja zračenjem odozgo (EN 15316-4-8:2011)  
Heating systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-8: Space heating generation systems, air heating and overhead radiant heating systems (EN 15316-4-8:2011)  
- zamijenjena s: HRN EN 15316-4-8:2017

HRN EN 15378:2008 en

Sustavi grijanja u zgradama – Nadzor nad kotlovima i sustavima grijanja (EN 15378:2007)  
Heating systems in buildings – Inspection of boilers and heating systems (EN 15378:2007)  
- zamijenjena s: HRN EN 15378-1:2017

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

HRN EN 15193:2008 en

Energijska svojstva zgrade – Energijski zahtjevi za rasvjetu (EN 15193:2007)  
Energy performance of buildings – Energy requirements for lighting (EN 15193:2007)  
- zamijenjena s: HRN EN 15193-1:2017

HRN EN 15193:2008/Ispr.1:2011 en

Energijska svojstva zgrade – Energijski zahtjevi za rasvjetu (EN 15193:2007/AC:2010)  
Energy performance of buildings – Energy requirements for lighting (EN 15193:2007/AC:2010)  
- zamijenjena s: HRN EN 15193-1:2017

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

HRN EN 752:2008 en

Odvodni i kanalizacijski sustavi izvan zgrada (EN 752:2008)  
Drain and sewer systems outside buildings (EN 752:2008)  
- zamijenjena s: HRN EN 752:2017

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

HRN EN 1503-4:2016 en

Zaporni uređaji – Materijali za kućišta, jarmove i pokrove – 4. dio: Bakrene legure specificirane u europskim normama (EN 1503-4:2016)  
Valves – Materials for bodies, bonnets and covers – Part 4: Copper alloys specified in European Standards (EN 1503-4:2016)  
- bez zamjene

HRN EN ISO 5210:2002 en

Industrijski ventili – Dodaci za višeokretni pogon ventila (ISO 5210:1991; EN ISO 5210:1996)  
Industrial valves – Multi-turn valve actuator attachments (ISO 5210:1991; EN ISO 5210:1996)  
- zamijenjena s: HRN EN ISO 5210:2017

HRN EN ISO 5211:2002 en

Industrijski ventili – Dodaci za dijelom okretni pogon ventila (ISO 5211:2001; EN ISO 5211:2001)  
Industrial valves – Part-turn valve actuator attachments (ISO 5211:2001; EN ISO 5211:2001)  
- zamijenjena s: HRN EN ISO 5211:2017

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

HRN EN ISO 11114-4:2008 en

Prenosive plinske boce – Kompatibilnost materijala boce i ventila boce s plinskim sadržajem – 4. dio: Metode ispitivanja za izbor metalnih materijala otpornih na krstost zbog vodika (ISO 11114-4:2005; EN ISO 11114-4:2005)  
Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement (ISO 11114-4:2005; EN ISO 11114-4:2005)  
- zamijenjena s: HRN EN ISO 11114-4:2017

HRN EN 14359:2010 en

Akumulacijski spremnici punjeni plinom za hidraulične pogonske sustave (EN 14359:2006+A1:2010)  
Gas-loaded accumulators for fluid power applications (EN 14359:2006+A1:2010)  
- zamijenjena s: HRN EN 14359:2017

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

HRN EN 13898:2009 en

Alatni strojevi – Sigurnost – Strojevi za piljenje metala (EN 13898:2003+A1:2009)  
Machine tools – Safety – Sawing machines for cold metal (EN 13898:2003+A1:2009)  
- zamijenjena s: HRN EN ISO 16093:2017

HRN EN 13898:2009/Ispr.1:2012 en

Alatni strojevi – Sigurnost – Strojevi za piljenje metala (EN 13898:2003+A1:2009/AC:2010)  
Machine tools – Safety – Sawing machines for cold metal (EN 13898:2003+A1:2009/AC:2010)  
- zamijenjena s: HRN EN ISO 16093:2017

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

HRS ISO/TS 22964:2010 en

Mlijeko i mliječni proizvodi – Detekcija Enterobacter sakazakii (ISO/TS 22964:2006)  
Milk and milk products – Detection of Enterobacter sakazakii (ISO/TS 22964:2006)  
- zamijenjena s: HRN EN ISO 22964:2017

HRS ISO/TS 27105:2010 en

Mlijeko i mliječni proizvodi – Određivanje lizozima bjelanjka kokošjeg jajeta HPLC-om (ISO/TS 27105:2009)  
Milk and milk products – Determination of hen's egg white lysozyme by HPLC (ISO/TS 27105:2009)  
- zamijenjena s: HRN ISO 27105:2017

## **HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom**

HRN EN ISO 10273:2004 en

Mikrobiologija hrane i stočne hrane – Horizontalna metoda za dokazivanje suspektne patogene Yersinia enterocolitica (ISO 10273:2003; EN ISO 10273:2003)  
Microbiology of food and animal feeding stuffs – Horizontal method for the detection of presumptive pathogenic Yersinia enterocolitica (ISO 10273:2003; EN ISO 10273:2003)  
- zamijenjena s: HRN EN ISO 10273:2017



## HZN/TO E79, Alarmni sustavi

- HRN EN 50132-5:2004 en  
Alarmni sustavi – Sustavi nadzora pomoću TV zatvorenog kruga za uporabu u primjenama zaštite – 5. dio: Video prijenos (EN 50132-5:2001)  
Alarm systems – CCTV surveillance systems for use in security applications – Part 5: Video transmission (EN 50132-5:2001)  
- zamijenjena s: HRN EN 50132-5-3:2013

## HZN/TO T4, Normizacija u telekomunikacijama

- HRN EN 301 549 V1.1.1:2014 en  
Zahtjevi s obzirom na dostupnost ICT proizvoda i usluga prikladni za primjenu u javnim nabavama u Europi (EN 301 549 V1.1.1:2014)  
Accessibility requirements suitable for public procurement of ICT products and services in Europe (EN 301 549 V1.1.1:2014)  
- zamijenjena s: HRN EN 301 549 V1.1.2:2015

## HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1

- HRN EN ISO 12966-2:2011 en  
Životinjske i biljne masti i ulja – Određivanje metilnih estera masnih kiselina plinskom kromatografijom – 2. dio: Priprava metilnih estera masnih kiselina (ISO 12966-2:2011; EN ISO 12966-2:2011)  
Animal and vegetable fats and oils – Gas chromatography of fatty acid methyl esters – Part 2: Preparation of methyl esters of fatty acids (ISO 12966-2:2011; EN ISO 12966-2:2011)  
- zamijenjena s: HRN EN ISO 12966-2:2017

- HRN EN 13523-27:2011 en  
Zaštićeni limovi u kolutovima – Metode ispitivanja – 27. dio: Otpornost na vlažne obloge (Cataplasma test) (EN 13523-27:2009)  
Coil coated metals – Test methods – Part 27: Resistance to humid poultice (Cataplasma test) (EN 13523-27:2009)  
- zamijenjena s: HRN EN 13523-27:2017

- HRN EN ISO 15302:2010 en  
Životinjske i biljne masti i ulja – Određivanje količine benzo(a)pirena metodom reverzno-fazne tekućinske kromatografije visokog učinka (ISO 15302:2007; EN ISO 15302:2010)  
Animal and vegetable fats and oils – Determination of benzo[a]pyrene – Reverse-phase high performance liquid chromatography method (ISO 15302:2007; EN ISO 15302:2010)  
- zamijenjena s: HRN EN ISO 15302:2017

- HRN EN ISO 16773-4:2011 en  
Boje i lakovi – Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučeni uzorcima – 4. dio: Primjeri spektra polimerom prevučenih uzoraka (ISO 16773-4:2009; EN ISO 16773-4:2009)  
Paints and varnishes – Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens – Part 4: Examples of spectra of polymer-coated specimens (ISO 16773-4:2009; EN ISO 16773-4:2009)  
- zamijenjena s: HRN EN ISO 16773-4:2017

## HZN/TU I2, Strojstvo 2

- HRN EN ISO 15236-3:2008 en  
Steel cord conveyor belts – Part 3: Special safety requirements for belts for use in underground installations (ISO 15236-3:2007; EN ISO 15236-3:2007)  
- zamijenjena s: HRN EN ISO 15236-3:2017

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

- HRN EN 2285:2008 en  
Nizovi o zrakoplovstvu – Čahure izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2285:1989)  
Aerospace series – Bushes, plain aluminium alloy with self-lubricating liner – Dimensions and loads (EN 2285:1989)  
- zamijenjena s: HRN EN 2285:2017

- HRN EN 2286:2008 en  
Nizovi o zrakoplovstvu – Čahure s prirubnicom izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2286:1989)  
Aerospace series – Bushes, flanged aluminium alloy with self-lubricating liner – Dimensions and loads (EN 2286:1989)  
- zamijenjena s: HRN EN 2286:2017

- HRN EN 13291-1:2008 en  
Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Opći zahtjevi – 1. dio: Politika i načela (EN 13291-1:1999)  
Space product assurance – General requirements – Part 1: Policy and principles (EN 13291-1:1999)  
- zamijenjena s: HRN EN 16602-10:2017

## 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. Navedeni ispravci smatraju se službenom informacijom i nisu nužno uključeni u norme koje su prethodno objavljene.

### HZN/TO 69, Primjena statističkih metoda

#### • umjesto

- HRN ISO 3951-1:2016  
Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“ (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 3951-1:2013)

#### • treba biti

- HRN ISO 3951-1:2016  
Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“ (ISO 3951-1:2013, **ispravljena verzija 2016-12-15**)  
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 3951-1:2013, **Corrected version 2016-12-15**)

#### • umjesto

- HRN ISO 3951-2:2016  
Postupci uzorkovanja pri pregledima prema varijablama – 2. dio: Opće specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za neovisne značajke kvalitete (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 3951-2:2013)

#### • treba biti

- HRN ISO 3951-2:2016  
Postupci uzorkovanja pri pregledima prema varijablama – 2. dio: Opće specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za neovisne značajke kvalitete (ISO 3951-2:2013, **ispravljena verzija 2016-12-15**)  
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 3951-2:2013, **Corrected version 2016-12-15**)



## HZN/TO 108, Mehaničke vibracije i udari

- **umjesto**

HRN EN ISO 10326-1:2016

Mehaničke vibracije – Laboratorijska metoda za procjenu vibracija na sjedalu vozila – 1. dio: Osnovni zahtjevi (ISO 10326-1:2016; EN ISO 10326-1:2016)  
Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements (ISO 10326-1:2016; EN ISO 10326-1:2016)

- **treba biti**

HRN EN ISO 10326-1:2016

Mehaničke vibracije – Laboratorijska metoda za procjenu vibracija na sjedalu vozila – 1. dio: Osnovni zahtjevi (ISO 10326-1:2016, **ispravljena verzija 2017-02**; EN ISO 10326-1:2016)  
Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements (ISO 10326-1:2016, **Corrected version 2017-02**; EN ISO 10326-1:2016)

## HZN/TO 172, Optika i optički instrumenti

- **umjesto**

HRN EN ISO 10685-2:2016

Oftalmološka optika – Označivanje okvira za naočale i sunčane naočale u elektroničkom katalogu – 2. dio: Trgovačke informacije (ISO 10685-2:2016; EN ISO 10685-2:2016)  
Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information (ISO 10685-2:2016; EN ISO 10685-2:2016)

- **treba biti**

HRN EN ISO 10685-2:2016

Oftalmološka optika – Označivanje okvira za naočale i sunčane naočale u elektroničkom katalogu – 2. dio: Trgovačke informacije (ISO 10685-2:2016, **ispravljena verzija 2016-05-15**; EN ISO 10685-2:2016)  
Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information (ISO 10685-2:2016, **Corrected version 2016-05-15**; EN ISO 10685-2:2016)

## HZN/TO 217, Kozmetika

- **umjesto**

HRN EN ISO 11930:2012

Kozmetika – Mikrobiologija – Vrednovanje antimikrobne zaštite kozmetičkog proizvoda (ISO 11930:2012; EN ISO 11930:2012)  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2012; EN ISO 11930:2012)

