

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

9/2017 rujan, 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 nacrtu hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 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 8, Brodogradnja

HRN EN ISO 8846:2017 en pr  
Mala plovila – Električni uređaji – Zaštita od zapaljenja okolnih zapaljivih plinova (ISO 8846:1990; EN ISO 8846:2017)  
Small craft – Electrical devices – Protection against ignition of surrounding flammable gases (ISO 8846:1990; EN ISO 8846:2017)

HRN EN ISO 8848:2017 en pr  
Mala plovila – Sustavi daljinskog kormilarenja (ISO 8848:1990; EN ISO 8848:2017)  
Small craft – Remote steering systems (ISO 8848:1990; EN ISO 8848:2017)

HRN EN ISO 9094:2017 en pr  
Mala plovila – Protupožarna zaštita (ISO 9094:2015; EN ISO 9094:2017)  
Small craft – Fire protection (ISO 9094:2015; EN ISO 9094:2017)

HRN EN ISO 9775:2017 en pr  
Mala plovila – Sustavi daljinskog kormilarenja za izvedbe s jednim izvanbrodskim motorom snage od 15 kW do 40 kW (ISO 9775:1990; EN ISO 9775:2017)  
Small craft – Remote steering systems for single outboard motors of 15 kW to 40 kW power (ISO 9775:1990; EN ISO 9775:2017)

HRN EN ISO 10239:2017 en pr  
Mala plovila – Sustavi ukapljenih naftnih plinova (LPG) (ISO 10239:2014; EN ISO 10239:2017)  
Small craft – Liquefied petroleum gas (LPG) systems (ISO 10239:2014; EN ISO 10239:2017)

HRN EN ISO 10592:2017 en pr  
Mala plovila – Hidraulički kormilarski sustav (ISO 10592:1994; EN ISO 10592:2017)  
Small craft – Hydraulic steering systems (ISO 10592:1994; EN ISO 10592:2017)

HRN EN ISO 12217-3:2017 en pr  
Mala plovila – Ocjenjivanje i razredba stabiliteta i plovnosti – 3. dio: Plovila duljine trupa manje od 6 m (ISO 12217-3:2015; EN ISO 12217-3:2017)  
Small craft – Stability and buoyancy assessment and categorization – Part 3: Boats of hull length less than 6 m (ISO 12217-3:2015; EN ISO 12217-3:2017)

HRN EN ISO 13929:2017 en pr  
Mala plovila – Kormilarski uređaj – Sustavi sa zupčano-polužnim prijenosom (ISO 13929:2001; EN ISO 13929:2017)  
Small craft – Steering gear – Geared link systems (ISO 13929:2001; EN ISO 13929:2017)

HRN EN ISO 15584:2017 en pr  
Mala plovila – Ugrađeni benzinski motori – Komponente sustava goriva i elektrouređaja (ISO 15584:2001; EN ISO 15584:2017)  
Small craft – Inboard petrol engines – Engine-mounted fuel and electrical components (ISO 15584:2001; EN ISO 15584:2017)

HRN EN ISO 15652:2017 en pr  
Mala plovila – Sustavi daljinskog kormilarenja za plovila s ugrađenim motorom i malim vodomlaznim propulzorom (ISO 15652:2003; EN ISO 15652:2017)  
Small craft – Remote steering systems for inboard mini jet boats (ISO 15652:2003; EN ISO 15652:2017)

HRN EN ISO 16147:2017 en pr  
Mala plovila – Ugrađeni dizelski motori – Komponente sustava goriva i elektrouređaja ovještene na motor (ISO 16147:2002; EN ISO 16147:2017)  
Small craft – Inboard diesel engines – Engine-mounted fuel and electrical components (ISO 16147:2002; EN ISO 16147:2017)

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

HRN EN 1601:2017 en pr  
Tekući naftni proizvodi – Određivanje količine organskih spojeva kisika i ukupnoga organski vezanoga kisika u bezolovnom motorom benzinu – Metoda plinskom kromatografijom (O-FID) (EN 1601:2017)  
Liquid petroleum products – Determination of organic oxygenate compounds and total organically bound oxygen content in unleaded petrol – Method by gas chromatography (O-FID) (EN 1601:2017)

HRN EN 15984:2017 en pr  
Naftna industrija i proizvodi – Određivanje sastava rafinerijskih plinova za loženje i izračunavanje udjela ugljika i toplinske vrijednosti – Metoda plinske kromatografije (EN 15984:2017)  
Petroleum industry and products – Determination of composition of refinery heating gas and calculation of carbon content and calorific value – Gas chromatography method (EN 15984:2017)

HRN EN 16906:2017 en pr  
Tekući naftni proizvodi – Određivanje kvalitete paljenja dizelskih goriva – BASF motorna metoda (EN 16906:2017)  
Liquid petroleum products – Determination of the ignition quality of diesel fuels – BASF engine method (EN 16906:2017)

HRN EN 16934:2017 en pr  
Goriva za motorna vozila i derivati masti i ulja – Određivanje steril glikozida u metilnim esterima masnih kiselina (FAME) – Metoda pročišćavanja uzoraka ekstrakcijom čvrste faze prije GC-MS analize (SPE-GC-MS) (EN 16934:2017)  
Automotive fuels and fat and oil derivatives – Determination of sterol glycosides in fatty acid methyl ester (FAME) – Method by GC-MS with prior purification by SPE (EN 16934:2017)

HRN EN 16997:2017 en pr  
Tekući naftni proizvodi – Određivanje sadržaja sumpora u E85 motorom benzinu s etanolom – Metoda valno disperzivne rendgenske fluorescentne spektrometrije (EN 16997:2017)  
Liquid petroleum product – Determination of the sulfur content in ethanol containing petrol E85 – Wavelength dispersive X-ray fluorescence spectrometric method (EN 16997:2017)

### HZN/TO 43, Akustika

HRN EN ISO 12354-1:2017 en pr  
Akustika u zgradarstvu – Procjena akustičkih svojstava zgrada iz svojstava građevnih dijelova zgrade – 1. dio: Zračna zvučna izolacija između prostorija (ISO 12354-1:2017; EN ISO 12354-1:2017)  
Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 1: Airborne sound insulation between rooms (ISO 12354-1:2017; EN ISO 12354-1:2017)

HRN EN ISO 12354-2:2017 en pr  
Akustika u zgradarstvu – Procjena akustičkih svojstava zgrada iz svojstava građevnih dijelova zgrade – 2. dio: Udarna zvučna izolacija između prostorija (ISO 12354-2:2017; EN ISO 12354-2:2017)  
Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 2: Impact sound insulation between rooms (ISO 12354-2:2017; EN ISO 12354-2:2017)

HRN EN ISO 12354-3:2017 en pr  
Akustika u zgradarstvu – Procjena akustičkih svojstava zgrada iz svojstava građevnih dijelova zgrade – 3. dio: Zračna zvučna izolacija od vanjskog zvuka (ISO 12354-3:2017; EN ISO 12354-3:2017)  
Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 3: Airborne sound insulation against outdoor sound (ISO 12354-3:2017; EN ISO 12354-3:2017)

HRN EN ISO 12354-4:2017 en pr  
Akustika u zgradarstvu – Procjena akustičkih svojstava zgrada iz svojstava građevnih dijelova zgrade – 4. dio: Prijenos unutarnjeg zvuka prema van (ISO 12354-4:2017; EN ISO 12354-4:2017)  
Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 4: Transmission of indoor sound to the outside (ISO 12354-4:2017; EN ISO 12354-4:2017)

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

HRN EN ISO 9606-1:2017 en pr  
Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (ISO 9606-1:2012 uključujući Cor 1:2012 i Cor 2:2013; EN ISO 9606-1:2017)  
Qualification testing of welders – Fusion welding – Part 1: Steels (ISO 9606-1:2012 including Cor 1:2012 and Cor 2:2013; EN ISO 9606-1:2017)

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

HRN ISO 28500:2017 en pr  
Informacije i dokumentacija – WARC format datoteke (ISO 28500:2017)  
Information and documentation – WARC file format (ISO 28500:2017)

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

HRN EN ISO 14903:2017 en pr  
Rashladni sustavi i dizalice topline – Kvalifikacija nepropusnosti dijelova i spojeva (ISO 14903:2017; EN ISO 14903:2017)  
Refrigerating systems and heat pumps – Qualification of tightness of components and joints (ISO 14903:2017; EN ISO 14903:2017)

#### **HZN/TO 92, Zaštita od požara**

HRN EN ISO 13943:2017 en pr  
Zaštita od požara – Terminološki rječnik (ISO 13943:2017; EN ISO 13943:2017)  
Fire safety – Vocabulary (ISO 13943:2017; EN ISO 13943:2017)

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

HRN EN ISO 28927-2:2010/A1:2017 en pr  
Ručni prijenosni strojni alati – Metode ispitivanja za procjenu emisije vibracija – 2. dio: Ključevi za matice, odvijači matica i izvijači – Amandman 1: Promjene u Dodatku C – Naprava za kočenje (ISO 28927-2:2009/Amd 1:2017; EN ISO 28927-2:2009/A1:2017)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 2: Wrenches, nutrunners and screwdrivers – Amendment 1: Changes in annex C – Brake device (ISO 28927-2:2009/Amd 1:2017; EN ISO 28927-2:2009/A1:2017)

#### **HZN/TO 120, Koža i obuća**

HRN EN 16887:2017 en pr  
Koža – Ekološki otisak – Pravila za kategorizaciju proizvoda (PCR) – Ugljični otisci (EN 16887:2017)  
Leather – Environmental footprint – Product Category Rules (PCR) – Carbon footprints (EN 16887:2017)

HRN EN ISO 20136:2017 en pr  
Koža – Određivanje razgradivosti pomoću mikroorganizama (ISO 20136:2017; EN ISO 20136:2017)  
Leather – Determination of degradability by micro-organisms (ISO 20136:2017; EN ISO 20136:2017)

HRN EN ISO 20137:2017 en pr  
Koža – Kemijska ispitivanja – Smjernice za ispitivanje štetnih kemikalija u koži (ISO 20137:2017; EN ISO 20137:2017)  
Leather – Chemical tests – Guidelines for testing critical chemicals in leather (ISO 20137:2017; EN ISO 20137:2017)

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

HRN EN ISO 18082:2014/A1:2017 en pr  
Anestetička i respiracijska oprema – Dimenzije nezamjenjivih priključaka na navoj (NIST) niskog tlaka za medicinske plinove (ISO 18082:2014/Amd 1:2017; EN ISO 18082:2014/A1:2017)  
Anaesthetic and respiratory equipment – Dimensions of non-interchangeable screw-threaded (NIST) low-pressure connectors for medical gases (ISO 18082:2014/Amd 1:2017; EN ISO 18082:2014/A1:2017)

#### **HZN/TO 130, Grafička tehnologija**

HRN ISO 13655:2017 en pr  
Grafička tehnologija – Spektralna mjerenja i izračun kolorimetrijskih parametara za grafičke reprodukcije (ISO 13655:2017)  
Graphic technology – Spectral measurement and colorimetric computation for graphic arts images (ISO 13655:2017)

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

HRN EN ISO 18563-2:2017 en pr  
Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 2. dio: Sonde (ISO 18563-2:2017; EN ISO 18563-2:2017)  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 2: Probes (ISO 18563-2:2017; EN ISO 18563-2:2017)

#### **HZN/TO 145, Grafički simboli**

HRN ISO 7001:2008/A4:2017 en pr  
Grafički simboli – Simboli javnog obavješćivanja (ISO 7001:2007/Amd 4:2017)  
Graphical symbols – Public information symbols (ISO 7001:2007/Amd 4:2017)

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

HRN ISO 5667-12:2017 en pr  
Kvaliteta vode – Uzorkovanje – 12. dio: Smjernice za uzorkovanje sedimenta iz rijeka, jezera i ušća (ISO 5667-12:2017)  
Water quality – Sampling – Part 12: Guidance on sampling of bottom sediments from rivers, lakes and estuarine areas (ISO 5667-12:2017)

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

HRN EN ISO 8980-1:2017 en pr  
Oftalmološka optika – Neoblikovane gotove leće za naočale – 1. dio: Specifikacije za jednožarišne i višežarišne leće (ISO 8980-1:2017; EN ISO 8980-1:2017)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2017; EN ISO 8980-1:2017)

HRN EN ISO 8980-2:2017 en pr  
Oftalmološka optika – Neoblikovane gotove leće za naočale – 2. dio: Specifikacije za leće s promjenjivom jakosti (ISO 8980-2:2017; EN ISO 8980-2:2017)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 2: Specifications for power-variation lenses (ISO 8980-2:2017; EN ISO 8980-2:2017)

HRN ISO 9849:2017 en pr  
Optika i optički instrumenti – Geodetski instrumenti i instrumenti izmjere – Terminološki rječnik (ISO 9849:2017)  
Optics and optical instruments – Geodetic and surveying instruments – Vocabulary (ISO 9849:2017)

HRN EN ISO 11554:2017 en pr  
Optika i fotonika – Laseri i pridružena oprema – Metode ispitivanja za snagu, energiju i vremenske značajke laserskog snopa (ISO 11554:2017; EN ISO 11554:2017)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power, energy and temporal characteristics (ISO 11554:2017; EN ISO 11554:2017)

HRN EN ISO 11978:2017 en pr  
Oftalmološka optika – Kontaktna leća i proizvodi za njegu kontaktnih leća – Označavanje (ISO 11978:2017; EN ISO 11978:2017)  
Ophthalmic optics – Contact lenses and contact lens care products – Labelling (ISO 11978:2017; EN ISO 11978:2017)

HRN EN ISO 21987:2017 en pr  
Oftalmološka optika – Ugrađene leće za naočale (ISO 21987:2017; EN ISO 21987:2017)  
Ophthalmic optics – Mounted spectacle lenses (ISO 21987:2017; EN ISO 21987:2017)

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

HRN EN 71-3:2017 en pr  
Sigurnost igračkaka – 3. dio: Opuštanje određenih elemenata (EN 71-3:2013+A2:2017)  
Safety of toys – Part 3: Migration of certain elements (EN 71-3:2013+A2:2017)

HRN EN 71-14:2017 en pr  
Sigurnost igračkaka – 14. dio: Trampolini za kućnu uporabu (EN 71-14:2014+A1:2017)  
Safety of toys – Part 14: Trampolines for domestic use (EN 71-14:2014+A1:2017)

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

HRN EN ISO 2082:2017 en pr  
Metalne i ostale anorganske prevlake – Elektroplatinirane kadmijske prevlake na željezu ili čeliku s naknadnom obradom (ISO 2082:2017; EN ISO 2082:2017)  
Metallic and other inorganic coatings – Electroplated coatings of cadmium with supplementary treatments on iron or steel (ISO 2082:2017; EN ISO 2082:2017)

HRN EN ISO 2360:2017 en pr  
Nevodljive prevlake na nemagnetskim električki vodljivim metalnim podlogama – Mjerenje debljine prevlake – Metoda vrložnih struja, osjetljivih na promjenu amplitude (ISO 2360:2017; EN ISO 2360:2017)  
Non-conductive coatings on non-magnetic electrically conductive base metals – Measurement of coating thickness – Amplitude-sensitive eddy-current method (ISO 2360:2017; EN ISO 2360:2017)

HRN EN ISO 20274:2017 en pr  
Staklasti i porculanski emajli – Priprema uzoraka i određivanje koeficijenta toplinskog širenja (ISO 20274:2017; EN ISO 20274:2017)  
Vitreous and porcelain enamels – Preparation of samples and determination of thermal expansion coefficient (ISO 20274:2017; EN ISO 20274:2017)

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

HRN EN ISO 6145-6:2017 en pr  
Analiza plina – Priprava plinskih smjesa za umjeravanje primjenom dinamičkih metoda – 6. dio: Prigušnice s kritičnim protokom (ISO 6145-6:2017; EN ISO 6145-6:2017)  
Gas analysis – Preparation of calibration gas mixtures using dynamic methods – Part 6: Critical flow orifices (ISO 6145-6:2017; EN ISO 6145-6:2017)