- **treba biti**

HRN EN ISO 11930:2012

Kozmetika – Mikrobiologija – Vrednovanje antimikrobne zaštite kozmetičkog proizvoda (ISO 11930:2012, **ispravljena verzija 2013-05-01**; EN ISO 11930:2012)  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2012, **Corrected version 2013-05-01**; EN ISO 11930:2012)

- **umjesto**

HRN EN ISO 18416:2015

Kozmetika – Mikrobiologija – Dokazivanje kvasca *Candida albicans* (ISO 18416:2015; EN ISO 18416:2015)  
Cosmetics – Microbiology – Detection of *Candida albicans* (ISO 18416:2015; EN ISO 18416:2015)

- **treba biti**

HRN EN ISO 18416:2015

Kozmetika – Mikrobiologija – Dokazivanje kvasca *Candida albicans* (ISO 18416:2015, **ispravljena verzija 2016-12-15**; EN ISO 18416:2015)  
Cosmetics – Microbiology – Detection of *Candida albicans* (ISO 18416:2015, **Corrected version 2016-12-15**; EN ISO 18416:2015)

- **umjesto**

HRN EN ISO 22716:2008

Kozmetika – Dobra proizvođačka praksa (DPP) – Smjernice za dobru proizvođačku praksu (ISO 22716:2007; EN ISO 22716:2007)  
Cosmetics – Good Manufacturing Practices (GMP) – Guidelines on Good Manufacturing Practices (ISO 22716:2007; EN ISO 22716:2007)

- **treba biti**

HRN EN ISO 22716:2008

Kozmetika – Dobra proizvođačka praksa (DPP) – Smjernice za dobru proizvođačku praksu (ISO 22716:2007, **ispravljena verzija 2008-05-15**; EN ISO 22716:2007)  
Cosmetics – Good Manufacturing Practices (GMP) – Guidelines on Good Manufacturing Practices (ISO 22716:2007, **Corrected version 2008-05-15**; EN ISO 22716:2007)

## HZN/TO 555, Medicinski proizvodi

- **umjesto**

HRN EN ISO 15189:2012

Medicinski laboratoriji – Zahtjevi za kvalitetu i osposobljenost (ISO 15189:2012; EN ISO 15189:2012)  
Medical laboratories – Requirements for quality and competence (ISO 15189:2012; EN ISO 15189:2012)

- **treba biti**

HRN EN ISO 15189:2012

Medicinski laboratoriji – Zahtjevi za kvalitetu i osposobljenost (ISO 15189:2012, **ispravljena verzija 2014-08-15**; EN ISO 15189:2012)  
Medical laboratories – Requirements for quality and competence (ISO 15189:2012, **Corrected version 2014-08-15**; EN ISO 15189:2012)

- **umjesto**

HRN EN ISO 15223-1:2016

Medicinski proizvodi – Simboli za upotrebu u označivanju medicinskih proizvoda i informacijama uz medicinske proizvode – 1. dio: Opći zahtjevi (ISO 15223-1:2016; EN ISO 15223-1:2016)  
Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements (ISO 15223-1:2016; EN ISO 15223-1:2016)

- **treba biti**

HRN EN ISO 15223-1:2016

Medicinski proizvodi – Simboli za upotrebu u označivanju medicinskih proizvoda i informacijama uz medicinske proizvode – 1. dio: Opći zahtjevi (ISO 15223-1:2016, **ispravljena verzija 2017-03**; EN ISO 15223-1:2016)  
Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements (ISO 15223-1:2016, **Corrected version 2017-03**; EN ISO 15223-1:2016)

- **umjesto**

HRN EN ISO 80369-6:2016

Spojnici malog promjera za tekućine i plinove koji se upotrebljavaju u zdravstvu – 6. dio: Spojnici za neuroaksijalnu primjenu (ISO 80369-6:2016; EN ISO 80369-6:2016)  
Small bore connectors for liquids and gases in healthcare applications – Part 6: Connectors for neuraxial applications (ISO 80369-6:2016; EN ISO 80369-6:2016)

- **treba biti**

HRN EN ISO 80369-6:2016

Spojnici malog promjera za tekućine i plinove koji se upotrebljavaju u zdravstvu – 6. dio: Spojnici za neuroaksijalnu primjenu (ISO 80369-6:2016, **ispravljena verzija 2016-11-15**; EN ISO 80369-6:2016)  
Small bore connectors for liquids and gases in healthcare applications – Part 6: Connectors for neuraxial applications (ISO 80369-6:2016, **Corrected version 2016-11-15**; EN ISO 80369-6:2016)

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

- **umjesto**

HRN EN ISO 12311:2013

Osobna zaštitna oprema – Ispitne metode za sunčane naočale i očna pomagala (ISO 12311:2013; EN ISO 12311:2013)  
Personal protective equipment – Test methods for sunglasses and related eyewear (ISO 12311:2013; EN ISO 12311:2013)

- **treba biti**

HRN EN ISO 12311:2013

Osobna zaštitna oprema – Ispitne metode za sunčane naočale i očna pomagala (ISO 12311:2013, **ispravljena verzija 2014-08-15**; EN ISO 12311:2013)  
Personal protective equipment – Test methods for sunglasses and related eyewear (ISO 12311:2013, **Corrected version 2014-08-15**; EN ISO 12311:2013)

## HZN/TO 568, *Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom*

- **umjesto**

HRN EN ISO 11133:2014

Mikrobiologija hrane, hrane za životinje i vode – Priprema, proizvodnja, skladištenje i ispitivanje hranjive podloge (ISO 11133:2014; EN ISO 11133:2014)  
Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media (ISO 11133:2014; EN ISO 11133:2014)

- **treba biti**

HRN EN ISO 11133:2014

Mikrobiologija hrane, hrane za životinje i vode – Priprema, proizvodnja, skladištenje i ispitivanje hranjive podloge (ISO 11133:2014, **ispravljena verzija 2014-11-01**; EN ISO 11133:2014)  
Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media (ISO 11133:2014, **Corrected version 2014-11-01**; EN ISO 11133:2014)

## 1.10 **Prijevod hrvatskih normativnih dokumenata**

### HZN/TO 574, *Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama*

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN ISO 9000:2015 hr-en

pr-pp

Sustavi upravljanja kvalitetom – Temeljna načela i terminološki rječnik (ISO 9000:2015; EN ISO 9000:2015)  
Quality management systems – Fundamentals and vocabulary (ISO 9000:2015; EN ISO 9000:2015)

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

### **01.040.11 Tehnologija zdravstvene zaštite (Rječnici)**

**Međunarodna normizacija  
ISO**

ISO 19465:2017  
Traditional Chinese medicine – Categories of traditional Chinese medicine (TCM) clinical terminological systems

### **01.040.19 Ispitivanje (Rječnici)**

**Europska normizacija  
CEN**

EN ISO 5577:2017  
Non-destructive testing – Ultrasonic testing – Vocabulary (ISO 5577:2017)

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

**Europska normizacija  
CEN**

EN ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary (ISO 4885:2017)

EN ISO/ASTM 52900:2017  
Additive manufacturing – General principles – Terminology (ISO/ASTM 52900:2015)

**Međunarodna normizacija  
ISO**

ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary

ISO 14917:2017  
Thermal spraying – Terminology, classification

### **01.040.35 Informacijska tehnologija. Uredski strojevi (Rječnici)**

**Europska normizacija  
CEN**

EN ISO/IEC 27000:2017  
Information technology – Security techniques – Information security management systems – Overview and vocabulary (ISO/IEC 27000:2016)

**Međunarodna normizacija  
ISO/IEC**

ISO/IEC 2382-37:2017  
Information technology – Vocabulary – Part 37: Biometrics

### **01.040.65 Poljoprivreda (Rječnici)**

**Međunarodna normizacija  
ISO**

ISO 6531:2017  
Machinery for forestry – Portable chain-saws – Vocabulary

### **01.040.71 Kemijska tehnologija (Rječnici)**

**Međunarodna normizacija  
ISO**

ISO 26261-1:2017  
Fireworks – Category 4 – Part 1: Terminology

### **01.040.75 Tehnologija nafte i srodne tehnologije (Rječnici)**

**Europska normizacija  
CEN**

EN ISO 14532:2017  
Natural gas – Vocabulary (ISO 14532:2014)

### **01.040.77 Metalurgija (Rječnici)**

**Europska normizacija  
CEN**

EN ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary (ISO 4885:2017)

**Međunarodna normizacija  
ISO**

ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary

### **01.070 Kodiranje bojama**

**Europska normizacija  
CENELEC**

EN 61605:2017  
Fixed inductors for use in electronic and telecommunication equipment – Marking codes (IEC 61605:2016)

### **01.100.20 Crteži u strojarstvu**

**Europska normizacija  
CEN**

EN ISO 1660:2017  
Geometrical product specifications (GPS) – Geometrical tolerancing – Profile tolerancing (ISO 1660:2017)

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

**Europska normizacija  
CENELEC**

EN 61360-6:2017  
Standard data element types with associated classification scheme for electric components – Part 6: IEC Common Data Dictionary (IEC CDD) quality guidelines (IEC 61360-6:2016)

### **03.080.30 Usluge za potrošače**

**Međunarodna normizacija  
ISO**

ISO 24523:2017  
Service activities relating to drinking water supply systems and wastewater systems – Guidelines for benchmarking of water utilities

### **03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito**

**Međunarodna normizacija  
ISO**

ISO 44001:2017  
Collaborative business relationship management systems – Requirements and framework

### 03.100.70 Sustavi upravljanja

#### Europska normizacija CEN

- EN 9132:2017  
Aerospace series – Quality management systems – Data Matrix Quality Requirements for Parts Marking
- EN ISO/IEC 27000:2017  
Information technology – Security techniques – Information security management systems – Overview and vocabulary (ISO/IEC 27000:2016)
- EN ISO/IEC 27001:2017  
Information technology – Security techniques – Information security management systems – Requirements (ISO/IEC 27001:2013 including Cor 1:2014 and Cor 2:2015)

#### Međunarodna normizacija ISO

- ISO 44001:2017  
Collaborative business relationship management systems – Requirements and framework

### 03.120.10 Upravljanje kvalitetom i osiguravanje kvalitete

#### Europska normizacija CEN

- EN 9132:2017  
Aerospace series – Quality management systems – Data Matrix Quality Requirements for Parts Marking

### 03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti

#### Međunarodna normizacija IEC

- IECEE 01-S:2017  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) – IECEE Supplement to Harmonized Basic Rules IEC CA 01

### 03.120.30 Primjena statističkih metoda

#### Međunarodna normizacija ISO

- ISO 16355-2:2017  
Applications of statistical and related methods to new technology and product development process – Part 2: Non-quantitative approaches for the acquisition of voice of customer and voice of stakeholder
- ISO 16355-4:2017  
Applications of statistical and related methods to new technology and product development process – Part 4: Analysis of non-quantitative and quantitative Voice of Customer and Voice of Stakeholder
- ISO 16355-5:2017  
Applications of statistical and related methods to new technology and product development process – Part 5: Solution strategy
- ISO/TR 16355-8:2017  
Applications of statistical and related methods to new technology and product development process – Part 8: Guidelines for commercialization and life cycle
- ISO 22514-2:2017  
Statistical methods in process management – Capability and performance – Part 2: Process capability and performance of time-dependent process models

### 07.060 Geologija. Meteorologija. Hidrologija

#### Europska normizacija CEN

- EN 16870:2017  
Water quality – Guidance standard on determining the degree of modification of lake hydromorphology

### 07.100.30 Mikrobiologija hrane

#### Europska normizacija CEN

- EN ISO 18465:2017  
Microbiology of the food chain – Quantitative determination of emetic toxin (cereulide) using LC-MS/MS (ISO 18465:2017)

#### Međunarodna normizacija ISO

- ISO 6579-1:2017  
Microbiology of the food chain – Horizontal method for the detection, enumeration and serotyping of Salmonella – Part 1: Detection of Salmonella spp.

### 11.020.99 Ostale norme koje se odnose na zdravstvenu zaštitu općenito

#### Međunarodna normizacija ISO

- ISO 19465:2017  
Traditional Chinese medicine – Categories of traditional Chinese medicine (TCM) clinical terminological systems

### 11.040.20 Transfuzijska, infuzijska i injekcijska oprema

#### Europska normizacija CEN

- EN ISO 1135-3:2017  
Transfusion equipment for medical use – Part 3: Blood-taking sets for single use (ISO 1135-3:2016)

### 11.040.25 Šprice. Igle. Kateteri

#### Europska normizacija CENELEC

- EN 80369-5:2016/AC:2017  
Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications (IEC 80369-5:2016/COR1:2017)

#### Međunarodna normizacija ISO/IEC

- IEC 80369-5 Technical Corrigendum 1:2017  
Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications; Technical Corrigendum 1
- IEC 80369-5:2016/Corr.1:2017  
Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications

### 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

#### Europska normizacija CEN

- EN ISO 7198:2017  
Cardiovascular implants and extracorporeal systems – Vascular prostheses – Tubular vascular grafts and vascular patches (ISO 7198:2016)



## 11.040.55 Dijagnostička oprema

### Europska normizacija CEN

- EN ISO 11073-00103:2017  
Health informatics – Personal health device communication  
– Part 00103: Overview (ISO/IEEE 11073-00103:2015)
- EN ISO 11073-10441:2017  
Health informatics – Personal health device communication  
– Part 10441: Device specialization – Cardiovascular fitness  
and activity monitor (ISO/IEEE 11073-10441:2015)

## 11.080.01 Sterilizacija i dezinfekcija općenito

### Međunarodna normizacija ISO

- ISO 11138-1:2017  
Sterilization of health care products – Biological indicators  
– Part 1: General requirements
- ISO 11138-2:2017  
Sterilization of health care products – Biological indicators  
– Part 2: Biological indicators for ethylene oxide sterilization  
processes
- ISO 11138-3:2017  
Sterilization of health care products – Biological indicators  
– Part 3: Biological indicators for moist heat sterilization  
processes
- ISO 11138-4:2017  
Sterilization of health care products – Biological indicators  
– Part 4: Biological indicators for dry heat sterilization  
processes
- ISO 11138-5:2017  
Sterilization of health care products – Biological indicators  
– Part 5: Biological indicators for low-temperature steam and  
formaldehyde sterilization processes

## 11.080.30 Sterilizirani zavoji

### Europska normizacija CEN

- EN 868-2:2017  
Packaging for terminally sterilized medical devices – Part 2:  
Sterilization wrap – Requirements and test methods
- EN 868-3:2017  
Packaging for terminally sterilized medical devices – Part 3:  
Paper for use in the manufacture of paper bags (specified  
in EN 868-4) and in the manufacture of pouches and reels  
(specified in EN 868-5) – Requirements and test methods
- EN 868-4:2017  
Packaging for terminally sterilized medical devices – Part 4:  
Paper bags – Requirements and test methods
- EN 868-6:2017  
Packaging for terminally sterilized medical devices – Part 6:  
Paper for low temperature sterilization processes  
– Requirements and test methods
- EN 868-7:2017  
Packaging for terminally sterilized medical devices – Part 7:  
Adhesive coated paper for low temperature sterilization  
processes – Requirements and test methods

## 11.100.10 In vitro dijagnostički ispitni sustavi

### Europska normizacija CENELEC

- EN 61010-2-101:2017  
Safety requirements for electrical equipment for measurement,  
control and laboratory use – Part 2-101: Particular  
requirements for in vitro diagnostic (IVD) medical equipment  
(IEC 61010-2-101:2015)

## 11.180.01 Pomagala za osobe s invaliditetom općenito

### Europska normizacija ETSI

- EN 303406 V 1.1.1:2017  
Short Range Devices (SRD) – Social Alarms Equipment  
operating in the frequency range 25 MHz to 1000 MHz  
– Harmonised Standard covering the essential requirements  
of article 3.2 of Directive 2014/53/EU

## 13.020.10 Upravljanje okolišem

### Međunarodna normizacija ISO

- ISO 14052:2017-05-11  
Environmental management – Material flow cost accounting  
– Guidance for practical implementation in a supply chain

## 13.020.55 Proizvodi na biološkoj osnovi

### Europska normizacija CEN

- EN 16640:2017  
Bio-based products – Bio-based carbon content  
– Determination of the bio-based carbon content using the  
radiocarbon method

## 13.030.10 Kruti otpad

### Europska normizacija CEN

- EN 14405:2017  
Characterization of waste – Leaching behaviour test – Up-flow  
percolation test (under specified conditions)

## 13.040.20 Atmosfera okoliša

### Europska normizacija CEN

- EN 16846-1:2017  
Photocatalysis – Measurement of efficiency of photocatalytic  
devices used for the elimination of VOC and odour in indoor  
air in active mode – Part 1: Batch mode test method in closed  
chamber
- EN 16909:2017  
Ambient air – Measurement of elemental carbon (EC) and  
organic carbon (OC) collected on filters

### Međunarodna normizacija ISO

- ISO 12219-6:2017  
Interior air of road vehicles – Part 6: Method for the  
determination of the emissions of semi-volatile organic  
compounds from vehicle interior parts and materials at higher  
temperature – Small chamber method
- ISO 12219-7:2017  
Interior air of road vehicles – Part 7: Odour determination  
in interior air of road vehicles and test chamber air of trim  
components by olfactory measurements

## 13.040.30 Atmosfera u radnome prostoru

### Europska normizacija CEN

- CEN/TR 17055:2017  
Workplace exposure – Measurement of chemical agents  
complying with the requirements given in EN 482 and either  
one of EN 838, EN 1076, EN 13205, EN 13890 and EN 13936  
– Choice of procedures

### 13.060.20 Voda za piće

#### Međunarodna normizacija ISO

ISO 24523:2017  
Service activities relating to drinking water supply systems and wastewater systems – Guidelines for benchmarking of water utilities

### 13.060.30 Kanalizacijske vode

#### Međunarodna normizacija ISO

ISO 24523:2017  
Service activities relating to drinking water supply systems and wastewater systems – Guidelines for benchmarking of water utilities

### 13.060.45 Ispitivanje vode općenito (uključujući uzorkovanje)

#### Europska normizacija CEN

EN 16870:2017  
Water quality – Guidance standard on determining the degree of modification of lake hydromorphology

### 13.060.70 Ispitivanje bioloških svojstava vode

#### Europska normizacija CEN

EN 16859:2017  
Water quality – Guidance standard on monitoring freshwater pearl mussel (*Margaritifera margaritifera*) populations and their environment

### 13.080.01 Kvaliteta tla i pedologija općenito

#### Međunarodna normizacija ISO

ISO 19204:2017  
Soil quality – Procedure for site-specific ecological risk assessment of soil contamination (soil quality TRIAD approach)

### 13.080.10 Kemijske značajke tla

#### Međunarodna normizacija ISO

ISO 14869-3:2017  
Soil quality – Dissolution for the determination of total element content – Part 3: Dissolution with hydrofluoric, hydrochloric and nitric acids using pressurised microwave technique

### 13.080.20 Fizikalna svojstva tla

#### Međunarodna normizacija ISO

ISO 17892-5:2017  
Geotechnical investigation and testing – Laboratory testing of soil – Part 5: Incremental loading oedometer test

ISO 17892-6:2017  
Geotechnical investigation and testing – Laboratory testing of soil – Part 6: Fall cone test

### 13.180 Ergonomija

#### Europska normizacija CEN

EN ISO 9241-392:2017  
Ergonomics of human-system interaction – Part 392: Ergonomic recommendations for the reduction of visual fatigue from stereoscopic images (ISO 9241-392:2015)

EN ISO 20685-2:2017  
Ergonomics – 3-D scanning methodologies for internationally compatible anthropometric databases – Part 2: Evaluation protocol of surface shape and repeatability of relative landmark positions (ISO 20685-2:2015)

#### Međunarodna normizacija ISO

ISO 9241-112:2017  
Ergonomics of human-system interaction – Part 112: Principles for the presentation of information

ISO 15005:2017  
Road vehicles – Ergonomic aspects of transportation and control systems – Dialogue management principles and compliance procedures

ISO 15008:2017  
Road vehicles – Ergonomic aspects of transport information and control systems – Specifications and test procedures for in-vehicle visual presentation

### 13.220.20 Zaštita od požara

#### Europska normizacija CEN

EN 54-13:2017  
Fire detection and fire alarm systems – Part 13: Compatibility and connectability assessment of system components

#### Međunarodna normizacija ISO

ISO 6182-13:2017  
Fire protection – Automatic sprinkler systems – Part 13: Requirements and test methods for extended-coverage sprinklers

### 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

#### Europska normizacija CENELEC

EN 60695-8-1:2017  
Fire hazard testing – Part 8-1: Heat release – General guidance (IEC 60695-8-1:2016)

#### Međunarodna normizacija ISO

ISO 12992:2017  
Plastics – Vertical flame spread determination for film and sheet

#### IEC

IEC 60695-1-30:2017  
Fire hazard testing – Part 1-30: Guidance for assessing the fire hazard of electrotechnical products – Preselection testing process – General guidelines

### 13.260 Zaštita od električnog udara. Rad pod naponom

#### Europska normizacija CENELEC

EN 60855-1:2017  
Live working – Insulating foam-filled tubes and solid rods – Part 1: Tubes and rods of a circular cross-section (IEC 60855-1:2016)

### 13.320 Alarmni sustavi i sustavi uzbunjivanja

Europska normizacija  
CENELEC

EN 50134-7:2017  
Alarm systems – Social alarm systems – Part 7: Application guidelines

### 13.340.20 Zaštitna oprema za glavu

Europska normizacija  
CEN

EN 207:2017  
Personal eye-protection equipment – Filters and eye-protectors against laser radiation (laser eye-protectors)

### 13.340.99 Ostala zaštitna oprema

Europska normizacija  
CEN

EN 16716:2017  
Mountaineering equipment – Avalanche airbag systems – Safety requirements and test methods

### 17.040.10 Granične vrijednosti i prilagodbe

Europska normizacija  
CEN

EN ISO 1938-2:2017  
Geometrical product specifications (GPS) – Dimensional measuring equipment – Part 2: Reference disk gauges (ISO 1938-2:2017)

### 17.040.20 Svojstva površina

Europska normizacija  
CEN

EN 13523-1:2017  
Coil coated metals – Test methods – Part 1: Film thickness

### 17.040.40 Geometrijska specifikacija proizvoda (GPS)

Europska normizacija  
CEN

EN ISO 1101:2017  
Geometrical product specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out (ISO 1101:2017)

### 17.140.50 Elektroakustika

Europska normizacija  
CENELEC

EN 50332-3:2017  
Sound system equipment: headphones and earphones associated with personal music players – maximum sound pressure level measurement methodology – Part 3: measurement method for sound dose management

### 17.220.01 Elektricitet. Magnetizam. Opći aspekti

Europska normizacija  
CENELEC

EN 60404-15:2012/A1:2017  
Magnetic materials – Part 15: Methods for the determination of the relative magnetic permeability of feebly magnetic materials (IEC 60404-15:2012/A1:2016)

### 17.220.20 Mjerenje električnih i magnetskih veličina

Europska normizacija  
CENELEC

EN 61557-9:2015/AC:2017  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems (IEC 61557-9:2014/COR2:2017)

EN 62053-11:2003/A1:2017  
Electricity metering equipment (a.c.) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2) (IEC 62053-11:2003/A1:2016)

EN 62053-21:2003/A1:2017  
Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21:2003/A1:2016)

### 17.220.99 Ostale norme koje se odnose na elektricitet i magnetizam

Europska normizacija  
CENELEC

EN 60674-2:2017  
Specification for plastic films for electrical purposes – Part 2: Methods of test (IEC 60674-2:2016)

### 17.240 Mjerenja zračenja

Europska normizacija  
CENELEC

EN 61005:2017  
Radiation protection instrumentation – Neutron ambient dose equivalent (rate) meters (IEC 61005:2014, modified)

### 19.100 Nerazorna ispitivanja

Europska normizacija  
CEN

EN ISO 5577:2017  
Non-destructive testing – Ultrasonic testing – Vocabulary (ISO 5577:2017)

Međunarodna normizacija  
ISO

ISO 15708-1:2017  
Non-destructive testing – Radiation methods for computed tomography – Part 1: Terminology

ISO 15708-2:2017  
Non-destructive testing – Radiation methods for computed tomography – Part 2: Principles, equipment and samples