HRN EN ISO 17781:2017 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Metode ispitivanja za kontrolu kvalitete mikrostrukture austenitnog/feritnog (duplex) nehrđajućeg čelika (ISO 17781:2017; EN ISO 17781:2017)  
Petroleum, petrochemical and natural gas industries – Test methods for quality control of microstructure of austenitic/ferritic (duplex) stainless steel (ISO 17781:2017; EN ISO 17781:2017)

## HZN/TO 509, Cestovna oprema

HRN EN 12675:2017 en pr  
Upravljački uređaj prometnog signala – Zahtjevi za funkcionalnu sigurnost (EN 12675:2017)  
Traffic signal controllers – Functional safety requirements (EN 12675:2017)

## HZN/TO 528, Oprema za željeznice

HRN EN 13848-5:2017 en pr  
Željeznički sustav – Željeznički gornji ustroj – Kvaliteta kolosiječne geometrije – 5. dio: Razine kvalitete kolosiječne geometrije – Otvorena pruga, skretnice i križišta (EN 13848-5:2017)  
Railway applications – Track – Track geometry quality – Part 5: Geometric quality levels – Plain line, switches and crossings (EN 13848-5:2017)

HRN EN 16186-2:2017 en pr  
Željeznički sustav – Upravljačnica – 2. dio: Integracija zaslona, upravljačkih uređaja i pokazivača (EN 16186-2:2017)  
Railway applications – Driver's cab – Part 2: Integration of displays, controls and indicators (EN 16186-2:2017)

HRN EN 16432-2:2017 en pr  
Željeznički sustav – Kolosiječni sustavi na čvrstoj podlozi – 2. dio: Projektiranje sustava, podsustava i dijelova (EN 16432-2:2017)  
Railway applications – Ballastless track systems – Part 2: System design, subsystems and components (EN 16432-2:2017)

## HZN/TO 533, Kolničke konstrukcije

HRS CEN/TS 12697-51:2017 en pr  
Bitumenske mješavine – Metode ispitivanja – 51. dio: Ispitivanje posmične čvrstoće površine (CEN/TS 12697-51:2017)  
Bituminous mixtures – Test methods – Part 51: Surface shear strength test (CEN/TS 12697-51:2017)

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

HRN EN 12453:2017 en pr  
Industrijska, komercijalna, garažna i ostala ulazna vrata – Sigurnost pri upotrebi strojno pogonjenih vrata – Zahtjevi i metode ispitivanja (EN 12453:2017)  
Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Requirements and test methods (EN 12453:2017)

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

HRN EN 16798-3:2017 en pr  
Energijska svojstva zgrada – Ventilacija u zgradama – 3. dio: Nestambene zgrade – Izvedbeni zahtjevi za sustave ventilacije i klimatizacije (Moduli M5-1, M5-4) (EN 16798-3:2017)  
Energy performance of buildings – Ventilation for buildings – Part 3: For non-residential buildings – Performance requirements for ventilation and room-conditioning systems (Modules M5-1, M5-4) (EN 16798-3:2017)

HRN EN 16798-5-2:2017 en pr  
Energijska svojstva zgrada – Ventilacija u zgradama – Dio 5-2: Metode proračuna energijskih zahtjeva sustava ventilacije – (Moduli M5-6, M5-8, M6-5, M6-8, M7-5, M7-8) – Metoda 2: Distribucija i proizvodnja (EN 16798-5-2:2017)  
Energy performance of buildings – Ventilation for buildings – Part 5-2: Calculation methods for energy requirements of ventilation systems (Modules M5-6, M5-8, M6-5, M6-8, M7-5, M7-8) – Method 2: Distribution and generation (EN 16798-5-2:2017)

## HZN/TO 549, Svjetlo i rasvjeta

HRI CEN/TR 16791:2017 en pr  
Procjena zračenja s obzirom na neslikovne učinke svjetlosti, koja se apsorbira putem oka, na ljudski organizam (CEN/TR 16791:2017)  
Quantifying irradiance for eye-mediated non-image forming effects of light in humans (CEN/TR 16791:2017)

## HZN/TO 555, Medicinski proizvodi

HRN EN ISO 11607-1:2017 en pr  
Ambalaža za završno sterilizirane medicinske proizvode – 1. dio: Zahtjevi za materijale, sustave sterilne obloge i sustave ambalaže (ISO 11607-1:2006; EN ISO 11607-1:2017)  
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006; EN ISO 11607-1:2017)

HRN EN ISO 11607-2:2017 en pr  
Ambalaža za završno sterilizirane medicinske proizvode – 2. dio: Vrednovanje zahtjeva za oblikovanje, lijepljenje i postupke sastavljanja (ISO 11607-2:2006; EN ISO 11607-2:2017)  
Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2006; EN ISO 11607-2:2017)

HRN EN ISO 14644-13:2017 en pr  
Čisti prostori i odgovarajuća kontrolirana okolina – 13. dio: Čišćenje površina do utvrđene razine čistoće prema koncentraciji čestica i kemijskoj koncentraciji (ISO 14644-13:2017; EN ISO 14644-13:2017)  
Cleanrooms and associated controlled environments – Part 13: Cleaning of surfaces to achieve defined levels of cleanliness in terms of particle and chemical classifications (ISO 14644-13:2017; EN ISO 14644-13:2017)



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

HRN EN ISO 20349-1:2017 en pr  
Osobna zaštitna oprema – Obuća za zaštitu od rizika u ljevaonicama i pri zavarivanju – 1. dio: Zahtjevi i metode ispitivanja za zaštitu od rizika u ljevaonicama (ISO 20349-1:2017; EN ISO 20349-1:2017)  
Personal protective equipment – Footwear protecting against risks in foundries and welding – Part 1: Requirements and test methods for protection against risks in foundries (ISO 20349-1:2017; EN ISO 20349-1:2017)

HRN EN ISO 20349-2:2017 en pr  
Osobna zaštitna oprema – Obuća za zaštitu od rizika u ljevaonicama i pri zavarivanju – 2. dio: Zahtjevi i metode ispitivanja za zaštitu od rizika pri zavarivanju i srodnim postupcima (ISO 20349-2:2017; EN ISO 20349-2:2017)  
Personal protective equipment – Footwear protecting against risks in foundries and welding – Part 2: Requirements and test methods for protection against risks in welding and allied processes (ISO 20349-2:2017; EN ISO 20349-2:2017)

## HZN/TO 557, *Zaštitna odjeća*

HRN EN ISO 13506-1:2017 en pr  
Odjeća za zaštitu od topline i plamena – 1. dio: Metoda ispitivanja odjeće – Mjerenje prenesene energije uporabom lutke sa senzorima (ISO 13506-1:2017; EN ISO 13506-1:2017)  
Protective clothing against heat and flame – Part 1: Test method for complete garments – Measurement of transferred energy using an instrumented manikin (ISO 13506-1:2017; EN ISO 13506-1:2017)

HRN EN 13911:2017 en pr  
Zaštitna odjeća za vatrogasce – Zahtjevi i metode ispitivanja za vatrogasne potkape za vatrogasce (EN 13911:2017)  
Protective clothing for firefighters – Requirements and test methods for fire hoods for firefighters (EN 13911:2017)

## HZN/TO 560, *Tekstilni proizvodi*

HRN EN ISO 1107:2017 en pr  
Ribarske mreže – Mrežaste tvorevine – Osnovni nazivi i definicije (ISO 1107:2017; EN ISO 1107:2017)  
Fishing nets – Netting – Basic terms and definitions (ISO 1107:2017; EN ISO 1107:2017)

HRN EN ISO 6179:2017 en pr  
Vulkanizirana ili termoplastična guma – Gumene plahte i tkanine presvučene gumom – Određivanje stupnja prolaza isparivih tekućina (gravimetrijska metoda) (ISO 6179:2017; EN ISO 6179:2017)  
Rubber, vulcanized or thermoplastic – Rubber sheets and rubber-coated fabrics – Determination of transmission rate of volatile liquids (gravimetric technique) (ISO 6179:2017; EN ISO 6179:2017)

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

HRN EN 303-2:2017 en pr  
Toplovodni kotlovi – 2. dio: Toplovodni kotlovi s predtlačnim plamenikom – Posebni zahtjevi za kotlove s predtlačnim plamenicima na raspršeno ulje (EN 303-2:2017)  
Heating boilers – Part 2: Heating boilers with forced draught burners – Special requirements for boilers with atomizing oil burners (EN 303-2:2017)

HRN EN ISO 10156:2017 en pr  
Plinske boce – Plinovi i mješavine plinova – Određivanje zapaljivosti i oksidacijskih svojstava za odabir priključaka za ventile na bocama (ISO 10156:2017; EN ISO 10156:2017)  
Gas cylinders – Gases and gas mixtures – Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets (ISO 10156:2017; EN ISO 10156:2017)

HRN EN 13445-3:2014/A3:2017 en pr  
Neložene tlačne posude – 3. dio: Projektiranje (EN 13445-3:2014/A3:2017)  
Unfired pressure vessels – Part 3: Design (EN 13445-3:2014/A3:2017)

HRN EN 13480-1:2017 en pr  
Metalni industrijski cjevovodi – 1. dio: Općenito (EN 13480-1:2017)  
Metallic industrial piping – Part 1: General (EN 13480-1:2017)

HRN EN 13480-2:2017 en pr  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2017)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2017)

HRN EN 13480-3:2017 en pr  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2017)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2017)

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

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

HRN EN 13480-6:2017 en pr  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode (EN 13480-6:2017)  
Metallic industrial piping – Part 6: Additional requirements for buried piping (EN 13480-6:2017)

HRI CEN/TR 13480-7:2017 en pr  
Metalni industrijski cjevovodi – 7. dio: Smjernice za primjenu postupaka za ocjenu sukladnosti (CEN/TR 13480-7:2017)  
Metallic industrial piping – Part 7: Guidance on the use of conformity assessment procedures (CEN/TR 13480-7:2017)

HRN EN 13480-8:2017 en pr  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura (EN 13480-8:2017)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2017)

HRN EN ISO 14246:2014/A1:2017 en pr  
Plinske boce – Ventili boca – Ispitivanja u proizvodnji i pregledi (ISO 14246:2014/Amd 1:2017; EN ISO 14246:2014/A1:2017)  
Gas cylinders – Cylinder valves – Manufacturing tests and examinations (ISO 14246:2014/Amd 1:2017; EN ISO 14246:2014/A1:2017)

HRN EN ISO 17879:2017 en pr  
Plinske boce – Samozatvarajući ventili za boce – Specifikacije i tipno ispitivanje (ISO 17879:2017; EN ISO 17879:2017)  
Gas cylinders – Self-closing cylinder valves – Specification and type testing (ISO 17879:2017; EN ISO 17879:2017)

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

HRN EN ISO 19085-1:2017 en pr  
Strojevi za obradu drveta – Sigurnost – 1. dio: Opći zahtjevi (ISO 19085-1:2017; EN ISO 19085-1:2017)  
Woodworking machines – Safety – Part 1: Common requirements (ISO 19085-1:2017; EN ISO 19085-1:2017)

HRN EN ISO 19085-2:2017 en pr  
Strojevi za obradu drveta – Sigurnost – 2. dio: Horizontalne kružne pile za ploče s pritisknim uređajem (ISO 19085-2:2017; EN ISO 19085-2:2017)  
Woodworking machines – Safety – Part 2: Horizontal beam panel circular sawing machines (ISO 19085-2:2017; EN ISO 19085-2:2017)

HRN EN ISO 19085-5:2017 en pr  
Strojevi za obradu drveta – Sigurnost – 5. dio: Formatne pile (ISO 19085-5:2017; EN ISO 19085-5:2017)  
Woodworking Machines – Safety – Part 5: Dimension saws (ISO 19085-5:2017; EN ISO 19085-5:2017)

## HZN/TO 569, *Hrana za životinje*

HRN EN 16939:2017 en pr  
Hrana za životinje: Metode uzorkovanja i analize – Dokazivanje tilozina, spiramicina i virginijamicina – Metoda tankoslojne kromatografije i bioautografije (EN 16939:2017)  
Animal feeding stuffs: Methods of sampling and analysis – Detection of tylosin, spiramycin and virginiamycin – Thin-layer chromatography and bioautography (EN 16939:2017)

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

HRN EN 565:2017 en pr  
Planinarska oprema – Trake – Sigurnosni zahtjevi i metode ispitivanja (EN 565:2017)  
Mountaineering equipment – Tape – Safety requirements and test methods (EN 565:2017)

HRN EN 1069-1:2017 en pr  
Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1069-1:2017)  
Water slides – Part 1: Safety requirements and test methods (EN 1069-1:2017)

HRN EN 1069-2:2017 en pr  
Vodeni tobogani – 2. dio: Upute (EN 1069-2:2017)  
Water slides – Part 2: Instructions (EN 1069-2:2017)

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

HRN EN 60061-1:2008/A56:2017 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am56:2017; EN 60061-1:1993/A56:2017)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am56:2017; EN 60061-1:1993/A56:2017)

HRN EN 60061-2:2008/A52:2017 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am52:2017; EN 60061-2:1993/A52:2017)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am52:2017; EN 60061-2:1993/A52:2017)

HRN EN 60061-4:2008/A15:2017 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 4. dio: Smjernice i opće informacije (IEC 60061-4:1990/am15:2017; EN 60061-4:1992/A15:2017)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990/am15:2017; EN 60061-4:1992/A15:2017)

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

HRN HD 60364-1:2010/A11:2017 en pr  
Niskonaponske električne instalacije – 1. dio: Osnovna načela, određivanje općih značajka, definicije (HD 60364-1:2008/A11:2017)  
Low-voltage electrical installations – Part 1: Fundamental principles, assessment of general characteristics, definitions (HD 60364-1:2008/A11:2017)

HRN HD 60364-4-41:2007/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 4-41: Sigurnosna zaštita – Zaštita od električnog udara (HD 60364-4-41:2007/A11:2017)  
Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock (HD 60364-4-41:2007/A11:2017)

HRN HD 60364-4-46:2016/A11:2017 en pr  
Električne instalacije zgrada – Dio 4-46: Sigurnosna zaštita – Odvajanje i sklapanje (HD 60364-4-46:2016/A11:2017)  
Low-voltage electrical installations – Part 4-46: Protection for safety – Isolation and switching (HD 60364-4-46:2016/A11:2017)

HRN HD 60364-5-51:2010/A12:2017 en pr  
Električne instalacije zgrada – Dio 5-51: Odabir i ugradnja električne opreme – Zajednička pravila (HD 60364-5-51:2009/A12:2017)  
Electrical installations of buildings – Part 5-51: Selection and erection of electrical equipment – Common rules (HD 60364-5-51:2009/A12:2017)

HRN HD 60364-5-53:2016/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradnja električne opreme – Sklopni i upravljački uređaji (HD 60364-5-53:2015/A11:2017)  
Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear (HD 60364-5-53:2015/A11:2017)

HRN HD 60364-5-537:2016/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradnja električne opreme – Uređaji za zaštitu, odvajanje, sklapanje, upravljanje i nadzor – Točka 537: Odvajanje i sklapanje (HD 60364-5-537:2016/A11:2017)  
Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Devices for protection, isolation, switching, control and monitoring – Clause 537: Isolation and switching (HD 60364-5-537:2016/A11:2017)

HRN HD 60364-5-54:2012/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 5-54: Odabir i ugradnja električne opreme – Uzemljenja i zaštitni vodiči (HD 60364-5-54:2011/A11:2017)  
Low-voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements and protective conductors (HD 60364-5-54:2011/A11:2017)

HRN HD 60364-5-559:2013/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 5-559: Odabir i ugradnja električne opreme – Svjetiljke i instalacije rasvjete (HD 60364-5-559:2012/A11:2017)  
Low-voltage electrical installations – Part 5-559: Selection and erection of electrical equipment – Luminaires and lighting installations (HD 60364-5-559:2012/A11:2017)

HRN HD 60364-5-56:2011/A12:2017 en pr  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (HD 60364-5-56:2010/A12:2017)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (HD 60364-5-56:2010/A12:2017)

HRN HD 60364-6:2016/A12:2017 en pr  
Niskonaponske električne instalacije – 6. dio: Provjeravanje (HD 60364-6:2016/A12:2017)  
Low-voltage electrical installations – Part 6: Verification (HD 60364-6:2016/A12:2017)

HRN HD 60364-7-701:2007/A12:2017 en pr  
Niskonaponske električne instalacije – Dio 7-701: Zahtjevi za posebne instalacije ili prostore – Prostor s kadom ili tušem (HD 60364-7-701:2007/A12:2017)  
Low-voltage electrical installations – Part 7-701: Requirements for special installations or locations – Locations containing a bath or shower (HD 60364-7-701:2007/A12:2017)

HRN HD 60364-7-704:2007/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 7-704: Zahtjevi za posebne instalacije ili prostore – Instalacije gradilišta i rušilišta (HD 60364-7-704:2007/A11:2017)  
Low-voltage electrical installations – Part 7-704: Requirements for special installations or locations – Construction and demolition site installations (HD 60364-7-704:2007/A11:2017)

HRN HD 60364-7-705:2007/A12:2017 en pr  
Niskonaponske električne instalacije – Dio 7-705: Zahtjevi za posebne instalacije ili prostore – Poljodjelske i vrtlarke prostorije (HD 60364-7-705:2007/A12:2017)  
Low-voltage electrical installations – Part 7-705: Requirements for special installations or locations – Agricultural and horticultural premises (HD 60364-7-705:2007/A12:2017)

HRN HD 60364-7-708:2010/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za kamp prikolice, šatore i slični prostori (HD 60364-7-708:2009/A11:2017)  
Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations (HD 60364-7-708:2009/A11:2017)

HRN HD 60364-7-709:2010/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 7-709: Zahtjevi za posebne instalacije ili prostore – Marine i slični prostori (HD 60364-7-709:2009/A11:2017)  
Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Marinas and similar locations (HD 60364-7-709:2009/A11:2017)

HRN HD 60364-7-715:2013/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 7-715: Zahtjevi za posebne instalacije ili prostore – Instalacije rasvjete malog napona (HD 60364-7-715:2012/A11:2017)  
Low-voltage electrical installations – Part 7-715: Requirements for special installations or locations – Extra-low-voltage lighting installations (HD 60364-7-715:2012/A11:2017)

HRN HD 60364-7-718:2014/A12:2017 en pr  
Niskonaponske električne instalacije – Dio 7-718: Zahtjevi za posebne instalacije ili prostore – Javne ustanove i mjesta rada (HD 60364-7-718:2013/A12:2017)  
Low-voltage electrical installations – Part 7-718: Requirements for special installations or locations – Communal facilities and workplaces (HD 60364-7-718:2013/A12:2017)

HRN HD 60364-7-729:2009/A11:2017 en pr  
Niskonaponske električne instalacije – Dio 7-729: Zahtjevi za posebne instalacije ili prostore – Prolazi za pogon i održavanje (HD 60364-7-729:2009/A11:2017)  
Low-voltage electrical installations – Part 7-729: Requirements for special installations or locations – Operating or maintenance gangways (HD 60364-7-729:2009/A11:2017)

HRN HD 60364-7-740:2007/A11:2017 en pr  
Električne instalacije zgrada – Dio 7-740: Zahtjevi za posebne instalacije ili prostore – Privremene električne instalacije za građevine, zabavne naprave i paviljone na sajmištima, zabavnim parkovima i cirkusima (HD 60364-7-740:2006/A11:2017)  
Electrical installations of buildings – Part 7-740: Requirements for special installations or locations – Temporary electrical installations for structures, amusement devices and booths at fairs, amusement parks and circuses (HD 60364-7-740:2006/A11:2017)

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

HRN EN 62586-2:2017 en pr  
Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017; EN 62586-2:2017)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017; EN 62586-2:2017)

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

HRN EN 62680-3-1:2017 en pr  
Sučelja univerzalne serijske sabirnice za podatke i napajanje – Dio 3-1: Specifikacija univerzalne serijske sabirnice 3.1 (IEC 62680-3-1:2017; EN 62680-3-1:2017)  
Universal Serial Bus interfaces for data and power – Part 3-1: Universal Serial Bus 3.1 Specification (IEC 62680-3-1:2017; EN 62680-3-1:2017)

HRN EN 62943:2017 en pr  
Sustav vidljive signalne rasvjete za multimedijске aplikacije (IEC 62943:2017; EN 62943:2017)  
Visible light beacon system for multimedia applications (IEC 62943:2017; EN 62943:2017)

HRN EN 62944:2017 en pr  
Audio, video i multimedijски sustavi i oprema – Pristupačnost digitalne televizije – Funkcijske specifikacije (IEC 62944:2016; EN 62944:2017)  
Audio, video and multimedia systems and equipment – Digital television accessibility – Functional specifications (IEC 62944:2016; EN 62944:2017)

### **HZN/TU M1, Metalni materijali 1**

HRN EN ISO 4496:2017 en pr  
Metalni prah – Određivanje netopljivoga udjela kiseline u prahu željeza, bakra, kositra i bronce (ISO 4496:2017; EN ISO 4496:2017)  
Metallic powders – Determination of acid-insoluble content in iron, copper, tin and bronze powders (ISO 4496:2017; EN ISO 4496:2017)

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

HRN EN ISO 10555-6:2017 en pr  
Intravaskularni kateteri – Sterilni i jednokratni kateteri – 6. dio: Potkožni priključci za kateter (ISO 10555-6:2015; EN ISO 10555-6:2017)  
Intravascular catheters – Sterile and single-use catheters – Part 6: Subcutaneous implanted ports (ISO 10555-6:2015; EN ISO 10555-6:2017)

HRN EN ISO 22112:2017 en pr  
Stomatologija – Umjetni zubi za zubne proteze (ISO 22112:2017; EN ISO 22112:2017)  
Dentistry – Artificial teeth for dental prostheses (ISO 22112:2017; EN ISO 22112:2017)

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

HRN EN 2267-009:2017 en pr  
Zrakoplovstvo – Kabeli, električni, opće namjene – Radne temperature između -55 °C i 260 °C – Dio 009: DRA porodica, jednožilni i višežilni sklop – Norma za proizvod (EN 2267-009:2017)  
Aerospace series – Cables, electrical, for general purpose – Operating temperatures between -55 °C and 260 °C – Part 009: DRA family, single and multicore assembly – Product standard (EN 2267-009:2017)

HRN EN 2267-010:2017 en pr  
Zrakoplovstvo – Kabeli, električni, opće namjene – Radna temperatura između -55 °C i 260 °C – Dio 010: DR porodica, za ispis UV laserskim pišaćem – Norma za proizvod (EN 2267-010:2017)  
Aerospace series – Cables, electrical, for general purpose – Operating temperatures between -55 °C and 260 °C – Part 010: DR family, single UV laser printable – Product standard (EN 2267-010:2017)

HRN EN 2287:2017 en pr  
Zrakoplovstvo – Čahure izrađene od običnog čelika otpornog na koroziju sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2287:2017)  
Aerospace series – Bushes, plain corrosion resisting steel with self-lubricating liner – Dimensions and loads (EN 2287:2017)

HRN EN 4652-220:2017 en pr  
Zrakoplovstvo – Koaksijalne radiofrekvencijske spojnice – 220. dio: Tip 2, TNC sučelje – Spajanje krimpanjem – Ravni utikač – Norma za proizvod (EN 4652-220:2017)  
Aerospace series – Connectors, coaxial, radio frequency – Part 220: Type 2, TNC interface – Crimp version – Straight plug – Product standard (EN 4652-220:2017)

HRN EN 6059-503:2017 en pr  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 503. dio: Porast temperature zbog nazivne struje unesene u navlaku (EN 6059-503:2017)  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 503: Temperature rise due to rated current injected on the sleeve (EN 6059-503:2017)

HRN EN 16603-10-24:2017 en pr  
Svemirsko inženjerstvo – Upravljanje sučeljima (EN 16603-10-24:2017)  
Space engineering – Interface management (EN 16603-10-24:2017)

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

HRN EN 50090-3-4:2017 en pr  
Home and Building Electronic Systems (HBES) – Part 3-4: Secure Application Layer, Secure Service, Secure configuration and security Resources (EN 50090-3-4:2017)

HRN EN 50288-12-1:2017 en pr  
Višežilni metalni kabeli za uporabu u analognim i digitalnim komunikacijama i upravljanju – Dio 12-1: Specifikacija za oklopljene kabele za primjenu od 1 MHz do 2 000 MHz – Kabeli etažnog razvoda i kabeli okosnice zgrade (EN 50288-12-1:2017)  
Multi-element metallic cables used in analogue and digital communications and control – Part 12-1: Sectional specification for screened cables characterised from 1 MHz up to 2 000 MHz – Horizontal and building backbone cables (EN 50288-12-1:2017)



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

prEN 17163 en  
Pulp, paper and board – Determination of primary aromatic amines (PAA) in a water extract by a LC/MS/MS method

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

prEN ISO 8384 en  
Ships and marine technology – Dredgers – Vocabulary (ISO/DIS 8384:2017)  
Brodovi i pomorska tehnologija – Jaruzala – Terminološki rječnik (ISO/DIS 8384:2017)

prEN ISO 8385 en  
Ships and marine technology – Dredgers – Classification (ISO/DIS 8385:2017)  
Brodovi i pomorska tehnologija – Jaruzala – Razredba (ISO/DIS 8385:2017)

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

EN 54-29:2015/prA1 en  
Fire detection and fire alarm systems – Part 29: Multi-sensor fire detectors – Point detectors using a combination of smoke and heat sensors  
Sustavi za otkrivanje i dojavu požara – 29. dio: Multisenzorski detektori požara – Točkasti detektori s kombinacijom osjetnika dima i osjetnika topline

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

EN 15940:2016/prA1:2017 en  
Automotive fuels – Paraffinic diesel fuel from synthesis or hydrotreatment – Requirements and test methods  
Goriva za motorna vozila – Parafinska dizelska goriva dobivena sintezom ili hidrobradom – Zahtjevi i metode ispitivanja

EN 16709:2015/prA1:2017 en  
Automotive fuels – High FAME diesel fuel (B20 and B30) – Requirements and test methods  
Goriva za motorna vozila – Dizelsko gorivo s velikom količinom FAME (B20 ili B30) – Zahtjevi i metode ispitivanja

EN 16734:2016/prA1:2017 en  
Automotive fuels – Automotive B10 diesel fuel – Requirements and test methods  
Goriva za motorna vozila – Dizelsko gorivo B10 – Zahtjevi i metode ispitivanja

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

prEN ISO 10399 en  
Sensory analysis – Methodology – Duo-trio test (ISO/FDIS 10399:2017)  
Senzorske analize – Metodologija – Duo-trio test (ISO/FDIS 10399:2017)

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

prEN ISO 16283-2 en  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 2: Impact sound insulation (ISO/DIS 16283-2:2017)  
Akustika – Terensko mjerenje zvučne izolacije zgrada i građevnih dijelova zgrade – 2. dio: Udarne zvučna izolacija (ISO/DIS 16283-2:2017)

prEN ISO 17201-1 en  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement (ISO/DIS 17201-1:2017)  
Akustika – Buka streljana – 1. dio: Određivanje praska koji nastaje na izlazu cijevi mjerenjem (ISO/DIS 17201-1:2017)

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

prEN ISO 2401 en  
Welding consumables – Covered electrodes – Determination of the efficiency, metal recovery and deposition coefficient (ISO/DIS 2401:2017)

prEN ISO 5171 en  
Gas welding equipment – Pressure gauges used in welding; cutting and allied processes (ISO/DIS 5171:2017)  
Oprema za plinsko zavarivanje – Manometri koji se upotrebljavaju pri zavarivanju, rezanju i srodnim postupcima (ISO/DIS 5171:2017)

prEN ISO 15011-4 en  
Health and safety in welding and allied processes – Laboratory method for sampling fume and gases – Part 4: Fume data sheets (ISO/FDIS 15011-4:2017)  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Laboratorijska metoda za uzorkovanje dima i plinova – 4. dio: Obrasci za podatke o dimu (ISO/FDIS 15011-4:2017)

prEN ISO 15620 en  
Welding – Friction welding of metallic materials (ISO/DIS 15620:2017)  
Zavarivanje – Zavarivanje metalnih materijala trenjem (ISO/DIS 15620:2017)

prEN ISO 17660-1 en  
Welding – Welding of reinforcing steel – Part 1: Load-bearing welded joints (ISO/DIS 17660-1:2017)  
Zavarivanje – Zavarivanje čelika za armiranje – 1. dio: Nosivi zavareni spojevi (ISO/DIS 17660-1:2017)

prEN ISO 17660-2 en  
Welding – Welding of reinforcing steel – Part 2: Non load-bearing welded joints (ISO/DIS 17660-2:2017)  
Zavarivanje – Zavarivanje čelika za armiranje – 2. dio: Nenosiivi zavareni spojevi (ISO/DIS 17660-2:2017)

prEN ISO 20601 en  
Non-destructive testing of welds – Ultrasonic testing – Use of automated phased array technology for steel components with small wall thickness (ISO/DIS 20601:2017)

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

prEN 12350-1 en  
Testing fresh concrete – Part 1: Sampling and common apparatus  
Ispitivanje svježega betona – 1. dio: Uzorkovanje

prEN 12350-2 en  
Testing fresh concrete – Part 2: Slump-test  
Ispitivanje svježega betona – 2. dio: Ispitivanje slijeganjem

prEN 12350-3 en  
Testing fresh concrete – Part 3: Vebe test  
Ispitivanje svježega betona – 3. dio: Vebe ispitivanje

prEN 12350-4 en  
Testing fresh concrete – Part 4: Degree of compactability  
Ispitivanje svježega betona – 4. dio: Stupanj zbijenosti

prEN 12350-5 en  
Testing fresh concrete – Part 5: Flow table test  
Ispitivanje svježega betona – 5. dio: Ispitivanje rasprostiranjem

prEN 12350-6 en  
Testing fresh concrete – Part 6: Density  
Ispitivanje svježega betona – 6. dio: Gustoća

prEN 12350-7 en  
Testing fresh concrete – Part 7: Air content – Pressure methods  
Ispitivanje svježega betona – 7. dio: Sadržaj pora – Tlačne metode

prEN 12350-8 en  
Testing fresh concrete – Part 8: Self-compacting concrete – Slump-flow test  
Ispitivanje svježega betona – 8. dio: Samozbijajući beton – Ispitivanje rasprostiranja slijeganjem

prEN 12390-2 en  
Testing hardened concrete – Part 2: Making and curing specimens for strength tests  
Ispitivanje očvrtnuloga betona – 2. dio: Izrada i njega ispitnih uzoraka za ispitivanje čvrstoća

prEN 12390-3 en  
Testing hardened concrete – Part 3: Compressive strength of test specimens  
Ispitivanje očvrtnuloga betona – 3. dio: Tlačna čvrstoća ispitnih uzoraka

prEN 12390-5 en  
Testing hardened concrete – Part 5: Flexural strength of test specimens  
Ispitivanje očvrtnuloga betona – 5. dio: Čvrstoća ispitnih uzoraka na savijanje

prEN 12390-7 en  
Testing hardened concrete – Part 7: Density of hardened concrete  
Ispitivanje očvrtnuloga betona – 7. dio: Gustoća očvrtnuloga betona

prEN 12390-8 en  
Testing hardened concrete – Part 8: Depth of penetration of water under pressure  
Ispitivanje očvrtnuloga betona – 8. dio: Dubina prodora vode pod tlakom

prEN 12504-1 en  
Testing concrete in structures – Part 1: Cored specimens – Taking; examining and testing in compression  
Ispitivanje betona u konstrukcijama – 1. dio: Izvađeni ispitni uzorci – Uzimanje, pregled i ispitivanje tlačne čvrstoće