ISO 15708-3:2017  
Non-destructive testing – Radiation methods for computed tomography – Part 3: Operation and interpretation

ISO 16946:2017  
Non-destructive testing – Ultrasonic testing – Specification for step wedge calibration block

### 19.120 Analiza veličine čestica. Prosijavanje

Međunarodna normizacija  
ISO

ISO 22412:2017  
Particle size analysis – Dynamic light scattering (DLS)

## 21.100.10 Klizni ležajevi

### Međunarodna normizacija ISO

- ISO 3547-2:2017  
Plain bearings – Wrapped bushes – Part 2: Test data for outside and inside diameters
- ISO 3547-3:2017  
Plain bearings – Wrapped bushes – Part 3: Lubrication holes, grooves and indentations
- ISO 3547-4:2017  
Plain bearings – Wrapped bushes – Part 4: Materials

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija ISO

- ISO 14728-1:2017  
Rolling bearings – Linear motion rolling bearings – Part 1: Dynamic load ratings and rating life
- ISO 14728-2:2017  
Rolling bearings – Linear motion rolling bearings – Part 2: Static load ratings

## 23.020.35 Plinske boce

### Europska normizacija CEN

- EN 13807:2017  
Transportable gas cylinders – Battery vehicles and multiple-element gas containers (MEGCs) – Design, manufacture, identification and testing
- EN ISO 11114-1:2012/A1:2017  
Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 1: Metallic materials – Amendment 1 (ISO 11114-1:2012/Amd 1:2017)

## 23.020.40 Kriogeničke posude

### Europska normizacija CEN

- EN ISO 20421-2:2017  
Cryogenic vessels – Large transportable vacuum-insulated vessels – Part 2: Operational requirements (ISO 20421-2:2017)

### Međunarodna normizacija ISO

- ISO 20421-2:2017  
Cryogenic vessels – Large transportable vacuum-insulated vessels – Part 2: Operational requirements

## 23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

### Europska normizacija CEN

- EN 13480-5:2012/A2:2017  
Metallic industrial piping – Part 5: Inspection and testing
- EN ISO 15876-1:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 1: General (ISO 15876-1:2017)

## 23.040.20 Plastične cijevi

### Europska normizacija CEN

- EN ISO 15876-2:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 2: Pipes (ISO 15876-2:2017)

- EN ISO 15876-5:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 5: Fitness for purpose of the system (ISO 15876-5:2017)

## 23.040.45 Plastične spojnice

### Europska normizacija CEN

- EN ISO 15876-3:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 3: Fittings (ISO 15876-3:2017)

## 23.040.70 Crijeva i crijevni sklopovi

### Europska normizacija CEN

- EN 1762:2017  
Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) – Specification

### Međunarodna normizacija ISO

- ISO 6803:2017  
Rubber or plastics hoses and hose assemblies – Hydraulic-pressure impulse test without flexing
- ISO 12151-1 AMD 1:2017  
Connections for hydraulic fluid power and general use – Hose fittings – Part 1: Hose fittings with ISO 8434-3 O-ring face seal ends; Amendment 1

## 23.040.99 Ostali sastavni dijelovi za cjevovode

### Europska normizacija CEN

- EN 558:2017  
Industrial valves – Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems – PN and Class designated valves

## 23.060.01 Zaporni uređaji općenito

### Europska normizacija CEN

- EN ISO 28921-1:2017  
Industrial valves – Isolating valves for low-temperature applications – Part 1: Design, manufacturing and production testing (ISO 28921-1:2013)
- EN ISO 28921-2:2017  
Industrial valves – Isolating valves for low-temperature applications – Part 2: Type testing (ISO 28921-2:2015)

### Međunarodna normizacija ISO

- ISO 15848-1 AMD 1:2017  
Industrial valves – Measurement, test and qualification procedures for fugitive emissions – Part 1: Classification system and qualification procedures for type testing of valves; Amendment 1

## 23.060.10 Ventili

### Europska normizacija CEN

- EN 558:2017  
Industrial valves – Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems – PN and Class designated valves



## 23.100.40 Cijevovodi i spojnice

Međunarodna normizacija  
ISO

ISO 12151-1 AMD 1:2017  
Connections for hydraulic fluid power and general use – Hose fittings – Part 1: Hose fittings with ISO 8434-3 O-ring face seal ends; Amendment 1

## 25.030 Proizvodnja aditiva

Europska normizacija  
CEN

EN ISO/ASTM 52900:2017  
Additive manufacturing – General principles – Terminology (ISO/ASTM 52900:2015)

EN ISO/ASTM 52915:2017  
Specification for additive manufacturing file format (AMF) Version 1.2 (ISO/ASTM 52915:2016)

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

Europska normizacija  
CENELEC

EN 61987-15:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 15: Lists of properties (LOPs) for level measuring equipment for electronic data exchange (IEC 61987-15:2016)

## 25.100.01 Alati za rezanje općenito

Međunarodna normizacija  
ISO

ISO 1832:2017  
Indexable inserts for cutting tools – Designation

## 25.100.30 Svrkla, upuštači, razvrtači

Međunarodna normizacija  
ISO

ISO 494:2017  
Cylindrical shank twist drills – Long series

ISO 2250:2017  
Finishing reamers for Morse and metric tapers, with cylindrical shanks and Morse taper shanks

ISO 5468:2017  
Rotary and rotary impact masonry drill bits with hardmetal tips – Dimensions

## 25.100.50 Ureznici i kalupi za navoje

Međunarodna normizacija  
ISO

ISO 2284:2017  
Hand taps for parallel and taper pipe threads – General dimensions and marking

## 25.140.20 Električni alati

Međunarodna normizacija  
IEC

IEC 62841-2-10:2017  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-10: Particular requirements for hand-held mixers

IEC 62841-3-13:2017  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-13: Particular requirements for transportable drills

## 25.140.30 Ručno pokretani alati

Međunarodna normizacija  
ISO

ISO 6789-1:2017  
Assembly tools for screws and nuts – Hand torque tools – Part 1: Requirements and methods for design conformance testing and quality conformance testing: minimum requirements for declaration of conformance

ISO 6789-2:2017  
Assembly tools for screws and nuts – Hand torque tools – Part 2: Requirements for calibration and determination of measurement uncertainty

## 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

Europska normizacija  
CEN

CEN ISO/TR 15608:2017  
Welding – Guidelines for a metallic materials grouping system (ISO/TR 15608:2017)

## 25.160.10 Procesi zavarivanja

Europska normizacija  
CEN

EN 14730-1:2017  
Railway applications – Track – Aluminothermic welding of rails – Part 1: Approval of welding processes

EN ISO 9013:2017  
Thermal cutting – Classification of thermal cuts – Geometrical product specification and quality tolerances (ISO 9013:2017)

## 25.160.20 Dodatni i potrošni materijali za zavarivanje

Međunarodna normizacija  
ISO

ISO 20378:2017  
Welding consumables – Rods for gas welding of non-alloy and creep-resisting steels – Classification

## 25.160.30 Oprema za zavarivanje

Međunarodna normizacija  
IEC

IEC 60974-1:2017  
Arc welding equipment – Part 1: Welding power sources

## 25.200 Toplinska obradba

Europska normizacija  
CEN

EN ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary (ISO 4885:2017)

Međunarodna normizacija  
ISO

ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary

## 25.220.10 Priprema površina

### Europska normizacija CEN

EN ISO 8502-2:2017  
Preparation of steel substrates before application of paints and related products – Tests for the assessment of surface cleanliness – Part 2: Laboratory determination of chloride on cleaned surfaces (ISO 8502-2:2017)

EN ISO 8502-3:2017  
Preparation of steel substrates before application of paints and related products – Tests for the assessment of surface cleanliness – Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method) (ISO 8502-3:2017)

EN ISO 8502-4:2017  
Preparation of steel substrates before application of paints and related products – Tests for the assessment of surface cleanliness – Part 4: Guidance on the estimation of the probability of condensation prior to paint application (ISO 8502-4:2017)

### Međunarodna normizacija ISO

ISO 8503-5:2017  
Preparation of steel substrates before application of paints and related products – Surface roughness characteristics of blast-cleaned steel substrates – Part 5: Replica tape method for the determination of the surface profile

## 25.220.20 Površinska obrada

### Europska normizacija CEN

EN 16845-1:2017  
Photocatalysis – Anti-soiling chemical activity using adsorbed organics under solid/solid conditions – Part 1: Dyes on porous surfaces

### Međunarodna normizacija ISO

ISO 14916:2017  
Thermal spraying – Determination of tensile adhesive strength

ISO 14917:2017  
Thermal spraying – Terminology, classification

## 25.220.40 Metalne prevlake

### Europska normizacija CEN

EN ISO 8401:2017  
Metallic coatings – Review of methods of measurement of ductility (ISO 8401:2017)

## 25.220.50 Emajli

### Međunarodna normizacija ISO

ISO 28706-2:2017  
Vitreous and porcelain enamels – Determination of resistance to chemical corrosion – Part 2: Determination of resistance to chemical corrosion by boiling acids, boiling neutral liquids, alkaline liquids and/or their vapours

## 25.220.60 Organske prevlake

### Europska normizacija CEN

EN 13523-1:2017  
Coil coated metals – Test methods – Part 1: Film thickness

EN 13523-10:2017  
Coil coated metals – Test methods – Part 10: Resistance to fluorescent UV radiation and water condensation

EN 13523-22:2017  
Coil coated metals – Test methods – Part 22: Colour difference – Visual comparison

## 27.020 Motori s unutrašnjim izgaranjem

### Međunarodna normizacija ISO

ISO 11424:2017  
Rubber hoses and tubing for air and vacuum systems for internal-combustion engines – Specification

## 27.160 Solarna energetika

### Europska normizacija CENELEC

EN 61215-2:2017  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures (IEC 61215-2:2016)

IEC 62670-3:2017  
Photovoltaic concentrators (CPV) – Performance testing – Part 3: Performance measurements and power rating

## 27.190 Biološki izvori i alternativni izvori energije

### Europska normizacija CEN

EN ISO 18134-2:2017  
Solid biofuels – Determination of moisture content – Oven dry method – Part 2: Total moisture – Simplified method (ISO 18134-2:2017)

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

EN 60695-8-1:2017  
Fire hazard testing – Part 8-1: Heat release – General guidance (IEC 60695-8-1:2016)

### Međunarodna normizacija IEC

IEC 60695-1-30:2017  
Fire hazard testing – Part 1-30: Guidance for assessing the fire hazard of electrotechnical products – Preselection testing process – General guidelines

## 29.030 Magnetni materijali

### Europska normizacija CENELEC

EN 60404-1:2017  
Magnetic materials – Part 1: Classification (IEC 60404-1:2016)

EN 60404-15:2012/A1:2017  
Magnetic materials – Part 15: Methods for the determination of the relative magnetic permeability of feebly magnetic materials (IEC 60404-15:2012/A1:2016)

EN 61332:2017  
Soft ferrite material classification (IEC 61332:2016)

## **29.035.20 Plastični i gumeni izolacijski materijali**

**Europska normizacija**  
**CENELEC**

EN 60674-2:2017  
Specification for plastic films for electrical purposes – Part 2: Methods of test (IEC 60674-2:2016)

## **29.080.30 Izolacijski sustavi**

**Međunarodna normizacija**  
**IEC**

IEC 60034-18-42:2017  
Rotating electrical machines – Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters – Qualification tests

## **29.100.10 Magnetski sastavni dijelovi**

**Europska normizacija**  
**CENELEC**

EN 61332:2017  
Soft ferrite material classification (IEC 61332:2016)

## **29.100.20 Električki i elektromehanički sastavni dijelovi**

**Europska normizacija**  
**CENELEC**

EN 61360-6:2017  
Standard data element types with associated classification scheme for electric components – Part 6: IEC Common Data Dictionary (IEC CDD) quality guidelines (IEC 61360-6:2016)

## **29.120.40 Sklopke**

**Međunarodna normizacija**  
**IEC**

IEC 60669-1:2017  
Switches for household and similar fixed-electrical installations – Part 1: General requirements

## **29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu**

**Europska normizacija**  
**CENELEC**

EN 60127-5:2017  
Miniature fuses – Part 5: Guidelines for quality assessment of miniature fuse-links (IEC 60127-5:2016)