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

prEN 196-11 en  
Methods of testing cement – Part 11: Heat of hydration – Isothermal Conduction Calorimetry method

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

EN ISO 10819:2013/prA1 en  
Mechanical vibration and shock – Hand-arm vibration – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand (ISO 10819:2013/DAMd 1:2017)  
Mehaničke vibracije i udari – Vibracije ruke – Metoda mjerenja i vrednovanje prenosa vibracija rukavica na dlan ruke (ISO 10819:2013/DAMd 1:2017)

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

prEN 17150 en  
Plastics piping systems for non-pressure underground conveyance and storage of non-potable water – Test method for determination of short term compression strength of boxes

prEN 17151 en  
Plastics piping systems for non-pressure underground conveyance and storage of non-potable water – Test method for determination of long term compression strength of boxes

prEN 17152-1 en  
Plastics piping systems for non-pressure underground conveyance and storage of non-potable water – Boxes used for infiltration, attenuation and storage systems – Part 1: Specifications for storm water boxes made of PP and PVC

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

ISO 9096:2017 en  
Stationary source emissions – Manual determination of mass concentration of particulate matter  
Emisije iz nepokretnih izvora – Ručna metoda određivanja masene koncentracije čestica

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

prEN 71-14 en  
Safety of toys – Part 14: Trampolines for domestic use  
Sigurnost igraćaka – 14. dio: Trampolini za kućnu uporabu

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

FprCEN ISO/TS 14027 en  
Environmental labels and declarations – Development of product category rules (ISO/TS 14027:2017)  
Znakovi i izjave o zaštiti okoliša – Razrada pravila za kategorije proizvoda (ISO/TS 14027:2017)

prEN ISO 14034 en  
Environmental management – Environmental technology verification (ETV) (ISO 14034:2016)  
Upravljanje okolišem – Verifikacija tehnologija s obzirom na zaštitu okoliša (ETV) (ISO 14034:2016)

prEN ISO 14052 en  
Environmental management – Material flow cost accounting – Guidance for practical implementation in a supply chain (ISO 14052:2017)  
Upravljanje okolišem – Obračun troškova protoka materijala – Upute za u praktičnu primjenu u opskrbnom lancu (ISO 14052:2017)

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

prEN ISO 19107 en  
Geographic information – Spatial schema (ISO/DIS 19107:2017)  
Geoinformacije – Prostorna shema (ISO/DIS 19107:2017)

prEN ISO 19146 en  
Geographic information – Cross-domain vocabularies (ISO/DIS 19146:2017)  
Geoinformacije – Međudomenski rječnici (ISO/DIS 19146:2017)

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

prEN 17156 en  
Cosmetics – Analytical methods – LC/UV method for the identification and quantitative determination in cosmetic products of the 22 organic UV filters in use in the EU

#### **HZN/TO 301, Upravljanje energijom i ušteda energije**

prEN ISO 50001 en  
Energy management systems – Requirements with guidance for use (ISO/DIS 50001:2017)  
Sustavi upravljanja energijom – Zahtjevi s uputama za uporabu (ISO/DIS 50001:2017)

#### **HZN/TO 502, Plinski uređaji**

prEN 30-2-2 en  
Domestic cooking appliances burning gas – Part 2-2: Rational use of energy – Appliances having forced-convection ovens and/or grills  
Kućanski plinski uređaji za kuhanje – Dio 2-2: Racionalno korištenje energije – Uređaji s prisilnom cirkulacijom zraka u pećnicama s ili bez roštilja

prEN 88-3 en  
Safety and control devices for gas burners and gas burning appliances – Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types

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

prEN ISO 643 en  
Steels – Micrographic determination of the apparent grain size (ISO/DIS 643:2017)  
Čelici – Mikrografsko određivanje prividne veličine zrna (ISO/DIS 643:2017)

prEN ISO 8251 rev en  
Anodizing of aluminium and its alloys – Measurement of abrasion resistance of anodic oxidation coatings (ISO/DIS 8251:2017)  
Anodizacija aluminija i njegovih legura – Mjerenje otpornosti na abraziju prevlaka dobivenih anodnom oksidacijom (ISO/DIS 8251:2017)

prEN 10058 en  
Hot rolled flat steel bars and steel wide flats for general purposes – Dimensions and tolerances on shape and dimensions

prEN 10225-1 en  
Weldable structural steels for fixed offshore structures – Technical delivery conditions – Part 1: Plates

prEN 10225-2 en  
Weldable structural steels for fixed offshore structures – Technical delivery conditions – Part 2: Sections

prEN 10225-3 en  
Weldable structural steels for fixed offshore structures – Technical delivery conditions – Part 3: Hot finished hollow sections

prEN ISO 10893-6 rev en  
Non-destructive testing of steel tubes – Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO/DIS 10893-6:2017)  
Nerazorno ispitivanje čeličnih cijevi – 6. dio: Radiografsko ispitivanje šavnog zavara elektrolučno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO/DIS 10893-6:2017)

prEN ISO 10893-7 en  
Non-destructive testing of steel tubes – Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO/DIS 10893-7:2017)  
Nerazorno ispitivanje čeličnih cijevi – 7. dio: Digitalno radiografsko ispitivanje šavnog zavara elektrolučno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO/DIS 10893-7:2017)

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

prEN ISO 11961 en  
Petroleum and natural gas industries – Steel drill pipe (ISO/DIS 11961:2017)  
Industrija nafte i prirodnoga plina – Čelična cijev za bušenje (ISO/DIS 11961:2017)

prEN ISO 19277 en  
Petroleum, petrochemical and natural gas industries – Qualification testing and acceptance criteria for protective coating systems under insulation (ISO/DIS 19277:2017)

prEN ISO 19903 en  
Petroleum and natural gas industries – Concrete offshore structures (ISO/DIS 19903:2017)  
Industrija nafte i prirodnoga plina – Stabilne betonske odobalne konstrukcije (ISO/DIS 19903:2017)

prEN ISO 19906 en  
Petroleum and natural gas industries – Arctic offshore structures (ISO/DIS 19906:2017)  
Industrija nafte i prirodnoga plina – Odobalni objekti na Arktiku (ISO/DIS 19906:2017)

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

prEN ISO 17480 en  
Packaging – Accessible design – Ease of opening (ISO 17480:2015)

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

prEN 14388 en  
Road traffic noise reducing devices – Specifications  
Barijere za zaštitu od buke s cesta – Specifikacije

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

prEN 13279-1 en  
Gypsum binders and gypsum plasters – Part 1: Definitions and requirements  
Veziva i žbuke na osnovi gipsa – 1. dio: Definicije i zahtjevi

prEN 13658-1 en  
Metal lath and beads – Definitions, requirements and test methods – Part 1: Internal plastering  
Metalni profili i nosači za žbuku – Definicije, zahtjevi i ispitne metode – 1. dio: Unutarnje žbuke

prEN 13658-2 en  
Metal lath and beads – Definitions, requirements and test methods – Part 2: External rendering  
Metalni profili i nosači za žbuku – Definicije, zahtjevi i ispitne metode – 2. dio: Vanjske žbuke

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

prEN ISO 14906 en  
Electronic fee collection – Application interface definition for dedicated short-range communication (ISO/DIS 14906:2017)  
Elektronička naplata – Definicije programskih sučelja za dodijeljeno kratkovalno područje komunikacije (ISO/DIS 14906:2017)

FprCEN/TS 17148 en  
Intelligent Transport Systems – eSafety – ProForma eCall Agreement between TPSP and ERO

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

prEN 1849-2 en  
Flexible sheets for waterproofing – Determination of thickness and mass per unit area – Part 2: Plastics and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje debljine i mase po jedinici površine – 2. dio: Plastične i elastomerne hidroizolacijske trake

prEN 12310-2 en  
Flexible sheets for waterproofing – Determination of resistance to tearing – Part 2: Plastic and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje otpornosti na trganje – 2. dio: Plastične i elastomerne hidroizolacijske trake za krovove

prEN 14509-2 en  
Double skin metal faced insulating panels – Factory made products – Specifications – Part 2: Structural applications – Fixings and potential uses of stabilization of individual structural elements

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

prEN 13272-1 en  
Railway applications – Electrical lighting for rolling stock in public transport systems – Part 1: Mainline Rail

prEN 13272-2 en  
Railway applications – Electrical lighting for rolling stock in public transport systems – Part 2: Urban rail systems

prEN 14752 en  
Railway applications – Bodyside entrance systems for rolling stock  
Željeznički sustav – Sustavi bočnog ulazjenja za željeznička vozila

prEN 15153-1 en  
Railway applications – External visible and audible warning devices – Part 1: Head, marker and tail lamps for mainline rail

prEN 15153-2 en  
Railway applications – External visible and audible warning devices – Part 2: Warning horns for mainline rail

prEN 15153-3 en  
Railway applications – External visible and audible warning devices – Part 3: External visible warning devices for urban rail

prEN 15153-4 en  
Railway applications – External visible and audible warning devices – Part 4: Warning horns for urban rail

prEN 15355 en  
Railway applications – Braking – Distributor valves and distributor-isolating devices  
Željeznički sustav – Kočenje – Rasporednici

prEN 15610 en  
Railway applications – Acoustics – Rail and wheel roughness measurement related to rolling noise generation

prEN 17149 en  
Railway Applications – Fatigue strength assessment of railway vehicle structures based on cumulative damage

prEN 17168 en  
Railway applications – Platform barrier systems

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

EN 438-2:2016/prA1 en  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 2: Determination of properties  
Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajeno se nazivaju laminati) – 2. dio: Određivanje svojstava

prEN 438-8 en  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 8: Classification and specifications for design laminates  
Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajeno se nazivaju laminati) – 8. dio: Razredba i specifikacije za dizajniranje laminata

prEN ISO 10619-1 en  
Rubber and plastics hoses and tubing – Measurement of flexibility and stiffness – Part 1: Bending tests at ambient temperature (ISO/FDIS 10619-1:2017)  
Gumena i plastična crijeva i cijevi – Mjerenje savitljivosti i krutosti – 1. dio: Savojna ispitivanja pri temperaturi okoline (ISO/FDIS 10619-1:2017)

prEN ISO 10960 en  
Rubber and plastics hoses – Assessment of ozone resistance under dynamic conditions (ISO/FDIS 10960:2017)  
Gumena i plastična crijeva – Procjena dinamičke postojanosti na ozon (ISO/FDIS 10960:2017)

prEN ISO 28017 en  
Rubber hoses and hose assemblies; wire or textile reinforced, for dredging applications – Specification (ISO/FDIS 28017:2017)  
Gumena crijeva i crijevni pribori ojačani žicom ili tekstilom za primjene u jaruženju – Specifikacija (ISO/FDIS 28017:2017)

## HZN/TO 533, *Kolničke konstrukcije*

EN 12697-3:2013/prA1 en  
Bituminous mixtures – Test methods – Part 3: Bitumen recovery: Rotary evaporator

prEN 12697-5 en  
Bituminous mixtures – Test methods – Part 5: Determination of the maximum density

prEN 12697-30 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 30: Specimen preparation by impact compactor  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 30. dio: Priprema uzorka udarnim zbijanjem

prEN 12697-44 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 44: Crack propagation by semi-circular bending test  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 44. dio: Razvoj pukotine ispitivanjem polucilindričnog uzorka na savijanje

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

prEN 1748-2-1 en  
Glass in Building – Special basic products – Glass ceramics – Part 2-1: Definitions and general physical and mechanical properties  
Staklo u graditeljstvu – Specijalni osnovni proizvodi – Staklo-keramika – Dio 2-1: Definicije i opća fizikalna i mehanička svojstva

prEN 1748-2-2 en  
Glass in building – Special basic products – Glass ceramics – Part 2-2: Product standard  
Staklo u graditeljstvu – Specijalni osnovni proizvodi – Staklo-keramika – Dio 2-2: Norma za proizvod

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

prEN 13141-5 en  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 5: Cows and roof outlet terminal devices  
Ventilacija u zgradama – Ispitivanje značajki dijelova/proizvoda za ventilaciju stambenih zgrada – 5. dio: Krovne kape i krovni otvori za zrak

prEN 17166 en  
Fans – Procedures and methods to determine the energy efficiency for the electrical input power range of 125 W up to 500 kW  
Ventilatori – Postupci i metode određivanja energijske učinkovitosti za područje električnog napajanja od 125 W do 500 kW

## HZN/TO 548, *Konstruktivski eurokodovi*

EN 1992-1-2:2004/prA1:2017 en  
Eurocode 2: Design of concrete structures – Part 1-2: General rules – Structural fire design  
Eurokod 2: Projektiranje betonskih konstrukcija – Dio 1-2: Opća pravila – Proračun konstrukcija na djelovanje požara

## HZN/TO 553, *Predgotovljeni proizvodi*

prEN 997 en  
WC pans and WC suites with integral trap  
WC školjke i WC garniture s ugrađenim sifonom

EN 13310:2015/prA1:2017 en  
Kitchen sinks – Functional requirements and test methods  
Sudoperi – Funkcionalni zahtjevi i metode ispitivanja

EN 13407:2015/prA1:2017 en  
Wall-hung urinals – Functional requirements and test methods  
Zidni pisoari – Funkcionalni zahtjevi i metode ispitivanja

prEN 14055 en  
WC and urinal flushing cisterns  
Spremnici za ispiranje WC-a i pisoara

EN 14296:2015/prA1 en  
Sanitary appliances – Communal washing troughs  
Sanitarni uređaji – Zajednička korita za pranje

EN 14528:2015/prA1 en  
Bidets – Functional requirements and test methods  
Bidei – Funkcionalni zahtjevi i metode ispitivanja

EN 14688:2015/prA1 en  
Sanitary appliances – Wash basins – Functional requirements and test methods  
Sanitarni uređaji – Umivaonici – Funkcionalni zahtjevi i metode ispitivanja

## HZN/TO 555, *Medicinski proizvodi*

EN ISO 11137-1:2015/prA2 en  
Sterilization of health care products – Radiation – Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (ISO 11137-1:2006/DAMd 2:2017)

prEN ISO 11138-7 en  
Sterilization of health care products – Biological indicators – Part 7: Self-contained biological indicators for moist heat sterilization (ISO/DIS 11138-7:2017)

prEN ISO 11139 en  
Sterilization of health care products – Vocabulary – Terms used in sterilization and related equipment and process standards (ISO/DIS 11139:2017)

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

prEN ISO 4007 en  
Personal protective equipment – Eye and face protection – Vocabulary (ISO/DIS 4007:2017)  
Osobna zaštitna oprema – Zaštita očiju i lica – Terminološki rječnik (ISO/DIS 4007:2017)

## HZN/TO 557, *Zaštitna odjeća*

prEN 343 en  
Protective clothing – Protection against rain  
Zaštitna odjeća – Zaštita od kiše

EN 1073-1:2016/prA1 en  
Protective clothing against solid airborne particles including radioactive contamination – Part 1: Requirements and test methods for compressed air line ventilated protective clothing, protecting the body and the respiratory tract  
Odjeća za zaštitu od čvrstih čestica raspršenih u zraku uključujući radioaktivnu kontaminaciju – 1. dio: Zahtjevi i metode ispitivanja za zaštitnu odjeću s cijevnim prozračivanjem stlačenim zrakom, koja štiti tijelo i dišne organe



## HZN/TO 560, *Tekstilni proizvodi*

prEN ISO 1833-6 en

Textiles – Quantitative chemical analysis – Part 6: Mixtures of viscose, certain types of cupr, modal or lyocell with certain other fibres (method using formic acid and zinc chloride) (ISO/DIS 1833-6:2017)