EN 61643-351:2017  
Components for low-voltage surge protective devices – Part 351: Performance requirements and test methods for telecommunications and signalling network surge isolation transformers (SIT) (IEC 61643-351:2016)

**Međunarodna normizacija**  
**IEC**

IEC 62606:2013/A1:2017  
General requirements for arc fault detection devices; Amendment 1

IEC 62606 Edition 1.1:2017  
General requirements for arc fault detection devices; Amendment 1

## **29.130.20 Niskonaponski rasklopni i upravljački uređaji**

**Europska normizacija**  
**CENELEC**

EN 50152-3-1:2017  
Railway applications – Fixed installations – Particular requirements for a.c. switchgear – Part 3-1: Measurement, control and protection devices for specific use in a.c. traction systems – Devices

EN 60947-5-5:1997/A2:2017  
Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function (IEC 60947-5-5:1997/A2:2016)

## **29.140.40 Rasvjetna tijela**

**Europska normizacija**  
**CENELEC**

EN 61995-2:2009/A1:2017  
Devices for the connection of luminaires for household and similar purposes – Part 2: Standard sheets for DCL (IEC 61995-2:2009/A1:2016)

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

**Europska normizacija**  
**CENELEC**

EN 62922:2017  
Organic light emitting diode (OLED) panels for general lighting – Performance Requirements (IEC 62922:2016)

## **29.160.01 Rotacijski strojevi općenito**

**Međunarodna normizacija**  
**IEC**

IEC 60034-18-42:2017  
Rotating electrical machines – Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters – Qualification tests

## **29.160.40 Električni agregati**

**Europska normizacija**  
**CENELEC**

EN 62040-5-3:2017  
Uninterruptible power systems (UPS) – Part 5-3: DC output UPS – Performance and test requirements (IEC 62040-5-3:2016)

## **29.180 Transformatori. Prigušnice**

**Europska normizacija**  
**CENELEC**

EN 61605:2017  
Fixed inductors for use in electronic and telecommunication equipment – Marking codes (IEC 61605:2016)

## **29.200 Ispravljači. Pretvarači. Stabilizirano napajanje**

**Europska normizacija**  
**CENELEC**

EN 62040-5-3:2017  
Uninterruptible power systems (UPS) – Part 5-3: DC output UPS – Performance and test requirements (IEC 62040-5-3:2016)

EN 62477-1:2012/A1:2017  
Safety requirements for power electronic converter systems and equipment – Part 1: General (IEC 62477-1:2012/A1:2016)

## Međunarodna normizacija IEC

IEC 61800-3:2017  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods

### 29.220.20 Kiseli sekundarni članci i baterije

#### Međunarodna normizacija IEC

IEC TR 62660-4:2017  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 4: Candidate alternative test methods for the internal short circuit test of IEC 62660-3

### 29.220.30 Alkalni sekundarni članci i baterije

#### Međunarodna normizacija IEC

IEC 61960-3:2017  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications – Part 3: Prismatic and cylindrical lithium secondary cells and batteries made from them

IEC 62133-1:2017  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 1: Nickel systems

IEC 62133-2:2017  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems

IEC 62619:2017  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications

### 29.240.20 Vodovi za prijenos i razdiobu električne energije

#### Europska normizacija CENELEC

EN 50341-2-5:2017  
Overhead electrical lines exceeding AC 1 kV – Part 2-5: National Normative Aspects (NNA) for DENMARK (based on EN 50341-1:2012)

EN 50341-2-6:2017  
Overhead electrical lines exceeding AC 1 kV – Part 2-6: National Normative Aspects (NNA) for SPAIN (based on EN 50341-1:2012)

#### Međunarodna normizacija IEC

IEC 60826:2017  
Design criteria of overhead transmission lines

### 29.260.20 Električni uređaji za eksplozivnu atmosferu

#### Međunarodna normizacija IEC

IECEx 03A:2017  
IECEx certified equipment scheme covering equipment for use in explosive atmospheres – Guidance for Application from Service Facilities seeking IECEx Certification

IEC 60079-14:2013/ISH1:2017  
Explosive atmospheres – Part 14: Electrical installations design, selection and erection; Interpretation Sheet 1

### 29.280 Oprema za električnu vuču

#### Europska normizacija CENELEC

EN 50152-3-1:2017  
Railway applications – Fixed installations – Particular requirements for a.c. switchgear – Part 3-1: Measurement, control and protection devices for specific use in a.c. traction systems – Devices

### 31.020 Elektronički sastavni dijelovi općenito

#### Europska normizacija CENELEC

EN 61360-6:2017  
Standard data element types with associated classification scheme for electric components – Part 6: IEC Common Data Dictionary (IEC CDD) quality guidelines (IEC 61360-6:2016)

#### Međunarodna normizacija IEC

IEC 61709:2017  
Electric components – Reliability – Reference conditions for failure rates and stress models for conversion

### 31.080.20 Tiristori

#### Europska normizacija CENELEC

EN 60700-1:2015/AC:2017  
Thyristor valves for high voltage direct current (HVDC) power transmission – Part 1: Electrical testing (IEC 60700-1:2015/COR1:2017)

EN 61975:2010/A1:2017  
High-voltage direct current (HVDC) installations – System tests (IEC 61975:2010/A1:2016)

### 31.080.99 Ostale poluvodičke naprave

#### Europska normizacija CENELEC

EN 62477-1:2012/A1:2017  
Safety requirements for power electronic converter systems and equipment – Part 1: General (IEC 62477-1:2012/A1:2016)

#### Međunarodna normizacija IEC

IEC 60747-16-1:2001/A2:2017  
Semiconductor devices – Part 16-1: Microwave integrated circuits – Amplifiers; Amendment 2

IEC 60747-16-1 Edition1.2:2017  
Semiconductor devices – Part 16-1: Microwave integrated circuits – Amplifiers

### 31.200 Integrirani krugovi. Mikroelektronika

#### Europska normizacija CENELEC

EN 62228-2:2017  
Integrated circuits – EMC evaluation of transceivers – Part 2: LIN transceivers (IEC 62228-2:2016)



## 31.220.10 Utikačke i utičničke naprave. Konektori

### Međunarodna normizacija IEC

IEC 61076-2-113:2017

Connectors for electronic equipment – Product requirements – Part 2-113: Circular connectors – Detail specification for connectors with M12 screw locking with power and signal contacts for data transmission with frequency up to 100 MHz

## 31.260 Optoelektronika. Laserska oprema

### Europska normizacija CENELEC

EN 62922:2017

Organic light emitting diode (OLED) panels for general lighting – Performance Requirements (IEC 62922:2016)

## 33.020 Telekomunikacije općenito

### Europska normizacija ETSI

EN 303406 V 1.1.1:2017

Short Range Devices (SRD) – Social Alarms Equipment operating in the frequency range 25 MHz to 1000 MHz – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

## 33.040.01 Telekomunikacijski sustavi općenito

### Europska normizacija ETSI

ETSI ES 202738 V 1.6.1:2017

Speech and multimedia Transmission Quality (STQ) – Transmission requirements for narrowband VoIP loudspeaking and handsfree terminals from a QoS perspective as perceived by the user

ETSI ES 202740 V 1.6.1:2017

Speech and multimedia Transmission Quality (STQ) – Transmission requirements for wideband VoIP loudspeaking and handsfree terminals from a QoS perspective as perceived by the user

## 33.050.01 Telekomunikacijska terminalna oprema općenito

### Europska normizacija ETSI

EN 303406 V 1.1.1:2017

Short Range Devices (SRD) – Social Alarms Equipment operating in the frequency range 25 MHz to 1000 MHz – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

## 33.060.20 Prijamna i odašiljačka oprema

### Europska normizacija ETSI

EN 300220-1 V 3.1.1:2017

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 1: Technical characteristics and methods of measurement

EN 300220-2 V 3.1.1:2017

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment

EN 300220-3-2 V 1.1.1:2017

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz

EN 300220-4 V 1.1.1:2017

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 4: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Metering devices operating in designated band 169,400 MHz to 169,475 MHz

EN 300338-1 V 1.4.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 1: Common requirements

EN 300338-2 V 1.4.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 2: Class A/B DSC

EN 300338-3 V 1.2.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 3: Class D DSC

EN 300338-4 V 1.2.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 4: Class E DSC

EN 300338-5 V 1.2.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 5: Handheld VHF Class H DSC

EN 300338-6 V 1.1.1:2017

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 6: Class M DSC

EN 301091-3 V 1.1.1:2017

Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Part 3: Railway/Road Crossings obstacle detection system applications

EN 301489-4 V 3.1.1:2017

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 4: Specific conditions for fixed radio links and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-50 V 2.1.1:2017

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301929 V 2.1.1:2017

VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 302194 V 2.1.1:2017

Navigation radar used on inland waterways – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 302885 V 2.2.1:2017

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU

EN 303132 V 1.1.1:2017  
Maritime low power VHF personal locating beacons employing Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 303360 V 1.1.1:2017  
Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Obstacle Detection Radars for Use on Manned Rotorcraft

### 33.060.40 Kabelski distribucijski sustavi

#### Europska normizacija ETSI

ETSI TS 103311-1 V 1.1.1:2017  
Integrated broadband cable telecommunication networks (CABLE) – Fourth Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 1: General – DOCSIS® 3.1

ETSI TS 103311-2 V 1.1.1:2017  
Integrated broadband cable telecommunication networks (CABLE) – Fourth Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 2: Physical Layer – DOCSIS® 3.1

ETSI TS 103311-3 V 1.1.1:2017  
Integrated broadband cable telecommunication networks (CABLE) – Fourth Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems – Part 3: MAC and Upper Layer Protocols Interface – DOCSIS® 3.1

### 33.060.99 Ostala oprema za radiokomunikacije

#### Europska normizacija ETSI

EN 300330 V 2.1.1:2017  
Short Range Devices (SRD) – Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 301025 V 2.2.1:2017  
VHF radiotelephone equipment for general communications and associated equipment for Class 'D' Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU

### 33.070.50 Globalni sustavi za pokretne komunikacije (GSM)

#### Europska normizacija ETSI

ETSI TS 125306 V 13.2.0:2017  
Universal Mobile Telecommunications System (UMTS) – UE Radio Access capabilities (3GPP TS 25.306 version 13.2.0 Release 13)

ETSI TS 125321 V 13.3.0:2017  
Universal Mobile Telecommunications System (UMTS) – Medium Access Control (MAC) protocol specification (3GPP TS 25.321 version 13.3.0 Release 13)

ETSI TS 125331 V 12.12.0:2017  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 12.12.0 Release 12)

ETSI TS 125331 V 13.5.0:2017  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 13.5.0 Release 13)

ETSI TS 126445 V 12.9.0:2017  
Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 12.9.0 Release 12)

ETSI TS 126445 V 13.4.0:2017  
Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 13.4.0 Release 13)

ETSI TS 129153 V 13.3.0:2017  
Universal Mobile Telecommunications System (UMTS) – LTE – Service capability exposure functionality over Ns reference point (3GPP TS 29.153 version 13.3.0 Release 13)

ETSI TS 129343 V 13.4.0:2017  
Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) function to ProSe application server aspects (PC2) – Stage 3 (3GPP TS 29.343 version 13.4.0 Release 13)

ETSI TS 131121 V 13.5.0:2017  
Universal Mobile Telecommunications System (UMTS) – LTE – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 13.5.0 Release 13)

ETSI TS 134121-2 V 12.5.0:2017  
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 34.121-2 version 12.5.0 Release 12)

ETSI TS 136211 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical channels and modulation (3GPP TS 36.211 version 13.4.0 Release 13)

ETSI TS 136213 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer procedures (3GPP TS 36.213 version 13.4.0 Release 13)

ETSI TS 136300 V 13.6.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 13.6.0 Release 13)

ETSI TS 136302 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 13.4.0 Release 13)

ETSI TS 136304 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 13.4.0 Release 13)

ETSI TS 136306 V 11.14.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 11.14.0 Release 11)

ETSI TS 136306 V 12.11.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 12.11.0 Release 12)

ETSI TS 136306 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 13.4.0 Release 13)

ETSI TS 136321 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 13.4.0 Release 13)

ETSI TS 136323 V 13.4.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 36.323 version 13.4.0 Release 13)

ETSI TS 136331 V 10.20.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 10.20.0 Release 10)

ETSI TS 136331 V 11.17.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 11.17.0 Release 11)

ETSI TS 136355 V 13.3.0:2017  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
– LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 13.3.0 Release 13)

ETSI TS 144065 V 13.1.1:2017  
Digital cellular telecommunications system (Phase 2+) (GSM)  
– Mobile Station (MS) – Serving GPRS Support Node (SGSN)  
– Subnetwork Dependent Convergence Protocol (SNDNCP)  
(3GPP TS 44.065 version 13.1.1 Release 13)

ETSI TS 151021 V 13.3.1:2017  
Digital cellular telecommunications system (Phase 2+) (GSM)  
– Base Station System (BSS) equipment specification – Radio aspects (3GPP TS 51.021 version 13.3.1 Release 13)

ETSI TS 155241 V 13.0.0:2017  
Digital cellular telecommunications system (Phase 2+) (GSM) – Specification of the GIA4 integrity algorithm for General Packet Radio Service (GPRS) – GIA4 specification (3GPP TS 55.241 version 13.0.0 Release 13)

ETSI TS 155251 V 13.0.0:2017  
Digital cellular telecommunications system (Phase 2+) (GSM) – Specification of the GEA5 encryption and GIA5 integrity algorithms for General Packet Radio Service (GPRS) – GEA5 and GIA5 algorithm specification (3GPP TS 55.251 version 13.0.0 Release 13)

### 33.070.99 Ostale pokretne službe

#### Europska normizacija ETSI

EN 301025 V 2.2.1:2017  
VHF radiotelephone equipment for general communications and associated equipment for Class 'D' Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU

### 33.100.01 Elektromagnetska kompatibilnost općenito

#### Europska normizacija ETSI

EN 300330 V 2.1.1:2017  
Short Range Devices (SRD) – Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

#### Međunarodna normizacija IEC

IEC 61800-3:2017  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods

### 33.100.10 Zračenje

#### Europska normizacija CENELEC

EN 55025:2017  
Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers (CISPR 25:2016)

#### ETSI

EN 300220-1 V 3.1.1:2017  
Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 1: Technical characteristics and methods of measurement

EN 300220-2 V 3.1.1:2017  
Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment

EN 300220-3-2 V 1.1.1:2017  
Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz

EN 301489-4 V 3.1.1:2017  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 4: Specific conditions for fixed radio links and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-17 V 3.1.1:2017  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 17: Specific conditions for Broadband Data Transmission Systems – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-33 V 2.1.1:2017  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 33: Specific conditions for Ultra-WideBand (UWB) devices – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

ETSI TR 103333 V 1.1.1:2017  
System Reference document (SRDoc) – GSM-R networks evolution

ETSI TR 103435 V 1.1.1:2017  
System Reference document (SRdoc) – Short Range Devices (SRD) – Technical characteristics for Ultra Narrow Band (UNB) SRDs operating in the UHF spectrum below 1 GHz

### 33.100.20 Otpornost

#### Europska normizacija CENELEC

EN 61000-4-31:2017  
Electromagnetic compatibility (EMC) – Part 4-31: Testing and measurement techniques – AC mains ports broadband conducted disturbance immunity test (IEC 61000-4-31:2016)

EN 62228-2:2017  
Integrated circuits – EMC evaluation of transceivers – Part 2: LIN transceivers (IEC 62228-2:2016)

EN 301489-1 V 2.1.1:2017  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

### 33.120.10 Koaksijalni kabeli. Valovodi

#### Europska normizacija CENELEC

EN 60153-1:2016/AC:2017  
Hollow metallic waveguides – Part 1: General requirements and measuring methods (IEC 60153-1:2016)

EN 60153-2:2016/AC:2017  
Hollow metallic waveguides – Part 2: Relevant specifications for ordinary rectangular waveguides (IEC 60153-2:2016)

### 33.160.50 Pribor

#### Europska normizacija CENELEC

EN 50332-3:2017  
Sound system equipment: headphones and earphones associated with personal music players – maximum sound pressure level measurement methodology – Part 3: measurement method for sound dose management

## ETSI

EN 300422-2 V 2.1.1:2017  
Wireless Microphones – Audio PMSE up to 3 GHz – Part 2:  
Class B Receivers – Harmonised Standard covering the  
essential requirements of article 3.2 of Directive 2014/53/EU

EN 300422-3 V 2.1.1:2017  
Wireless Microphones – Audio PMSE up to 3 GHz – Part 3:  
Class C Receivers – Harmonised Standard covering the  
essential requirements of article 3.2 of Directive 2014/53/EU

## 33.170 Televizijski i radijski prijenos

### Europska normizacija

#### ETSI

ETSI TS 101154 V 2.3.1:2017  
Digital Video Broadcasting (DVB) – Specification for the use of  
Video and Audio Coding in Broadcasting Applications based  
on the MPEG-2 Transport Stream

ETSI GS CCM 001 V 1.1.1:2017  
Compound Content Management Specification

## 33.180.10 Svjetlovodna vlakna i kabeli

### Međunarodna normizacija

#### IEC

IEC 60793-1-60:2017  
Optical fibres – Part 1-60: Measurement methods and test  
procedures – Beat length

IEC 60793-1-61:2017  
Optical fibres – Part 1-61: Measurement methods and test  
procedures – Polarization crosstalk

IEC 60793-2-70:2017  
Optical fibres – Part 2-70: Product specifications – Sectional  
specification for polarization-maintaining fibres

## 33.180.99 Ostala svjetlovodna oprema

### Europska normizacija

#### CENELEC

EN 61757-1-1:2017  
Fibre optic sensors – Part 1-1: Strain measurement – Strain  
sensors based on fibre Bragg gratings (IEC 61757-1-1:2016)

## 35.020 Informacijska tehnologija (IT) općenito

### Europska normizacija

#### CENELEC

EN 50600-4-2:2016/AC:2017  
Information technology – Data centre facilities and  
infrastructures – Part 4-2: Power Usage Effectiveness

## 35.030 Sigurnost u informacijskoj tehnologiji

### Europska normizacija

#### CENELEC

EN 62351-11:2017  
Power systems management and associated information  
exchange – Data and communications security – Part 11:  
Security for XML documents (IEC 62351-11:2016)

EN ISO/IEC 27000:2017  
Information technology – Security techniques – Information  
security management systems – Overview and vocabulary  
(ISO/IEC 27000:2016)

EN ISO/IEC 27001:2017  
Information technology – Security techniques – Information  
security management systems – Requirements  
(ISO/IEC 27001:2013 including Cor 1:2014 and Cor 2:2015)

EN ISO/IEC 27002:2017  
Information technology – Security techniques – Code of  
practice for information security controls (ISO/IEC 27002:2013  
including Cor 1:2014 and Cor 2:2015)

## ETSI

ETSI GR QSC 003 V 1.1.1:2017  
Quantum Safe Cryptography – Case Studies and Deployment  
Scenarios

## 35.040.40 Kodiranje audioinformacija, videoinformacija, multimedijjskih i hipermedijjskih informacija

### Međunarodna normizacija

#### ISO/IEC

ISO/IEC 14496-15:2017  
Information technology – Coding of audio-visual objects  
– Part 15: Carriage of network abstraction layer (NAL) unit  
structured video in the ISO base media file format

ISO/IEC 23008-5:2017  
Information technology – High efficiency coding and media  
delivery in heterogeneous environments – Part 5: Reference  
software for high efficiency video coding

ISO/IEC 23009-5:2017  
Information technology – Dynamic adaptive streaming over  
HTTP (DASH) – Part 5: Server and network assisted DASH  
(SAND)

## 35.080 Softver (programaska podrška)

### Međunarodna normizacija

#### ISO/IEC

ISO/IEC 20246:2017  
Software and systems engineering – Work product reviews

ISO/IEC TR 29110-5-1-3:2017  
Systems and software engineering – Lifecycle profiles for  
Very Small Entities (VSEs) – Part 5-1-3: Software engineering  
– Management and engineering guide: Generic profile group  
– Intermediate profile

## 35.100.20 Sloj veze između podataka

### Europska normizacija

#### CENELEC

EN 61987-15:2017  
Industrial-process measurement and control – Data structures  
and elements in process equipment catalogues – Part 15:  
Lists of properties (LOPs) for level measuring equipment for  
electronic data exchange (IEC 61987-15:2016)

## 35.110 Umrežavanje

### Europska normizacija

#### CENELEC

EN 50600-4-2:2016/AC:2017  
Information technology – Data centre facilities and  
infrastructures – Part 4-2: Power Usage Effectiveness

## ETSI

ETSI TR 103495 V 1.1.1:2017  
Network Technologies (NTECH) – Autonomic network  
engineering for the self-managing Future Internet (AFI)  
– Autonomicity and Self-Management in Wireless Ad-hoc/  
Mesh Networks: Autonomicity-enabled Ad-hoc and Mesh  
Network Architectures

ETSI GR NFV-IFA 016 V 2.1.1:2017  
Network Functions Virtualisation (NFV) Release 2  
– Information Modeling – Papyrus Guidelines

ETSI GR NFV-IFA 017 V 2.1.1:2017  
Network Functions Virtualisation (NFV) Release 2  
– Information Modeling – UML Modeling Guidelines



ETSI GR NFV-IFA 024 V 2.1.1:2017  
Network Function Virtualisation (NFV) Release 2 – Information Modeling – Report on External Touchpoints related to NFV Information Model

ETSI GR NFV-TST 005 V 3.1.1:2017  
Network Functions Virtualisation (NFV) – Continuous Development and Integration – Report on use cases and recommendations for VNF Snapshot

ETSI GS NFV-SEC 013 V 3.1.1:2017  
Network Functions Virtualisation (NFV) Release 3 – Security – Security Management and Monitoring specification

#### **Međunarodna normizacija ISO/IEC**

ISO/IEC/IEEE 18882:2017  
Information technology – Telecommunications and information exchange between systems – Ubiquitous green community control network: Heterogeneous networks convergence and scalability

### **35.160 Mikroprocesorski sustavi**

#### **Europska normizacija CENELEC**

EN 50600-4-2:2016/AC:2017  
Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness

EN 61784-3-18:2011/A1:2017  
Industrial communication networks – Profiles – Part 3-18: Functional safety fieldbuses – Additional specifications for CPF 18 (IEC 61784-3-18:2011/A1:2016)

### **35.180 Terminalna i druga vanjska oprema informacijske tehnologije**

#### **Međunarodna normizacija ISO**

ISO 9241-112:2017  
Ergonomics of human-system interaction – Part 112: Principles for the presentation of information

### **35.200 Sučelna i spojna oprema**

#### **Međunarodna normizacija ISO/IEC**

ISO/IEC 14776-262:2017  
Information technology – Small computer system interface (SCSI) – Part 262: SAS protocol layer – 2 (SPL-2)

### **35.240.15 Identifikacijske kartice i pripadajuće naprave**

#### **Europska normizacija ETSI**

ETSI TS 102221 V 13.2.0:2017  
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 13)

ETSI TS 102221 V 14.0.0:2017  
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 14)

#### **Međunarodna normizacija ISO/IEC**

ISO/IEC 2382-37:2017  
Information technology – Vocabulary – Part 37: Biometrics

### **35.240.20 Primjene IT-a u uredskom poslovanju**

#### **Međunarodna normizacija ISO/IEC**

ISO/IEC 30122-2:2017  
Information technology – User interfaces – Voice commands – Part 2: Constructing and testing

ISO/IEC 30122-3:2017  
Information technology – User interfaces – Voice commands – Part 3: Translation and localization

### **35.240.50 Primjene IT-a u industriji**

#### **Europska normizacija CEN**

EN ISO/ASTM 52915:2017  
Specification for additive manufacturing file format (AMF) Version 1.2 (ISO/ASTM 52915:2016)

#### **CENELEC**

EN 61784-3-18:2011/A1:2017  
Industrial communication networks – Profiles – Part 3-18: Functional safety fieldbuses – Additional specifications for CPF 18 (IEC 61784-3-18:2011/A1:2016)