Tekstil – Kvantitativna kemijska analiza – 6. dio: Mješavine viskoznog vlakna ili određenih tipova bakrenih, modalnih ili liocelnih vlakana s pamukom (metoda s uporabom mravlje kiseline i cink-klorida) (ISO/DIS 1833-6:2017)

prEN 16711-3 en

Textiles – Determination of metal content – Determination of lead release by artificial saliva solution

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

prEN ISO 10460 en

Gas cylinders – Welded aluminium-alloy, carbon and stainless steel gas cylinders – Periodic inspection and testing (ISO/DIS 10460:2017)

Plinske boce – Plinske boce od zavarene aluminijske legure, ugljičnih i nehrđajućih čelika – Periodični pregled i ispitivanje (ISO/DIS 10460:2017)

prEN 13487 en

Heat exchanger – Forced convection air cooled refrigerant condensers and dry coolers – Sound measurement  
Izmjenjivači topline – Kondenzatori rashladnog sredstva i suhih hladnjaka hlađenih prisilnom konvekcijom zraka – Mjerenje buke

EN 16728:2016/prA1 en

LPG equipment and accessories – Transportable refillable LPG cylinders other than welded and brazed steel cylinders – Periodic inspection

Oprema i pribor za UNP – Prenosive, ponovno punjive boce za UNP osim zavarenih i tvrdo lemljenih čeličnih boca – Periodični pregled

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

prEN 13236 en

Safety requirements for superabrasive products  
Sigurnosni zahtjevi za superabrazive

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

prEN 17164 en

Climbing walls for use in the water area of public used swimming pools – Safety and operational requirements to the place of installation

## HZN/TO E2, *Rotacijski strojevi*

prEN 60034-14:2017 en

Rotating electrical machines – Part 14: Mechanical vibration of certain machines with shaft heights 56 mm and higher – Measurement, evaluation and limits of vibration severity (IEC 60034-14:201X)

Rotacijski električni strojevi – 14. dio: Mehaničke vibracije strojeva visine vratila 56 mm i više – Mjerenje, ocjena i granice žestine vibracija (IEC 60034-14:201X)

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

prEN 60156:2017 en

Insulating liquids – Determination of the breakdown voltage at power frequency – Test method (IEC 60156:201X)  
Izolacijske tekućine – Određivanje probojnog napona kod radne frekvencije – Ispitna metoda (IEC 60156:201X)

## HZN/TO E13, *Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom*

prEN 62056-8-4:2017 en

Electricity metering data exchange – The DLMS/COSEM suite – Part 8-4: Communication profiles for narrow-band OFDM PLC PRIME neighbourhood networks (IEC 62056-8-4:201X)

## HZN/TO E14, *Energetski transformatori*

FprEN 50588-2 en

Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV – Part 2: Transformers with cable boxes on the high-voltage and/or low-voltage side – General requirements for transformers with rated power less than or equal to 3 150 kVA

FprEN 50588-3 en

Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV – Part 3: Transformers with cable boxes on the high-voltage and/or low-voltage side – Cable boxes type 1 for use on transformers meeting the requirements of EN 50588-2

FprEN 50588-4 en

Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV – Part 4: Transformers with cable boxes on the high-voltage and/or low-voltage side – Cable boxes type 2 for use on transformers meeting the requirements of EN 50588-2

## HZN/TO E20, *Električni kabeli*

EN 60811-501:2012/prA1:2017 en

Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds (IEC 60811-501:2012/am1:201X)

Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 501. dio: Mehanička ispitivanja – Ispitivanja za određivanje mehaničkih značajki smjesa za izolacije i plašteve (IEC 60811-501:2012/am1:201X)

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

EN 60669-2-1:2004/prA2:2015/FprAA:2017 en

Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-1: Posebni zahtjevi – Elektroničke sklopke

EN 62752:2016/prA1:2017 en

In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD) (IEC 62752:2016/am1:201X)  
Upravljački i zaštitni uređaj unutar kabela (IC-CPD) za punjenje električnih cestovnih vozila načinom "2" (IEC 62752:2016/am1:201X)

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

EN 60188:2001/prAA:2017 en

High-pressure mercury vapour lamps – Performance specifications  
Visokotlačne živine žarulje – Izvedbeni zahtjevi

EN 60662:2012/prAA:2017 en

High-pressure sodium vapour lamps – Performance specifications  
Visokotlačne natrijeve žarulje – Izvedbeni zahtjevi

## HZN/TO E42, *Visokonaponska ispitivanja*

prEN 61083-3:2017 en

Instruments and software used for measurement in high-voltage and high-current tests – Part 3: Requirements for hardware for tests with alternating and direct voltages and currents (IEC 61083-3:201X)

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

EN 60335-2-54:2008/prA12:2017 en

Household and similar electrical appliances – Safety – Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam  
Kućanski i slični električni aparati – Sigurnost – Dio 2-54: Posebni zahtjevi za kućanske aparate za čišćenje površina primjenom tekućina ili pare

EN 60335-2-86:2003/A12:2017 en

Household and similar electrical appliances – Safety – Part 2-86: Particular requirements for electric fishing machines  
Kućanski i slični električni aparati – Sigurnost – Dio 2-86: Posebni zahtjevi za aparate za pećanje

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

prHD 60364-7-722:2017 en  
Low-voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supplies for electric vehicles (IEC 60364-7-722:201X)  
Niskonaponske električne instalacije – Dio 7-722: Zahtjevi za posebne instalacije ili prostore – Napajanje električnih vozila (IEC 60364-7-722:201X)

prHD 60364-8-2:2017 en  
Low-voltage electrical installations – Part 8-2: Smart Low-Voltage Electrical Installations (IEC 60364-8-2:201X)  
Niskonaponske električne instalacije – Dio 8-2: Pametne niskonaponske električne instalacije (IEC 60364-8-2:201X)

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

EN 62657-2:2017/prA1:2017 en  
Industrial communication networks – Wireless communication networks – Part 2: Coexistence management (IEC 62657-2:2017/am1:201X)  
Industrijske komunikacijske mreže – Bežična komunikacijska mreža – 2. dio: Upravljanje koegzistencijom (IEC 62657-2:2017/am1:201X)

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

prEN 50131-8:2017 en  
Alarm systems – Intrusion and hold-up systems – Part 8: Security fog devices  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – 8. dio: Sigurnosni uređaji za maglu

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

prEN 61993-2:2017 en  
Maritime navigation and radiocommunication equipment and systems – Automatic Identification Systems (AIS) – Part 2: Class A shipborne equipment of the automatic identification system (AIS) – Operational and performance requirements, methods of test and required test results (IEC 61993-2:201X)  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustavi automatske identifikacije (AIS) – 2. dio: Brodska oprema za univerzalni sustav automatske identifikacije (AIS) razreda A – Radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 61993-2:201X)

prEN 62923-1:2017 en  
Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements, methods of testing and required test results (IEC 62923-1:201X)

prEN 62923-2:2017 en  
Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 2: Alert and cluster identifiers and other additional features (IEC 62923-2:201X)

## **HZN/TO E81, Zaštita od munje**

prEN 62305-1:2017 en  
Protection against lightning – Part 1: General principles (IEC 62305-1:201X)  
Zaštita od munje – 1. dio: Opća načela (IEC 62305-1:201X)

prEN 62305-2:2017 en  
Protection against lightning – Part 2: Risk management (IEC 62305-2:201X)  
Zaštita od munje – 2. dio: Upravljanje rizikom (IEC 62305-2:201X)

prEN 62305-3:2017 en  
Protection against lightning – Part 3: Physical damage to structures and life hazard (IEC 62305-3:201X)  
Zaštita od munje – 3. dio: Materijalne štete na građevinama i opasnost za život (IEC 62305-3:201X)

prEN 62305-4:2017 en  
Protection against lightning – Part 4: Electrical and electronic systems within structures (IEC 62305-4:201X)  
Zaštita od munje – 4. dio: Električni i elektronički sustavi unutar građevina (IEC 62305-4:201X)

FprEN 62793:2017 en  
Protection against lightning – Thunderstorm warning systems (IEC 62793:2016)  
Zaštita od munje – Sustav upozorenja na grmljavinske oluje (IEC 62793:2016)

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

prEN 60255-187-1:2017 en  
Measuring relays and protection equipment – Part 187-1: Functional requirements for restrained and unrestrained differential protection of motors, generators and transformers (IEC 60255-187-1:201X)

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

prEN 60268-3:2017 en  
Sound system equipment – Part 3: Amplifiers (IEC 60268-3:201X)  
Oprema audiosustava – 3. dio: Pojačala (IEC 60268-3:201X)

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

EN 55011:2016/prA2:2017 {fragment 1} en  
Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement – Requirements for air-gap wireless power transfer (WPT) (CISPR 11:2015/am2:201X {fragment 1})  
Industrijska, znanstvena i medicinska oprema – Karakteristike radiosmetnja – Granice i metoda mjerenja – Zahtjevi za zračno propadanje (air-gap) bežičnog prijenosa snage (WPT) (CISPR 11:2015/am2:201X {fragment 1})

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

Draft EN 300 019-2-1 V2.2.8:2017 en  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-1: Specification of environmental tests – Storage  
Ekoinženjering (EE) – Uvjeti i ispitivanja telekomunikacijske opreme s obzirom na okoliš – Dio 2-1: Specifikacija ispitivanja s obzirom na okoliš – Pohrana

Draft EN 300 019-2-2 V2.3.6:2017 en  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-2: Specification of environmental tests – Transportation  
Ekoinženjering (EE) – Uvjeti i ispitivanja telekomunikacijske opreme s obzirom na okoliš – Dio 2-2: Specifikacija ispitivanja s obzirom na okoliš – Transport

Draft EN 300 444 V2.4.8:2017 en  
Digital Enhanced Cordless Telecommunications (DECT) – Generic Access Profile (GAP)  
Digitalne poboljšane bežične telekomunikacije (DECT) – Generički pristupni profil (GAP)

Draft EN 300 797 V1.3.1:2017 en  
Digital Audio Broadcasting (DAB) – Distribution interfaces – Service Transport Interface (STI)  
Digitalna audio radiodifuzija (DAB) – Distribucijska sučelja – Servisno transportno sučelje (STI)

Draft EN 301 843-1 V2.2.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 1: Common technical requirements  
Norma za elektromagnetsku kompatibilnost (EMC) za pomorsku radijsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 1. dio: Opći tehnički zahtjevi

Draft EN 301 843-2 V2.2.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 2: Specific conditions for VHF radiotelephone transmitters and receivers  
Norma za elektromagnetsku kompatibilnost (EMC) za pomorsku radijsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 2. dio: Specifični uvjeti za VHF radiotelefonske odašiljače i prijamnike

- Draft EN 301 843-4 V2.2.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 4: Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers  
Norma za elektromagnetsku kompatibilnost (EMC) za pomorsku radijsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 4. dio: Specifični uvjeti za uskopojasne NAVTEX prijajnike s izravnim tiskanjem (NBDP)
- Draft EN 301 843-5 V2.2.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 5: Specific conditions for MF/HF radiotelephone transmitters and receivers  
Norma za elektromagnetsku kompatibilnost (EMC) za pomorsku radijsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 5. dio: Specifični uvjeti za MF/HF radiotelefone odašiljače i prijajnike
- Draft EN 301 843-6 V2.2.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 6: Specific conditions for Earth Stations on board Vessels operating in frequency bands above 3 GHz  
Norma za elektromagnetsku kompatibilnosti (EMC) za radijsku pomorsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 6. dio: Specifični uvjeti za zemaljske postaje na plovilima koje rade u frekvencijskim pojasima iznad 3 GHz
- Draft EN 301 843-7 V1.1.0:2017 en  
ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard for electromagnetic compatibility – Part 7: Specific conditions for Maritime Broadband Radiolink equipment  
Norma za elektromagnetsku kompatibilnosti (EMC) za radijsku pomorsku opremu i službe – Harmonizirana norma za elektromagnetsku kompatibilnost – 7. dio: Specifični uvjeti za opremu pomorske širokopojasne veze
- Draft EN 302 502 V2.1.3:2017 en  
Wireless Access Systems (WAS) – 5,8 GHz fixed broadband data transmitting systems – Harmonised Standard for access to radio spectrum  
Bežični pristupni sustavi (WAS) – 5,8 GHz nepokretni širokopojasni sustavi prijenosa podataka – Harmonizirana norma za pristup radijskom spektru
- Draft EN 303 520 V1.0.0:2017 en  
Short Range Devices (SRD) – Ultra Low Power (ULP) wireless medical capsule endoscopy devices operating in the band 430 MHz to 440 MHz – Harmonised Standard for access to radio spectrum  
Uređaji kratkog dometa (SRD) – Bežične medicinske endoskopske kapsule jako male snage (ULP) koje rade u pojasu od 430 MHz do 440 MHz – Harmonizirana norma za pristup radijskom spektru
- Draft EN 319 401 V2.2.0:2017 en  
Electronic Signatures and Infrastructures (ESI) – General Policy Requirements for Trust Service Providers  
Elektronički potpisi i infrastrukture (ESI) – Zahtjevi općih pravila za vjerodostojne davatelje usluga
- Draft EN 319 411-1 V1.2.0:2017 en  
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 1: General requirements  
Elektronički potpisi i infrastrukture (ESI) – Zahtjevi općih i sigurnosnih pravila za vjerodostojne davatelje usluga izdavanja certifikata – 1. dio: Opći zahtjevi
- Draft EN 319 411-2 V2.2.0:2017 en  
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 2: Requirements for trust service providers issuing EU qualified certificates  
Elektronički potpisi i infrastrukture (ESI) – Zahtjevi općih pravila i zahtjevi sigurnosti za vjerodostojne davatelje usluga izdavanja certifikata – 2. dio: Zahtjevi za vjerodostojne davatelje usluga izdavanja EU kvalificiranih certifikata
- Draft EN 319 412-5 V2.2.0:2017 en  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 5: QCStatements  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 5. dio: QC izjave
- HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1**
- prEN ISO 21043-1 en  
Forensic Sciences – Part 1: Terms, definitions and framework (ISO/DIS 21043-1:2017)
- HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**
- prEN ISO 2812-5 en  
Paints and varnishes – Determination of resistance to liquids – Part 5: Temperature-gradient oven method (ISO/DIS 2812-5:2017)  
Boje i lakovi – Određivanje otpornosti na kapljevine – 5. dio: Metoda u peći sa stupnjevanjem temperature (ISO/DIS 2812-5:2017)
- prEN ISO 4623-1 rev en  
Paints and varnishes – Determination of resistance to filiform corrosion – Part 1: Steel substrates (ISO/DIS 4623-1:2017)  
Boje i lakovi – Određivanje otpornosti na pukotinsku koroziju – 1. dio: Čelične podloge (ISO/DIS 4623-1:2017)
- prEN 16402 en  
Paints and varnishes – Assessment of emissions of substances from coatings into indoor air – Sampling, conditioning and testing  
Boje i lakovi – Procjena emisija tvari iz prevlaka u zatvorenom prostoru – Uzorkovanje, kondicioniranje i ispitivanje
- HZN/TU F1, Osnovne norme 1**
- prEN 17161 en  
Design for All – Accessibility following a Design for All approach in products, goods and services – Extending the range of users
- HZN/TU I2, Strojarstvo 2**
- EN 474-1:2006+A4:2013/prA6 en  
Earth-moving machinery – Safety – Part 1: General requirements  
Strojari za zemljane radove – Sigurnost – 1. dio: Opći zahtjevi
- prEN ISO 7590 en  
Steel cord conveyor belts – Methods for the determination of total thickness and cover thickness (ISO/DIS 7590:2017)  
Transportne trake s čeličnom užadi – Metode za određivanje ukupne debljine i debljine pokriva (ISO/DIS 7590:2017)
- prEN 17088 en  
Side curtains ventilation systems – Safety
- HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**
- prEN ISO 20749:2017 en  
Dentistry – Pre-capsulated dental amalgam (ISO 20749:2017)
- HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1**
- EN 1459-2:2015/prA1 en  
Rough-terrain trucks – Safety requirements and verification – Part 2: Slewing variable-reach trucks  
Vozila za teške terene – Sigurnosni zahtjevi i potvrđivanje – 2. dio: Okretni kamioni promjenjivog dometa
- FprEN 2566 en  
Aerospace series – Fluorocarbon rubber (FKM) – Hardness 70 IRHD
- FprEN 2567 en  
Aerospace series – Fluorocarbon rubber (FKM) – Hardness 80 IRHD
- FprEN 2568 en  
Aerospace series – Fluorocarbon rubber (FKM) – Hardness 90 IRHD
- FprEN 2795 en  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 50 IRHD
- FprEN 2796 en  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 60 IRHD