EN 61987-15:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 15: Lists of properties (LOPs) for level measuring equipment for electronic data exchange (IEC 61987-15:2016)

EN 62351-11:2017  
Power systems management and associated information exchange – Data and communications security – Part 11: Security for XML documents (IEC 62351-11:2016)

### **35.240.60 Primjene IT-a u prijevozu i trgovini**

#### **Europska normizacija ETSI**

EN 302571 V 2.1.1:2017  
Intelligent Transport Systems (ITS) – Radiocommunications equipment operating in the 5855 MHz to 5925 MHz frequency band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

### **35.240.80 Primjene IT-a u tehnologiji zaštite zdravlja**

#### **Europska normizacija CEN**

EN ISO 11073-00103:2017  
Health informatics – Personal health device communication – Part 00103: Overview (ISO/IEEE 11073-00103:2015)

EN ISO 11073-10441:2017  
Health informatics – Personal health device communication – Part 10441: Device specialization – Cardiovascular fitness and activity monitor (ISO/IEEE 11073-10441:2015)

EN ISO 11073-10442:2017  
Health informatics – Personal health device communication – Part 10442: Device specialization – Strength fitness equipment (ISO/IEEE 11073-10442:2015)

EN ISO 21298:2017  
Health informatics – Functional and structural roles (ISO 21298:2017, Corrected version 2017-04)

#### **Međunarodna normizacija ISO**

ISO 21298:2017  
Health informatics – Functional and structural roles

## 35.240.95 Internetske aplikacije

### Europska normizacija ETSI

- ETSI TR 103495 V 1.1.1:2017  
Network Technologies (NTECH) – Autonomic network engineering for the self-managing Future Internet (AFI) – Autonomicity and Self-Management in Wireless Ad-hoc/Mesh Networks: Autonomicity-enabled Ad-hoc and Mesh Network Architectures

## 37.100.10 Oprema za umnožavanje

### Međunarodna normizacija ISO

- ISO 19594:2017  
Graphic technology – Test method for the determination of the binding strength for perfect-bound products – Page-pull test working upwards
- ISO/IEC 24790:2017  
Information technology – Office equipment – Measurement of image quality attributes for hardcopy output – Monochrome text and graphic images

### IEC

- ISO/IEC 24790:2017  
Information technology – Office equipment – Measurement of image quality attributes for hardcopy output – Monochrome text and graphic images

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija ISO

- ISO 12219-6:2017  
Interior air of road vehicles – Part 6: Method for the determination of the emissions of semi-volatile organic compounds from vehicle interior parts and materials at higher temperature – Small chamber method
- ISO 12219-7:2017  
Interior air of road vehicles – Part 7: Odour determination in interior air of road vehicles and test chamber air of trim components by olfactory measurements

## 43.040.15 Informatika vozila. Računalni sustavi u vozilu

### Međunarodna normizacija ISO

- ISO 15005:2017  
Road vehicles – Ergonomic aspects of transportation and control systems – Dialogue management principles and compliance procedures
- ISO 15008:2017  
Road vehicles – Ergonomic aspects of transport information and control systems – Specifications and test procedures for in-vehicle visual presentation

## 43.060.40 Sustavi goriva

### Međunarodna normizacija ISO

- ISO 12614-19:2017  
Road vehicles – Liquefied natural gas (LNG) fuel system components – Part 19: Automatic valve
- ISO 12619-6:2017  
Road vehicles – Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blend fuel system components – Part 6: Automatic valve

## 43.120 Električna cestovna vozila

### Međunarodna normizacija IEC

- IEC 61851-1:2017  
Electric vehicle conductive charging system – Part 1: General requirements
- IEC TR 62660-4:2017  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 4: Candidate alternative test methods for the internal short circuit test of IEC 62660-3

## 45.060.01 Željeznička tračnička vozila općenito

### Europska normizacija CEN

- CEN/TR 17039:2017  
Railway applications – Technical Report about the revision of EN 14363

## 45.100 Oprema za žičare

### Europska normizacija CEN

- EN 13796-2:2017  
Safety requirements for cableway installations designed to carry persons – Carriers – Part 2: Slipping resistance tests for grips
- EN 13796-3:2017  
Safety requirements for cableway installations designed to carry persons – Carriers – Part 3: Fatigue testing

## 47.020.30 Cjevovodni sustavi

### Međunarodna normizacija ISO

- ISO 18139:2017  
Ships and marine technology – Globe valves for use in low temperature applications – Design and testing requirements

## 47.020.70 Oprema za navigaciju i upravljanje

### Europska normizacija CENELEC

- EN 62320-2:2017  
Maritime navigation and radiocommunication equipment and systems – Automatic identification system (AIS) – Part 2: AIS AtoN Stations – Operational and performance requirements, methods of testing and required test results (IEC 62320-2:2016)

### ETSI

- EN 300338-1 V 1.4.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 1: Common requirements
- EN 300338-2 V 1.4.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 2: Class A/B DSC
- EN 300338-3 V 1.2.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 3: Class D DSC

EN 300338-4 V 1.2.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 4: Class E DSC

EN 300338-5 V 1.2.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 5: Handheld VHF Class H DSC

EN 300338-6 V 1.1.1:2017  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 6: Class M DSC

EN 301929 V 2.1.1:2017  
VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 302194 V 2.1.1:2017  
Navigation radar used on inland waterways – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 303132 V 1.1.1:2017  
Maritime low power VHF personal locating beacons employing Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

#### **Međunarodna normizacija ISO**

ISO 13643-1:2017  
Ships and marine technology – Manoeuvring of ships – Part 1: General concepts, quantities and test conditions

ISO 13643-2:2017  
Ships and marine technology – Manoeuvring of ships – Part 2: Turning and yaw checking

ISO 13643-3:2017  
Ships and marine technology – Manoeuvring of ships – Part 3: Yaw stability and steering

ISO 13643-4:2017  
Ships and marine technology – Manoeuvring of ships – Part 4: Stopping, acceleration, traversing

ISO 13643-5:2017  
Ships and marine technology – Manoeuvring of ships – Part 5: Submarine specials

ISO 13643-6:2017  
Ships and marine technology – Manoeuvring of ships – Part 6: Model test specials

#### **IEC**

IEC 62287-2:2017  
Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 2: Self-organising time division multiple access (SOTDMA) techniques

### **47.020.99 Ostale norme koje se odnose na brodogradnju i pomorske konstrukcije**

#### **Europska normizacija CEN**

EN ISO 20519:2017  
Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels (ISO 20519:2017)

#### **Međunarodna normizacija ISO**

ISO 20519:2017  
Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels

### **49.020 Zrakoplovi i svemirska vozila općenito**

#### **Europska normizacija CEN**

EN 9132:2017  
Aerospace series – Quality management systems – Data Matrix Quality Requirements for Parts Marking

#### **49.025.10 Čelici**

#### **Europska normizacija CEN**

EN 2589:2017  
Aerospace series – Steel – Sheet and strip, cold rolled – Thickness 0,1 mm ≤ a ≤ 3 mm – Dimensions

EN 2590:2017  
Aerospace series – Steel – Sheets and plates, hot rolled – Dimensions

#### **49.025.20 Aluminij**

#### **Europska normizacija CEN**

EN 4827:2017  
Aerospace series – Hexavalent chromium free anodizing of aluminium and aluminium alloys

### **49.040 Premazivanje i srodni procesi koji se upotrebljavaju u zrakoplovnoj industriji**

#### **Europska normizacija CEN**

EN 4827:2017  
Aerospace series – Hexavalent chromium free anodizing of aluminium and aluminium alloys

#### **Međunarodna normizacija ISO**

ISO/TR 20590:2017  
Space systems – Debris mitigation design and operation manual for launch vehicle orbital stages

### **49.080 Hidraulični i pneumatski sustavi i sastavni dijelovi za zrakoplove**

#### **Međunarodna normizacija ISO**

ISO 11218:2017  
Aerospace – Cleanliness classification for hydraulic fluids

#### **49.140 Svemirski sustavi i operacije**

#### **Europska normizacija CEN**

EN 16602-10:2017  
Space product assurance – Product assurance management

#### **Međunarodna normizacija ISO**

ISO 19826:2017  
Space systems – Programme management – Management of product characteristics

## 55.080 Vreće. Torbe

### Europska normizacija CEN

- EN 13592:2017  
Plastics sacks for household waste collection – Types, requirements and test methods

## 59.060.01 Tekstilna vlakna općenito

### Europska normizacija CEN

- EN ISO 14362-1:2017  
Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017)
- EN ISO 14362-3:2017  
Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene (ISO 14362-3:2017)

## 59.140.30 Koža i krzno

### Europska normizacija CEN

- EN ISO 2418:2017  
Leather – Chemical, physical and mechanical and fastness test – Sampling location (ISO 2418:2017)
- EN ISO 2420:2017  
Leather – Physical and mechanical tests – Determination of apparent density and mass per unit area (ISO 2420:2017)
- EN ISO 5402-1:2017  
Leather – Determination of flex resistance – Part 1: Flexometer method (ISO 5402-1:2017)
- EN ISO 17075-1:2017  
Leather – Chemical determination of chromium(VI) content in leather – Part 1: Colorimetric method (ISO 17075-1:2017)
- EN ISO 17075-2:2017  
Leather – Chemical determination of chromium(VI) content in leather – Part 2: Chromatographic method (ISO 17075-2:2017)
- EN ISO 17232:2017  
Leather – Physical and mechanical tests – Determination of heat resistance of patent leather (ISO 17232:2017)
- EN ISO 17233:2017  
Leather – Physical and mechanical tests – Determination of cold crack temperature of surface coatings (ISO 17233:2017)
- EN ISO 23910:2017  
Leather – Physical and mechanical tests – Measurement of stitch tear resistance (ISO 23910:2017)

### Međunarodna normizacija ISO

- ISO 17075-2:2017  
Leather – Chemical determination of chromium(VI) content in leather – Part 2: Chromatographic method
- ISO 20136:2017  
Leather – Determination of degradability by micro-organisms
- ISO 20137:2017  
Leather – Chemical tests – Guidelines for testing critical chemicals in leather
- ISO 23910:2017  
Leather – Physical and mechanical tests – Measurement of stitch tear resistance

## 61.020 Odjeća

### Međunarodna normizacija ISO

- ISO 8559-1:2017  
Size designation of clothes – Part 1: Anthropometric definitions for body measurement
- ISO 8559-2:2017  
Size designation of clothes – Part 2: Primary and secondary dimension indicators

## 65.020.20 Uzgoj biljaka

### Međunarodna normizacija ISO

- ISO 19824:2017  
Traditional Chinese medicine – Schisandra chinensis (Turcz.) Baill. seeds and seedlings

## 65.060.35 Oprema za navodnjavanje i isušivanje

### Europska normizacija CEN

- EN ISO 13693-1:2017  
Irrigation equipment – Safety devices for chemigation – Part 1: Small plastics valves for chemigation (ISO 13693-1:2013)

### Međunarodna normizacija ISO

- IWA 20:2017  
Understanding and applying drip irrigation for sustainable agriculture

## 65.060.80 Oprema za šumarstvo

### Međunarodna normizacija ISO

- ISO 6531:2017  
Machinery for forestry – Portable chain-saws – Vocabulary

## 65.080 Gnojiva

### Europska normizacija CEN

- EN 16317+A1:2017  
Fertilizers and liming materials – Determination of arsenic by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution
- EN 16320+A1:2017  
Fertilizers and liming materials – Determination of mercury by vapour generation (VG) after aqua regia dissolution
- CEN/TR 17040:2017  
Fertilizers and liming materials – Sampling of static heaps – Technical report on experimental sampling trials performed under mandate M/454

### Međunarodna normizacija ISO

- ISO 19746:2017  
Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC)

## 67.200.10 Životinjske i biljne masti i ulja

### Europska normizacija CEN

- EN ISO 663:2017  
Animal and vegetable fats and oils – Determination of insoluble impurities content (ISO 663:2017)



EN ISO 3960:2017  
Animal and vegetable fats and oils – Determination of peroxide value – Iodometric (visual) endpoint determination (ISO 3960:2017)

EN ISO 6883:2017  
Animal and vegetable fats and oils – Determination of conventional mass per volume (litre weight in air) (ISO 6883:2017)