FprEN 2797 en  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 70 IRHD

FprEN 2798 en  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 80 IRHD

FprEN 2799 en  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 90 IRHD

FprEN 3475-411 en  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 411: Resistance to fluids  
Zrakoplovstvo – Električni kabeli za upotrebu u zrakoplovstvu – Metode ispitivanja – 411. dio: Otpornost na fluide

FprEN 3745-505 en  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 505: Cable tensile strength  
Zrakoplovstvo – Vlakna i kabeli, optički, za zrakoplove – Metode ispitivanja – 505. dio: Zatezna čvrstoća kabela

FprEN 4731 en  
Aerospace series – Spectral quality of LED luminaires used with photoluminescent marking systems

FprEN 4832 en  
Aerospace series – Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting and Ring-locked fitting-reducer – Inch Series – Technical specification

FprEN 4833 en  
Aerospace series – Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting – Flareless End – Inch Series – Extra Fine Thread Pitch

FprEN 4834 en  
Aerospace series – Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Port for Ring locked fitting – Inch Series – Geometric configuration

FprEN 4835 en  
Aerospace series – Installation and removal requirements for Ring locked fitting and reducer, 24° Cone up to 35 000 kPa (5 080 psi) – Inch Series

FprEN 4836 en  
Aerospace series – Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting – Reducer – Flareless End – Inch Series – Extra Fine Thread Pitch

FprEN 4838-001 en  
Aerospace series – Arc Fault Circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A – 115 V a.c. 400 Hz Constant Frequency – Part 001: Technical specification

FprEN 9136 en  
Aerospace series – Root cause analysis and problem solving (9S Methodology)

prEN 16842-9 en  
Powered industrial trucks – Visibility – Test method for verification – Part 9: Order-picking, lateral-and front-stacking trucks with elevating operator position

## **HZN/TU U1, Opća elektrotehnika 1**

EN 60068-2-10:2005/prA1 en  
Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth (IEC 60068-2-10:2005/am1:201X)  
Ispitivanje utjecaja okoliša – Dio 2-10: Ispitivanja – J ispitivanje i upute: Rast plijesni (IEC 60068-2-10:2005/am1:201X)

prEN 60068-2-5:2017 en  
Environmental testing – Part 2-5: Tests – Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering (IEC 60068-2-5:201X)  
Ispitivanje utjecaja okoliša – Dio 2-5: Ispitivanja – Ispitivanje Sa: Simulirano solarno zračenje na razini tla i uputa za ispitivanje solarnog zračenja (IEC 60068-2-5:201X)

EN 60068-2-74:1999/prA1 en  
Environmental testing – Part 2: Tests – Test Xc: Fluid contamination (IEC 60068-2-74:1999/am1:201X)  
Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Xc ispitivanje: Onečišćenje fluida (IEC 60068-2-74:1999/am1:201X)

prEN 60721-2-7:2017 en  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature, Fauna and flora (IEC 60721-2-7:201X)

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

prEN 50491-12-1 en  
General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Smart grid – Application specification – Interface and framework for customer – Part 12-1: Interface between the CEM and Home/Building Resource manager – General Requirements and Architecture

prEN 60793-1-49:2017 en  
Optical fibres – Part 1-49: Measurement methods and test procedures – Differential mode delay (IEC 60793-1-49:201X)

prEN 60794-4-20:2017 en  
Optical fibre cables – Part 4-20: Aerial optical cables along electrical power lines – Family specification for ADSS (All Dielectric Self Supported) Optical cables (IEC 60794-4-20:201X)

prEN 61076-3-123:2017 en  
Connectors for electronic equipment – Product requirements – Part 3-123: Rectangular connectors – Detail specification for hybrid connectors for industrial environments, for power supply and fibre optic data transmission, with push-pull locking (IEC 61076-3-123:201X)

prEN 61754-7-3:2017 en  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 7-3: Type MPO connector family – Two fibre rows 16 fibre wide (IEC 61754-7-3:201X)

EN 62446-1:2016/prA1:2017 en  
Photovoltaic (PV) systems – Requirements for testing, documentation and maintenance – Part 1: Grid connected systems – Documentation, commissioning tests and inspection (IEC 62446-1:2016/am1:201X)

prEN 63011-3:2017 en  
Integrated circuits – Three dimensional integrated circuits – Part 3: A model and measurement conditions of through silicon via (IEC 63011-3:201X)

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

prEN 60193:2017 en  
Hydraulic turbines, storage pumps and pump-turbines – Model acceptance tests (IEC 60193:201X)  
Hidraulične turbine, pumpe za spremnike i turbinske pumpe – Modelska prijamna ispitivanja (IEC 60193:201X)

prEN 61810-10:2017 en  
Electromechanical elementary relays – Part 10: High capacity relays – Additional functional aspects and safety requirements (IEC 61810-10:201X)  
Elektromehanički osnovni releji – 10. dio: Releji visokog kapaciteta – Dodatni funkcionalni aspekti i sigurnosni zahtjevi (IEC 61810-10:201X)

FprEN 62841-3-12:2017/FprAA:2017 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-12: Particular requirements for transportable threading machines  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-12: Posebni zahtjevi za prijenosne strojeve za rezanje navoja

FprEN 62841-3-14:2017/FprAA:2017 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-14: Particular requirements for transportable drain cleaners  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-14: Posebni zahtjevi za prijenosne čistače odvoda

prEN 62862-3-2:2017 en  
Solar thermal electric plants – Part 3-2: Systems and components – General requirements and test methods for large-size parabolic-trough collectors (IEC 62862-3-2:201X)  
Solarne termoelektreane – Dio 3-2: Sustavi i komponente – Opći zahtjevi i metode ispitivanja za velike parabolične kolektore (IEC 62862-3-2:201X)



prEN 63132-1:2017 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 1: Common (IEC 63132-1:201X)  
Vodič za postupke instalacije i tolerancije strojeva za hidroelektrane – 1. dio: Općenito (IEC 63132-1:201X)

prEN 63132-2:2017 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 2: Vertical generator (IEC 63132-2:201X)  
Vodič za postupke instalacije i tolerancije strojeva za hidroelektrane – 2. dio: Uspravni generator (IEC 63132-2:201X)

prEN 63132-3:2017 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 3: Vertical Francis turbine or pump-turbine (IEC 63132-3:201X)  
Vodič za postupke instalacije i tolerancije strojeva za hidroelektrane – 3. dio: Uspravna Francisova turbina ili turbina-pumpa (IEC 63132-3:201X)

prEN 63132-4:2017 en  
Guide for installation procedures and tolerances of hydroelectric machines – Part 4: Vertical Kaplan or propeller turbine (IEC 63132-4:201X)  
Vodič za postupke instalacije i tolerancije strojeva za hidroelektrane – 4. dio: Uspravna Kaplanova ili propelerska turbina (IEC 63132-4:201X)

## 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, napatok) 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 8, Brodogradnja

HRN EN ISO 9094:2016 en  
Mala plovila – Protupožarna zaštita (ISO 9094:2015; EN ISO 9094:2015)  
Small craft – Fire protection (ISO 9094:2015; EN ISO 9094:2015)  
- zamijenjena s: HRN EN ISO 9094:2017

HRN EN ISO 10239:2015 en  
Mala plovila – Sustavi ukapljenih naftnih plinova (LPG) (ISO 10239:2014; EN ISO 10239:2014)  
Small craft – Liquefied petroleum gas (LPG) systems (ISO 10239:2014; EN ISO 10239:2014)  
- zamijenjena s: HRN EN ISO 10239:2017

HRN EN ISO 10592:2001 en  
Mala plovila – Hidraulički kormilarski sustav (ISO 10592:1994; EN ISO 10592:1995)  
Small craft – Hydraulic steering systems (ISO 10592:1994; EN ISO 10592:1995)  
- zamijenjena s: HRN EN ISO 10592:2017

HRN EN ISO 10592:2001/A1:2008 en  
Mala plovila – Hidraulički kormilarski sustav (EN ISO 10592:1995/A1:2000)  
Small craft – Hydraulic steering systems (EN ISO 10592:1995/A1:2000)  
- zamijenjena s: HRN EN ISO 10592:2017

HRN EN ISO 12217-3:2015 en  
Mala plovila – Ocjenjivanje i razredba stabiliteta i plovnosti – 3. dio: Plovila duljine trupa manje od 6 m (ISO 12217-3:2015; EN ISO 12217-3:2015)  
Small craft – Stability and buoyancy assessment and categorization – Part 3: Boats of hull length less than 6 m (ISO 12217-3:2015; EN ISO 12217-3:2015)  
- zamijenjena s: HRN EN ISO 12217-3:2017

HRN EN ISO 13929:2004 en  
Mala plovila – Kormilarski uređaj – Sustavi sa zupčano-polužnim prijenosom (ISO 13929:2001; EN ISO 13929:2001)  
Small craft – Steering gear – Geared link systems (ISO 13929:2001; EN ISO 13929:2001)  
- zamijenjena s: HRN EN ISO 13929:2017

HRN EN ISO 15584:2004 en  
Mala plovila – Ugrađeni benzinski motori – Komponente sustava goriva i elektrouređaja (ISO 15584:2001; EN ISO 15584:2001)  
Small craft – Inboard petrol engines – Engine-mounted fuel and electrical components (ISO 15584:2001; EN ISO 15584:2001)  
- zamijenjena s: HRN EN ISO 15584:2017

HRN EN ISO 15652:2008 en  
Mala plovila – Sustav daljinskog kormilarenja za brodice s ugrađenim motorom koji pogoni mali vodomlazni propulzor (ISO 15652:2003; EN ISO 15652:2005)  
Small craft – Remote steering systems for inboard mini jet boats (ISO 15652:2003; EN ISO 15652:2005)  
- zamijenjena s: HRN EN ISO 15652:2017

HRN EN ISO 16147:2004 en  
Mala plovila – Ugrađeni dizelski motori – Komponente sustava goriva i elektrouređaja ovještene na motor (ISO 16147:2002; EN ISO 16147:2002)  
Small craft – Inboard diesel engines – Engine-mounted fuel and electrical components (ISO 16147:2002; EN ISO 16147:2002)  
- zamijenjena s: HRN EN ISO 16147:2017

HRN EN ISO 16147:2004/A1:2013 en  
Mala plovila – Ugrađeni dizelski motori – Komponente sustava goriva i elektrouređaja ovještene na motor – Amandman 1 (ISO 16147:2002/Amd 1:2013; EN ISO 16147:2002/A1:2013)  
Small craft – Inboard diesel engines – Engine-mounted fuel and electrical components – Amendment 1 (ISO 16147:2002/Amd 1:2013; EN ISO 16147:2002/A1:2013)  
- zamijenjena s: HRN EN ISO 16147:2017

HRN EN 28846:2001 en  
Mala plovila – Električni uređaji – Zaštita od zapaljenja okolnih zapaljivih plinova (ISO 8846:1990; EN 28846:1993)  
Small craft – Electrical devices – Protection against ignition of surrounding flammable gases (ISO 8846:1990; EN 28846:1993)  
- zamijenjena s: HRN EN ISO 8846:2017

HRN EN 28846:2001/A1:2008 en  
Mala plovila – Električni uređaji – Zaštita od zapaljenja okolnih zapaljivih plinova (EN 28846:1993/A1:2000)  
Small craft – Electrical devices – Protection against ignition of surrounding flammable gases (EN 28846:1993/A1:2000)  
- zamijenjena s: HRN EN ISO 8846:2017

HRN EN 28848:2001 en  
Mala plovila – Sustav daljinskoga kormilarenja (ISO 8848:1990; EN 28848:1993)  
Small craft – Remote steering systems (ISO 8848:1990; EN 28848:1993)  
- zamijenjena s: HRN EN ISO 8848:2017

HRN EN 28848:2001/A1:2008 en  
Mala plovila – Sustav daljinskoga kormilarenja (EN 28848:1993/A1:2000)  
Small craft – Remote steering systems (EN 28848:1993/A1:2000)  
- zamijenjena s: HRN EN ISO 8848:2017

HRN EN 29775:2001 en  
Mala plovila – Daljinsko kormilarenje za izvanbrodske motore snage od 15 kW do 40 kW (ISO 9775:1990; EN 29775:1993)  
Small craft – Remote steering systems for single outboard motors of 15 kW to 40 kW power (ISO 9775:1990; EN 29775:1993)  
- zamijenjena s: HRN EN ISO 9775:2017

HRN EN 29775:2001/A1:2008 en  
Mala plovila – Daljinsko kormilarenje za izvanbrodske motore snage od 15 kW do 40 kW (ISO 9775:1990; EN 29775:1993/A1:2000)  
Small craft – Remote steering systems for single outboard motors of 15 kW to 40 kW power (ISO 9775:1990; EN 29775:1993/A1:2000)  
- zamijenjena s: HRN EN ISO 9775:2017

## HZN/TO 28, Naftni proizvodi i maziva

HRN EN 1601:2014 en

Tekućni naftni proizvodi – Bezolovni motorni benzin – Određivanje količine organskih spojeva kisika i ukupnoga organski vezanoga kisika plinskom kromatografijom (O-FID) (EN 1601:2014)  
Liquid petroleum products – Unleaded petrol – Determination of organic oxygenate compounds and total organically bound oxygen content by gas chromatography (O-FID) (EN 1601:2014)  
- zamijenjena s: HRN EN 1601:2017

HRN EN 1601:2014/Ispr.1:2014 en

Tekućni naftni proizvodi – Bezolovni motorni benzin – Određivanje količine organskih spojeva kisika i ukupnoga organski vezanoga kisika plinskom kromatografijom (O-FID) (EN 1601:2014/AC:2014)  
Liquid petroleum products – Unleaded petrol – Determination of organic oxygenate compounds and total organically bound oxygen content by gas chromatography (O-FID) (EN 1601:2014/AC:2014)  
- zamijenjena s: HRN EN 1601:2017

HRN EN 15984:2011 en

Naftna industrija i proizvodi – Određivanje sastava rafinerijskih plinova za loženje i izračunavanje udjela ugljika i toplinske vrijednosti – Metoda plinske kromatografije (EN 15984:2011)  
Petroleum industry and products – Determination of composition of refinery heating gas and calculation of carbon content and calorific value – Gas chromatography method (EN 15984:2011)  
- zamijenjena s: HRN EN 15984:2017

## HZN/TO 43, Akustika

HRN EN 12354-1:2001 en

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 1. dio: Zračna zvučna izolacija između prostorija (EN 12354-1:2000)  
Building Acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 1: Airborne sound insulation between rooms (EN 12354-1:2000)  
- zamijenjena s: HRN EN ISO 12354-1:2017

HRN EN 12354-2:2001 en

Građevna akustika – Procjena akustičkih svojstava građevina iz akustičkih svojstava elemenata – 2. dio: Udarne zvučne izolacije između prostorija (EN 12354-2:2000)  
Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 2: Impact sound insulation between rooms (EN 12354-2:2000)  
- zamijenjena s: HRN EN ISO 12354-2:2017

HRN EN 12354-3:2001 en

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 3. dio: Zračna zvučna izolacija od vanjskog zvuka (EN 12354-3:2000)  
Building Acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 1: Airborne sound insulation against outdoor sound (EN 12354-3:2000)  
- zamijenjena s: HRN EN ISO 12354-3:2017