EN ISO 8534:2017  
Animal and vegetable fats and oils – Determination of water content – Karl Fischer method (pyridine free) (ISO 8534:2017)

EN ISO 15774:2017  
Animal and vegetable fats and oils – Determination of cadmium content by direct graphite furnace atomic absorption spectrometry (ISO 15774:2017)

#### **Međunarodna normizacija ISO**

ISO 6320:2017  
Animal and vegetable fats and oils – Determination of refractive index

ISO 15774:2017  
Animal and vegetable fats and oils – Determination of cadmium content by direct graphite furnace atomic absorption spectrometry

### **71.040.40 Kemijska analiza**

#### **Europska normizacija CEN**

EN 16640:2017  
Bio-based products – Bio-based carbon content – Determination of the bio-based carbon content using the radiocarbon method

#### **Međunarodna normizacija ISO**

ISO 15470:2017  
Surface chemical analysis – X-ray photoelectron spectroscopy – Description of selected instrumental performance parameters

ISO 16962:2017  
Surface chemical analysis – Analysis of zinc- and/or aluminium-based metallic coatings by glow-discharge optical-emission spectrometry

### **71.100.30 Eksplozivi. Pirotehnika i pirotehnička sredstva**

#### **Međunarodna normizacija ISO**

ISO 26261-1:2017  
Fireworks – Category 4 – Part 1: Terminology

ISO 26261-2:2017  
Fireworks – Category 4 – Part 2: Requirements

ISO 26261-3:2017  
Fireworks – Category 4 – Part 3: Test methods

ISO 26261-4:2017  
Fireworks – Category 4 – Part 4: Minimum labelling requirements and instructions for use

### **73.060.10 Željezove rude**

#### **Međunarodna normizacija ISO**

ISO 4689-2:2017  
Iron ores – Determination of sulfur content – Part 2: Combustion/titration method

ISO 4689-3:2017  
Iron ores – Determination of sulfur content – Part 3: Combustion/infrared method

### **75.060 Prirodni plin**

#### **Europska normizacija CEN**

EN ISO 14532:2017  
Natural gas – Vocabulary (ISO 14532:2014)

#### **Međunarodna normizacija ISO**

ISO/TR 29922:2017  
Natural gas – Supporting information on the calculation of physical properties according to ISO 6976

### **75.160.40 Biogoriva**

#### **Europska normizacija CEN**

EN ISO 18134-2:2017  
Solid biofuels – Determination of moisture content – Oven dry method – Part 2: Total moisture – Simplified method (ISO 18134-2:2017)

### **75.180.10 Oprema za iskorištavanje i vađenje**

#### **Međunarodna normizacija ISO**

ISO 16530-1:2017  
Petroleum and natural gas industries – Well integrity – Part 1: Life cycle governance

### **75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom**

#### **Europska normizacija CEN**

EN ISO 20519:2017  
Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels (ISO 20519:2017)

#### **Međunarodna normizacija ISO**

ISO 20519:2017  
Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels

### **77.140.01 Proizvodi od željeznog lijeva i čelika općenito**

#### **Europska normizacija CEN**

EN ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary (ISO 4885:2017)

#### **Međunarodna normizacija ISO**

ISO 4885:2017  
Ferrous materials – Heat treatments – Vocabulary

### **77.140.60 Čelične šipke i žice**

#### **Europska normizacija CEN**

EN ISO 16120-2:2017  
Non-alloy steel wire rod for conversion to wire – Part 2: Specific requirements for general purpose wire rod (ISO 16120-2:2017)

**Međunarodna normizacija  
ISO**

ISO 16120-2:2017  
Non-alloy steel wire rod for conversion to wire – Part 2:  
Specific requirements for general purpose wire rod

**77.150.20 Proizvodi od magnezija**

**Europska normizacija  
CEN**

EN 1559-5:2017  
Founding – Technical conditions of delivery – Part 5: Additional  
requirements for magnesium alloy castings

**81.040.20 Staklo u graditeljstvu**

**Europska normizacija  
CEN**

EN 15681-2:2017  
Glass in Building – Basic alumino silicate glass products  
– Part 2: Product standard

**81.060.30 Tehnička keramika**

**Međunarodna normizacija  
ISO**

ISO 19618:2017  
Fine ceramics (advanced ceramics, advanced technical  
ceramics) – Measurement method for normal spectral  
emissivity using blackbody reference with an FTIR  
spectrometer

**83.040.01 Sirovine za gumu i plastiku  
općenito**

**Europska normizacija  
CEN**

EN 16640:2017  
Bio-based products – Bio-based carbon content  
– Determination of the bio-based carbon content using the  
radiocarbon method

**83.080.01 Plastika općenito**

**Europska normizacija  
CEN**

EN ISO 29664:2017  
Plastics – Artificial weathering including acidic deposition  
(ISO 29664:2010)

**Međunarodna normizacija  
ISO**

ISO 12992:2017  
Plastics – Vertical flame spread determination for film and  
sheet

**83.080.10 Duromerni materijali**

**Međunarodna normizacija  
ISO**

ISO 14900:2017  
Plastics – Polyols for use in the production of polyurethane  
– Determination of hydroxyl number

ISO 26603:2017  
Plastics – Aromatic isocyanates for use in the production of  
polyurethanes – Determination of total chlorine

**83.140.30 Plastične cijevi, spojnice i ventili**

**Međunarodna normizacija  
ISO**

ISO 11424:2017  
Rubber hoses and tubing for air and vacuum systems for  
internal-combustion engines – Specification

**83.140.40 Crijeva**

**Međunarodna normizacija  
ISO**

ISO 11424:2017  
Rubber hoses and tubing for air and vacuum systems for  
internal-combustion engines – Specification

**83.180 Adhezivi**

**Europska normizacija  
CEN**

EN 12004-1:2017  
Adhesives for ceramic tiles – Part 1: Requirements,  
assessment and verification of constancy of performance,  
classification and marking

EN 12004-2:2017  
Adhesives for ceramic tiles – Part 2: Test methods

**87.040 Boje i lakovi**

**Europska normizacija  
CEN**

EN ISO 20567-1:2017  
Paints and varnishes – Determination of stone-chip resistance  
of coatings – Part 1: Multi-impact testing (ISO 20567-1:2017)

EN ISO 20567-2:2017  
Paints and varnishes – Determination of stone-chip resistance  
of coatings – Part 2: Single-impact test with a guided impact  
body (ISO 20567-2:2017)

**91.080.40 Betonske konstrukcije**

**Europska normizacija  
CEN**

EN 1766:2017  
Products and systems for the protection and repair of concrete  
structures – Test methods – Reference concretes for testing

**91.100.10 Cement. Gips. Vapno. Mort**

**Europska normizacija  
CEN**

EN 12004-1:2017  
Adhesives for ceramic tiles – Part 1: Requirements,  
assessment and verification of constancy of performance,  
classification and marking

EN 12004-2:2017  
Adhesives for ceramic tiles – Part 2: Test methods

**91.100.23 Keramičke pločice**

**Europska normizacija  
CEN**

EN 14891:2017  
Liquid applied water impermeable products for use beneath  
ceramic tiling bonded with adhesives – Requirements,  
test methods, assessment and verification of constancy of  
performance, classification and marking

## 91.100.25 Građevni proizvodi od pečene gline

### Europska normizacija CEN

- EN 14891:2017  
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, assessment and verification of constancy of performance, classification and marking

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

- EN 12004-2:2017  
Adhesives for ceramic tiles – Part 2: Test methods

## 91.100.50 Veziva. Materijali za brtvljenje

### Europska normizacija CEN

- EN 14891:2017  
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, assessment and verification of constancy of performance, classification and marking
- EN 15651-1:2017  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Part 1: Sealants for facade elements
- EN 15651-2:2017  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Part 2: Sealants for glazing
- EN 15651-3:2017  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Part 3: Sealants for sanitary joints
- EN 15651-4:2017  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Part 4: Sealants for pedestrian walkways
- CEN/TR 17068:2017  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Guidance for CE marking and Declaration of Performance (DoP)

## 91.140.40 Sustavi opskrbe plinom

### Europska normizacija CEN

- EN 16830:2017  
Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Temperature Control function

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

- EN 62052-21:2004/A1:2017  
Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 21: Tariff and load control equipment (IEC 62052-21:2004/A1:2016)
- EN 62053-11:2003/A1:2017  
Electricity metering equipment (a.c.) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2) (IEC 62053-11:2003/A1:2016)
- EN 62053-21:2003/A1:2017  
Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21:2003/A1:2016)

- EN 62053-22:2003/A1:2017  
Electricity metering equipment (a.c.) – Particular requirements – Part 22: Static meters for active energy (classes 0,2 S and 0,5 S) (IEC 62053-22:2003/A1:2016)

## 91.140.60 Sustavi opskrbe vodom

### Europska normizacija CEN

- EN ISO 15876-1:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 1: General (ISO 15876-1:2017)
- EN ISO 15876-2:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 2: Pipes (ISO 15876-2:2017)
- EN ISO 15876-3:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 3: Fittings (ISO 15876-3:2017)
- EN ISO 15876-5:2017  
Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 5: Fitness for purpose of the system (ISO 15876-5:2017)

## 91.140.80 Odvodni sustavi

### Europska normizacija CEN

- EN 1253-5:2017  
Gullies for buildings – Part 5: Gullies with light liquids closure

## 91.140.90 Dizala. Pokretne stube

### Međunarodna normizacija ISO

- ISO 22201-1:2017  
Lifts (elevators), escalators and moving walks – Programmable electronic systems in safety-related applications – Part 1: Lifts (elevators) (PESSRAL)

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Međunarodna normizacija ISO

- ISO 17892-5:2017  
Geotechnical investigation and testing – Laboratory testing of soil – Part 5: Incremental loading oedometer test
- ISO 17892-6:2017  
Geotechnical investigation and testing – Laboratory testing of soil – Part 6: Fall cone test

## 93.080.20 Materijali za gradnju cesta

### Europska normizacija CEN

- EN 12697-17:2017  
Bituminous mixtures – Test methods – Part 17: Particle loss of porous asphalt specimens

## 93.100 Gradnja željezničkih pruga

### Europska normizacija CEN

- EN 14730-1:2017  
Railway applications – Track – Aluminothermic welding of rails – Part 1: Approval of welding processes

## 97.020 Kućno gospodarstvo općenito

Međunarodna normizacija  
ISO

ISO 6347:2017  
Textile floor coverings – Consumer information

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

Europska normizacija  
CEN

EN 15181:2017  
Measuring method of the energy consumption of gas fired ovens

## 97.040.40 Strojevi za pranje posuđa

Europska normizacija  
CENELEC

EN 50593:2017  
Electric dishwashers for commercial use – Test methods for measuring the performance

## 97.080 Uređaji za čišćenje podova

Europska normizacija  
CENELEC

EN 60312-1:2017  
Vacuum cleaners for household use – Part 1: Dry vacuum cleaners – Methods for measuring the performance (IEC 60312-1:2010, modified + A1:2011, modified)

## 97.100.20 Plinski grijači

Europska normizacija  
CEN

EN 16830:2017  
Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Temperature Control function

## 97.140 Namještaj

Međunarodna normizacija  
ISO

ISO 24496:2017  
Office furniture – Office chairs – Methods for the determination of dimensions

## 97.150 Netekstilni podni prekrivači

Međunarodna normizacija  
ISO

ISO 6347:2017  
Textile floor coverings – Consumer information

## 97.195 Umjetnički i obrtnički predmeti

Europska normizacija  
CEN

EN 16682:2017  
Conservation of cultural heritage – Methods of measurement of moisture content, or water content, in materials constituting immovable cultural heritage

## 97.220.10 Sportski objekti

Europska normizacija  
CEN

EN 16927:2017  
Mini-pools – Specific requirements including safety and test methods for mini-pools

## 97.220.20 Oprema za zimske sportove

Europska normizacija  
CEN

EN 16716:2017  
Mountaineering equipment – Avalanche airbag systems – Safety requirements and test methods

## 97.220.40 Oprema za sportove na otvorenom i sportove na vodi

Europska normizacija  
CEN

EN 16716:2017  
Mountaineering equipment – Avalanche airbag systems – Safety requirements and test methods