HRN EN 12354-4:2001 en

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 4. dio: Prijenos zvuka iznutra prema van (EN 12354-4:2000)  
Building acoustics – Estimation of acoustics performance of buildings from the performance of elements – Part 4: Transmission of indoor sound to the outside (EN 12354-4:2000)  
- bez zamjene

## HZN/TO 44, Zavarivanje i srodni postupci

HRN EN ISO 9606-1:2014 en

Provjera osposobljenosti zavarivača – Zavarivanje taljenjem – 1. dio: Čelici (ISO 9606-1:2012, uključujući Cor 1:2012; EN ISO 9606-1:2013)  
Qualification testing of welders – Fusion welding – Part 1: Steels (ISO 9606-1:2012, including Cor 1:2012; EN ISO 9606-1:2013)  
- zamijenjena s: HRN EN ISO 9606-1:2017

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

HRN EN 16084:2012 en

Rashladni sustavi i dizalice topline – Kvalifikacija nepropusnosti dijelova i spojeva (EN 16084:2011)  
Refrigerating systems and heat pumps – Qualification of tightness of components and joints (EN 16084:2011)  
- zamijenjena s: HRN EN ISO 14903:2017

## HZN/TO 92, Zaštita od požara

HRN EN ISO 13943:2010 en

Zaštita od požara – Terminološki rječnik (ISO 13943:2008; EN ISO 13943:2010)  
Fire safety – Vocabulary (ISO 13943:2008; EN ISO 13943:2010)  
- zamijenjena s: HRN EN ISO 13943:2017

## HZN/TO 130, Grafička tehnologija

HRN ISO 13655:2014 en

Grafička tehnologija – Spektralna mjerenja i kolorimetrijsko određivanje za grafičke reprodukcije (ISO 13655:2009)  
Graphic technology – Spectral measurement and colorimetric computation for graphic arts images (ISO 13655:2009)  
- zamijenjena s: HRN ISO 13655:2017

## HZN/TO 135, Nerazorna ispitivanja

HRN EN 16392-2:2014 en

Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 2. dio: Sonde (EN 16392-2:2014)  
Non-destructive testing – Characterisation and verification of ultrasonic phased array equipment – Part 2: Probes (EN 16392-2:2014)  
- zamijenjena s: HRN EN ISO 18563-2:2017

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

HRN ISO 5667-12:2001 hr

Kakvoća vode – Uzorkovanje – 12. dio: Smjernice za uzorkovanje pridonosnih taloga (ISO 5667-12:1995)  
Water quality – Sampling – Part 12: Guidance on sampling of bottom sediments (ISO 5667-12:1995)  
- zamijenjena s: HRN ISO 5667-12:2017

## HZN/TO 172, Optika i optički instrumenti

HRN EN ISO 8980-1:2005 en

Oftalmološka optika – Neoblikovane gotove naočalne leće – 1. dio: Specifikacije za jednožarišne i višežarišne leće (ISO 8980-1:2004; EN ISO 8980-1:2004)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2004; EN ISO 8980-1:2004)  
- zamijenjena s: HRN EN ISO 8980-1:2017

HRN EN ISO 8980-1:2005/Ispr.1:2008 en

Oftalmološka optika – Neoblikovane gotove naočalne leće – 1. dio: Specifikacije za jednožarišne i višežarišne leće (ISO 8980-1:2004/Cor 1:2006; EN ISO 8980-1:2004/AC:2006)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2004/Cor 1:2006; EN ISO 8980-1:2004/AC:2006)  
- zamijenjena s: HRN EN ISO 8980-1:2017

HRN EN ISO 8980-2:2005 en

Oftalmološka optika – Neoblikovane gotove naočalne leće – 2. dio: Specifikacije za leće s progresivnom jakosti (ISO 8980-2:2004; EN ISO 8980-2:2004)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 2: Specifications for progressive power lenses (ISO 8980-2:2004; EN ISO 8980-2:2004)  
- zamijenjena s: HRN EN ISO 8980-2:2017

HRN EN ISO 8980-2:2005/Ispr.1:2008 en

Oftalmološka optika – Neoblikovane gotove naočalne leće – 2. dio: Specifikacije za leće s progresivnom jakosti (ISO 8980-2:2004/Cor 1:2006; EN ISO 8980-2:2004/AC:2006)  
Ophthalmic optics – Uncut finished spectacle lenses – Part 2: Specifications for progressive power lenses (ISO 8980-2:2004/Cor 1:2006; EN ISO 8980-2:2004/AC:2006)  
- zamijenjena s: HRN EN ISO 8980-2:2017

HRN ISO 9849:2004 en,fr

Optika i optički instrumenti – Geodetski instrumenti i instrumenti izmjere – Rječnik (ISO 9849:2000)  
Optics and optical instruments – Geodetic and survey instruments – Vocabulary (ISO 9849:2000)  
- zamijenjena s: HRN ISO 9849:2017

HRN EN ISO 11554:2008 en

Optika i fotonika – Laseri i pridružena oprema – Ispitne metode za snagu, energiju i vremenske značajke laserskog snopa (ISO 11554:2006; EN ISO 11554:2008)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power, energy and temporal characteristics (ISO 11554:2006; EN ISO 11554:2008)  
- zamijenjena s: HRN EN ISO 11554:2017

HRN EN ISO 11978:2014 en

Oftalmološka optika – Kontaktne leće i proizvodi za održavanje kontaktnih leća – Označavanje (ISO 11978:2014; EN ISO 11978:2014)  
Ophthalmic optics – Contact lenses and contact lens care products – Labelling (ISO 11978:2014; EN ISO 11978:2014)  
- zamijenjena s: HRN EN ISO 11978:2017

HRN EN ISO 21987:2010 en

Oftalmološka optika – Ugrađene naočalne leće (ISO 21987:2009; EN ISO 21987:2009)  
Ophthalmic optics – Mounted spectacle lenses (ISO 21987:2009; EN ISO 21987:2009)  
- zamijenjena s: HRN EN ISO 21987:2017

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

HRN EN 71-3:2014 en

Sigurnost igračaka – 3. dio: Opuštanje određenih elemenata (EN 71-3:2013+A1:2014)  
Safety of toys – Part 3: Migration of certain elements (EN 71-3:2013+A1:2014)  
- zamijenjena s: HRN EN 71-3:2017

HRN EN 71-14:2015 en

Sigurnost igračaka – 14. dio: Trampolini za kućnu uporabu (EN 71-14:2014)  
Safety of toys – Part 14: Trampolines for domestic use (EN 71-14:2014)  
- zamijenjena s: HRN EN 71-14:2017

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

HRN EN ISO 2082:2009 en

Metalne i ostale anorganske prevlake – Elektroplahirane kadmijske prevlake na željezu ili čeliku naknadnom obradom (ISO 2082:2008; EN ISO 2082:2008)  
Metallic and other inorganic coatings – Electroplated coatings of cadmium with supplementary treatments on iron or steel (ISO 2082:2008; EN ISO 2082:2008)  
- zamijenjena s: HRN EN ISO 2082:2017

HRN EN ISO 2360:2004 en

Nevodljive prevlake na nemagnetskim električki vodljivim metalnim podlogama – Mjerenje debljine prevlake – Metoda vrtložnih struja (ISO 2360:2003; EN ISO 2360:2003)  
Non-conductive coatings on non-magnetic electrically conductive basis materials – Measurement of coating thickness – Amplitude-sensitive eddy current method (ISO 2360:2003; EN ISO 2360:2003)  
- zamijenjena s: HRN EN ISO 2360:2017

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

HRN EN ISO 6145-6:2010 en

Analiza plina – Priprema umjeranih plinskih smjesa pomoću dinamičkih volumetrijskih metoda – 6. dio: Kritične prigušnice (ISO 6145-6:2003; EN ISO 6145-6:2008)  
Gas analysis – Preparation of calibration gas mixtures using dynamic volumetric methods – Part 6: Critical orifices (ISO 6145-6:2003; EN ISO 6145-6:2008)  
- zamijenjena s: HRN EN ISO 6145-6:2017

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

HRN EN 12675:2001 en

Signalni uređaj prometnih signala – Uvjeti funkcionalne sigurnosti (EN 12675:2000)  
Traffic signal controllers – Functional safety requirements (EN 12675:2000)  
- zamijenjena s: HRN EN 12675:2017

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

HRN EN 13848-5:2011 en

Željeznički sustav – Željeznički gornji ustroj – Kvaliteta kolosiječne geometrije – 5. dio: Razine kvalitete kolosiječne geometrije (EN 13848-5:2008+A1:2010)  
Railway applications – Track – Track geometry quality – Part 5: Geometric quality levels – Plain line (EN 13848-5:2008+A1:2010)  
- zamijenjena s: HRN EN 13848-5:2017

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

HRN EN 12697-27:2003 en

Bitumsne mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 27. dio: Uzorkovanje (EN 12697-27:2000)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 27: Sampling (EN 12697-27:2000)  
- zamijenjena s: HRN EN 12697-27:2017

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

HRN EN 12445:2008 en

Industrijska, komercijalna, garažna i ostala ulazna vrata – Sigurnost pri upotrebi strojno pogonjenih vrata – Ispitne metode (EN 12445:2000)  
Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Test methods (EN 12445:2000)  
- zamijenjena s: HRN EN 12453:2017

HRN EN 12453:2008 en

Industrijska, komercijalna, garažna i ostala ulazna vrata – Sigurnost pri upotrebi strojno pogonjenih vrata – Zahtjevi (EN 12453:2000)  
Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Requirements (EN 12453:2000)  
- zamijenjena s: HRN EN 12453:2017

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

HRN EN 13779:2008 en

Ventilacija u nestambenim zgradama – Zahtjevi za sustave ventilacije i klimatizacije (EN 13779:2007)  
Ventilation for non-residential buildings – Performance requirements for ventilation and room-conditioning systems (EN 13779:2007)  
- zamijenjena s: HRN EN 16798-3:2017

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

HRN EN ISO 11607-1:2010 en

Ambalaža za završno sterilizirane medicinske proizvode – 1. dio: Zahtjevi za materijale, sustave sterilne obloge i sustave ambalaže (ISO 11607-1:2006; EN ISO 11607-1:2009)  
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006; EN ISO 11607-1:2009)  
- zamijenjena s: HRN EN ISO 11607-1:2017

HRN EN ISO 11607-1:2010/A1:2015 en

Ambalaža za završno sterilizirane medicinske proizvode – 1. dio: Zahtjevi za materijale, sustave sterilne obloge i sustave ambalaže (ISO 11607-1:2006/Amd 1:2014; EN ISO 11607-1:2009/A1:2014)  
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006/Amd 1:2014; EN ISO 11607-1:2009/A1:2014)  
- zamijenjena s: HRN EN ISO 11607-1:2017

HRN EN ISO 11607-2:2008 en

Ambalaža za završno sterilizirane medicinske proizvode – 2. dio: Zahtjevi za oblikovanje, lijepljenje i postupke sastavljanja (ISO 11607-2:2006; EN ISO 11607-2:2006)  
Packaging for terminally sterilized medical devices – Part 2: Requirements for forming, sealing and assembly processes (ISO 11607-2:2006; EN ISO 11607-2:2006)  
- zamijenjena s: HRN EN ISO 11607-2:2017



HRN EN ISO 11607-2:2008/A1:2015 en  
Ambalaža za završno sterilizirane medicinske proizvode – 2. dio: Vrednovanje zahtjeva za oblikovanje, lijepljenje i postupke sastavljanja (ISO 11607-2:2006/Amd 1:2014; EN ISO 11607-2:2006/A1:2014)  
Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2006/Amd 1:2014; EN ISO 11607-2:2006/A1:2014)  
- zamijenjena s: HRN EN ISO 11607-2:2017

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

HRN EN ISO 20349:2011 en  
Osobna zaštitna oprema – Obuća za zaštitu od prskotina rastaljenog metala – Zahtjevi i metode ispitivanja (ISO 20349:2010; EN ISO 20349:2010)  
Personal protective equipment – Footwear protecting against thermal risks and molten metal splashes as found in foundries and welding – Requirements and test method (ISO 20349:2010; EN ISO 20349:2010)  
- zamijenjena s: HRN EN ISO 20349-1:2017,  
HRN EN ISO 20349-2:2017

### **HZN/TO 557, Zaštitna odjeća**

HRN EN 13911:2005 en  
Zaštitna odjeća za vatrogasce – Zahtjevi i ispitne metode za vatrogasne potkape za vatrogasce (EN 13911:2004)  
Protective clothing for firefighters – Requirements and test methods for fire hoods for firefighters (EN 13911:2004)  
- zamijenjena s: HRN EN 13911:2017

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

HRN EN ISO 1107:2008 en  
Ribarske mreže – Mrežaste tvorevine – Osnovni nazivi i definicije (ISO 1107:2003; EN ISO 1107:2003)  
Fishing nets – Netting – Basic terms and definitions (ISO 1107:2003; EN ISO 1107:2003)  
- bez zamjene

HRN EN ISO 6179:2010 en  
Vulkanizirana ili termoplastična guma – Gumene plahte i tkanine presvučene gumom – Određivanje stupnja prolaza isparivih tekućina (gravimetrijska metoda) (ISO 6179:2010; EN ISO 6179:2010)  
Rubber, vulcanized or thermoplastic – Rubber sheets and rubber-coated fabrics – Determination of transmission rate of volatile liquids (gravimetric technique) (ISO 6179:2010; EN ISO 6179:2010)  
- zamijenjena s: HRN EN ISO 6179:2017

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

HRN EN 303-2:2004 en  
Toplovodni kotlovi – 2. dio: Toplovodni kotlovi s predtlačnim plamenikom – Posebni zahtjevi za kotlove s predtlačnim plamenicima na raspršeno ulje (EN 303-2:1998)  
Heating boilers – Part 2: Heating boilers with forced draught burners – Special requirements for boilers with atomizing oil burners (EN 303-2:1998)  
- zamijenjena s: HRN EN 303-2:2017

HRN EN 303-2:2004/A1:2008 en  
Toplovodni kotlovi – 2. dio: Toplovodni kotlovi s predtlačnim plamenicima – Posebni zahtjevi za kotlove s predtlačnim plamenicima na raspršeno ulje (EN 303-2:1998/A1:2003)  
Heating boilers – Part 2: Heating boilers with forced draught burners – Special requirements for boilers with atomizing oil burners (EN 303-2:1998/A1:2003)  
- zamijenjena s: HRN EN 303-2:2017

HRN EN ISO 10156:2010 en  
Plinovi i plinske smjese – Određivanje zapaljivosti i oksidacijskih svojstava za odabir priključaka za ventile na bocama (ISO 10156:2010; EN ISO 10156:2010)  
Gases and gas mixtures – Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets (ISO 10156:2010; EN ISO 10156:2010)  
- zamijenjena s: HRN EN ISO 10156:2017

HRN EN 13480-1:2012 en  
Metalni industrijski cjevovodi – 1. dio: Općenito (EN 13480-1:2012)  
Metallic industrial piping – Part 1: General (EN 13480-1:2012)  
- zamijenjena s: HRN EN 13480-1:2017

HRN EN 13480-2:2012 en  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2012)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2012)  
- zamijenjena s: HRN EN 13480-2:2017

HRN EN 13480-2:2012/A1:2013 en  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2012/A1:2013)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2012/A1:2013)  
- zamijenjena s: HRN EN 13480-2:2017

HRN EN 13480-2:2012/A2:2016 en  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2012/A2:2016)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2012/A2:2016)  
- zamijenjena s: HRN EN 13480-2:2017

HRN EN 13480-3:2012 en  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2012)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2012)  
- zamijenjena s: HRN EN 13480-3:2017

HRN EN 13480-3:2012/A1:2017 en  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2012/A1:2017)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2012/A1:2017)  
- zamijenjena s: HRN EN 13480-3:2017

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

HRN EN 13480-4:2012/A1:2013 en  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A1:2013)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A1:2013)  
- zamijenjena s: HRN EN 13480-4:2017

HRN EN 13480-4:2012/A2:2016 en  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A2:2016)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A2:2016)  
- zamijenjena s: HRN EN 13480-4:2017

HRN EN 13480-4:2012/A3:2016 en  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A3:2016)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A3:2016)  
- zamijenjena s: HRN EN 13480-4:2017

HRN EN 13480-4:2012/A4:2017 en  
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)  
- zamijenjena s: HRN EN 13480-4:2017

HRN EN 13480-4:2012/A5:2017 en  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A5:2017)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A5:2017)  
- zamijenjena s: HRN EN 13480-4:2017

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

HRN EN 13480-5:2012/A1:2013 en  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2012/A1:2013)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2012/A1:2013)  
- zamijenjena s: HRN EN 13480-5:2017



HRN EN 13480-5:2012/A2:2017 en  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje  
(EN 13480-5:2012/A2:2017)  
Metallic industrial piping – Part 5: Inspection and testing  
(EN 13480-5:2012/A2:2017)  
- zamijenjena s: HRN EN 13480-5:2017

HRN EN 13480-5:2012/A3:2017 en  
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)  
- zamijenjena s: HRN EN 13480-5:2017

HRN EN 13480-6:2012 en  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode (EN 13480-6:2012)  
Metallic industrial piping – Part 6: Additional requirements for buried piping (EN 13480-6:2012)  
- zamijenjena s: HRN EN 13480-6:2017

HRN EN 13480-6:2012/A1:2016 en  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode (EN 13480-6:2012/A1:2016)  
Metallic industrial piping – Part 6: Additional requirements for buried piping (EN 13480-6:2012/A1:2016)  
- zamijenjena s: HRN EN 13480-6:2017

HRI CEN/TR 13480-7:2008 en  
Metalni industrijski cjevovodi – 7. dio: Smjernice za primjenu postupaka za ocjenu sukladnosti (CEN/TR 13480-7:2002)  
Metallic industrial piping – Part 7: Guidance on the use of conformity assessment procedures (CEN/TR 13480-7:2002)  
- zamijenjena s: HRI CEN/TR 13480-7:2017

HRN EN 13480-8:2012 en  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminijske i aluminijevih legura (EN 13480-8:2012)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2012)  
- zamijenjena s: HRN EN 13480-8:2017

HRN EN 13480-8:2012/A1:2014 en  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminijske i aluminijevih legura (EN 13480-8:2012/A1:2014)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2012/A1:2014)  
- zamijenjena s: HRN EN 13480-8:2017

HRN EN 13480-8:2012/A2:2015 en  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminijske i aluminijevih legura (EN 13480-8:2012/A2:2015)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2012/A2:2015)  
- zamijenjena s: HRN EN 13480-8:2017

HRN EN 15034:2008 en  
Toplovodni kotlovi – Uljni kondenzacijski kotlovi (EN 15034:2006+AC:2008)  
Heating boilers – Condensing heating boilers for fuel oil (EN 15034:2006+AC:2008)  
- zamijenjena s: HRN EN 303-2:2017

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

HRN EN 1870-18:2013 en  
Sigurnost strojeva za obradu drva – Kružne pile – 18. dio: Dimenzije pile (EN 1870-18:2013)  
Safety of woodworking machines – Circular sawing machines – Part 18: Dimension saws (EN 1870-18:2013)  
- zamijenjena s: HRN EN ISO 19085-5:2017

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

HRN EN 565:2008 en  
Planinarska oprema – Trake – Sigurnosni zahtjevi i metode ispitivanja (EN 565:2006)  
Mountaineering equipment – Tape – Safety requirements and test methods (EN 565:2006)  
- zamijenjena s: HRN EN 565:2017

HRN EN 1069-1:2011 en  
Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1069-1:2010)  
Water slides – Part 1: Safety requirements and test methods (EN 1069-1:2010)  
- zamijenjena s: HRN EN 1069-1:2017

HRN EN 1069-1:2011/lsp.1:2013 en  
Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1069-1:2010/AC:2012)  
Water slides – Part 1: Safety requirements and test methods (EN 1069-1:2010/AC:2012)  
- zamijenjena s: HRN EN 1069-1:2017

HRN EN 1069-2:2011 en  
Vodeni tobogani – 2. dio: Upute (EN 1069-2:2010)  
Water slides – Part 2: Instructions (EN 1069-2:2010)  
- zamijenjena s: HRN EN 1069-2:2017

## **HZN/TU M1, *Metalni materijali 1***

HRN EN 24496:2008 en  
Metalni prah – Određivanje netopljivoga udjela kiseline u prahu željeza, bakra, kositra i bronce (ISO 4496:1978; EN 24496:1993)  
Metallic powders – Determination of acid insoluble content in iron, copper, tin and bronze powders (ISO 4496:1978; EN 24496:1993)  
- zamijenjena s: HRN EN ISO 4496:2017

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

HRN EN ISO 22112:2008 en  
Stomatologija – Umjetni zubi za zubne proteze (ISO 22112:2005; EN ISO 22112:2006)  
Dentistry – Artificial teeth for dental prostheses (ISO 22112:2005; EN ISO 22112:2006)  
- zamijenjena s: HRN EN ISO 22112:2017

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

HRN EN 2267-009:2013 en  
Zrakoplovni niz – Kabeli, električni, opće namjene – Radne temperature između – 55 °C i 260 °C – 009. dio: porodica DR, jednojezgreto i višezjgreto sastavljeni – Norma za proizvod (EN 2267-009:2013)  
Aerospace series – Cables, electrical, for general purpose – Operating temperatures between – 55 °C and 260 °C – Part 009: DR family, single and multicore assembly – Product standard (EN 2267-009:2013)  
- zamijenjena s: HRN EN 2267-009:2017

HRN EN 2267-010:2014 en  
Nizovi o zrakoplovstvu – Kabeli, električni, opće namjene – Radna temperatura između – 55 °C i 260 °C – 010. dio: DR porodica, samostalno ispisivanje UV laserom – Norma za proizvod (EN 2267-010:2013)  
Aerospace series – Cables, electrical, for general purpose – Operating temperatures between – 55 °C and 260 °C – Part 010: DR family, single UV laser printable – Product standard (EN 2267-010:2013)  
- zamijenjena s: HRN EN 2267-010:2017

HRN EN 2287:2008 en  
Nizovi o zrakoplovstvu – Čahure izrađene od običnog čelika otpornog na koroziju sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2287:1989)  
Aerospace series – Bushes, plain corrosion resisting steel with self-lubricating liner – Dimensions and loads (EN 2287:1989)  
- zamijenjena s: HRN EN 2287:2017

HRN EN 6059-503:2012 en  
Nizovi o zrakoplovstvu – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 503. dio: Porast temperature zbog nazivne struje unesene u navlaku (EN 6059-503:2012)  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 503: Temperature rise due to rated current injected on the sleeve (EN 6059-503:2012)  
- zamijenjena s: HRN EN 6059-503:2017

## 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 172, Optika i optički instrumenti

- **umjesto**

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

- **treba biti**

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

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

- **umjesto**

HRN EN 12277:2015  
Planinarska oprema – **Pojasovi** – Sigurnosni zahtjevi i metode ispitivanja (EN 12277:2015)  
Mountaineering equipment – Harnesses – Safety requirements and test methods (EN 12277:2015)

- **treba biti**

HRN EN 12277:2015  
Planinarska oprema – **Penjački pojasi** – Sigurnosni zahtjevi i metode ispitivanja (EN 12277:2015)  
Mountaineering equipment – Harnesses – Safety requirements and test methods (EN 12277:2015)

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

- **umjesto**

HRN HD 60364-7-708:2010  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za **stambene autoprikolice, šatore i slične prostore** (IEC 60364-7-708:2007, MOD; HD 60364-7-708:2009)  
Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations (IEC 60364-7-708:2007, MOD; HD 60364-7-708:2009)

- **treba biti**

HRN HD 60364-7-708:2010  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za **kamp prikolice i šatore te slični prostori** (IEC 60364-7-708:2007, MOD; HD 60364-7-708:2009)  
Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations (IEC 60364-7-708:2007, MOD; HD 60364-7-708:2009)

- **umjesto**

HRN HD 60364-7-708:2017  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za **kamp prikolice, šatore i slični prostori** (IEC 60364-7-708:2017; HD 60364-7-708:2017)  
Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations (IEC 60364-7-708:2017; HD 60364-7-708:2017)

- **treba biti**

HRN HD 60364-7-708:2017  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za **kamp prikolice i šatore te slični prostori** (IEC 60364-7-708:2017; HD 60364-7-708:2017)  
Low-voltage electrical installations – Part 7-708: Requirements for special installations or locations – Caravan parks, camping parks and similar locations (IEC 60364-7-708:2017; HD 60364-7-708:2017)

### HZN/TO T4, Normizacija u telekomunikacijama

- **umjesto**

HRN EN 300 471-2:2002  
Elektromagnetska kompatibilnost i **radiospektar** (ERM) – Kopnena pokretna služba – **Pristupni protokol, pravila zauzeća i odgovarajuće tehničke značajke radijskih uređaja za prijenos podataka na zajedničkim kanalima** – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 300 471-2:2001 V1.1.1)  
Electromagnetic compatibility and radio spectrum matters (ERM) – Land mobile service – **Access protocol, occupation rules and corresponding technical characteristics of radio equipment for the transmission of data on shared channels** – Part 2: Harmonized EN covering essential requirements under Article 3.2 of the R&TTE Directive (EN 300 471-2:2001 V1.1.1)

- **treba biti**

HRN EN 300 471-2:2002  
Elektromagnetska kompatibilnost i **radijski spektar** (ERM) – Kopnena pokretna služba – **Pravila za pristup i dijeljenje zajednički korištenih kanala za opremu koja je sukladna s EN 300 113** – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 300 471-2:2001 V1.1.1)  
Electromagnetic Compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – **Rules for Access and the Sharing of common used channels by equipment complying with EN 300 113** – Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive (EN 300 471-2:2001 V1.1.1)

### HZN/TU N1, Nemetalni materijali 1

- **umjesto**

HRN EN 16214-1:2013  
**Održivi kriteriji** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriterij**, indikatori i **provjere** – 1. dio: Nazivlje (EN 16214-1:2012)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology (EN 16214-1:2012)

- **treba biti**

HRN EN 16214-1:2013  
**Kriteriji održivosti** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriteriji**, indikatori i **sredstva za provjeru** – 1. dio: Nazivlje (EN 16214-1:2012)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology (EN 16214-1:2012)

• **umjesto**  
HRS CEN/TS 16214-2:2014  
**Održivi kriteriji** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriterij**, indikatori i **provjere** – 2. dio: Ocjena sukladnosti koja uključuje lanac nadzora i bilancu (CEN/TS 16214-2:2014)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 2: Conformity assessment including chain of custody and mass balance (CEN/TS 16214-2:2014)

• **treba biti**  
HRS CEN/TS 16214-2:2014  
**Kriteriji održivosti** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriteriji**, indikatori i **sredstva za provjeru** – 2. dio: Ocjena sukladnosti koja uključuje lanac nadzora i bilancu (CEN/TS 16214-2:2014)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 2: Conformity assessment including chain of custody and mass balance (CEN/TS 16214-2:2014)

• **umjesto**  
HRN EN 16214-3:2017  
**Održivi kriteriji** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriterij**, indikatori i **provjere** – 3. dio: Bioraznolikost i ekološki aspekti vezani za zaštitu prirode (EN 16214-3:2012+A1:2017)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 3: Biodiversity and environmental aspects related to nature protection purposes (EN 16214-3:2012+A1:2017)

• **treba biti**  
HRN EN 16214-3:2017  
**Kriteriji održivosti** za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, **kriteriji**, indikatori i **sredstva za provjeru** – 3. dio: Bioraznolikost i ekološki aspekti vezani za zaštitu prirode (EN 16214-3:2012+A1:2017)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 3: Biodiversity and environmental aspects related to nature protection purposes (EN 16214-3:2012+A1:2017)

• **umjesto**  
HRN EN 16214-4:2013  
**Održivi kriteriji** za proizvodnju biogoriva i biotekućina za dobivanje energije – **Principi**, **kriterij**, indikatori i **verifikacije** – 4. dio: Metode izračuna bilance emisije stakleničkih plinova pomoću pristupa analize životnoga ciklusa (EN 16214-4:2013)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach (EN 16214-4:2013)

• **treba biti**  
HRN EN 16214-4:2013  
**Kriteriji održivosti** za proizvodnju biogoriva i biotekućina za dobivanje energije – **Načela**, **kriteriji**, indikatori i **sredstva za provjeru** – 4. dio: Metode izračuna bilance emisije stakleničkih plinova pomoću pristupa analize životnoga ciklusa (EN 16214-4:2013)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach (EN 16214-4:2013)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

Te su hrvatske norme ranije objavljene samo s naslovima na engleskome jeziku pa se sada objavljuju njihovi naslovi na hrvatskome jeziku, koji nisu nužno uključeni u norme koje su prethodno objavljene. Obavijest o naslovima na hrvatskome jeziku smatra se službenom informacijom.

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

HRN EN ISO 20519:2017 en pr  
Brodovi i pomorska tehnologija – Specifikacija za ukrcavanje goriva u brodove na ukapljeni prirodni plin (ISO 20519:2017; EN ISO 20519:2017)  
Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels (ISO 20519:2017; EN ISO 20519:2017)

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

HRS CEN ISO/TS 18234-4:2008 en pr  
Informacije o prometu i putovanju – TTI dobivene prijenosom podataka na temelju protokola o transportu skupine stručnjaka (TPEG) – 4. dio: Aplikacija za poruke u cestovnom prometu (RTM) (ISO/TS 18234-4:2006; CEN ISO/TS 18234-4:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Expert Group (TPEG) data-streams – Part 4: Road Traffic Message (RTM) application (ISO/TS 18234-4:2006; CEN ISO/TS 18234-4:2006)

HRS CEN ISO/TS 18234-5:2008 en pr  
Informacije o prometu i putovanju (TTI) – TTI dobivene prijenosom podataka na temelju protokola o transportu skupine stručnjaka (TPEG) – 5. dio: Aplikacija za poruke u javnom prijevozu (PTI) (ISO/TS 18234-5:2006; CEN ISO/TS 18234-5:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Expert Group (TPEG) data-streams – Part 5: Public Transport Information (PTI) application (ISO/TS 18234-5:2006; CEN ISO/TS 18234-5:2006)

HRS CEN ISO/TS 24530-1:2008 en pr  
Informacije o prometu i putovanju (TTI) – TTI dobivene XML jezikom za označavanje na temelju protokola skupine stručnjaka (TPEG) – 1. dio: Uvod, uobičajeni tipovi podataka i tpegML format podataka (ISO/TS 24530-1:2006; CEN ISO/TS 24530-1:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) – Part 1: Introduction, common data types and tpegML (ISO/TS 24530-1:2006; CEN ISO/TS 24530-1:2006)

HRS CEN ISO/TS 24530-2:2008 en pr  
Informacije o prometu i putovanju (TTI) – TTI dobivene XML jezikom za označavanje na temelju protokola skupine stručnjaka (TPEG) – 2. dio: tpeg-locML format podataka (ISO/TS 24530-2:2006; CEN ISO/TS 24530-2:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) – Part 2: tpeg-locML (ISO/TS 24530-2:2006; CEN ISO/TS 24530-2:2006)

HRS CEN ISO/TS 24530-3:2008 en pr  
Informacije o prometu i putovanju (TTI) – TTI dobivene XML jezikom za označavanje na temelju protokola skupine stručnjaka (TPEG) – 3. dio: tpeg-rtmML format podataka (ISO/TS 24530-3:2006; CEN ISO/TS 24530-3:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) – Part 3: tpeg-rtmML (ISO/TS 24530-3:2006; CEN ISO/TS 24530-3:2006)

HRS CEN ISO/TS 24530-4:2008 en pr  
Informacije o prometu i putovanju (TTI) – TTI dobivene XML jezikom za označavanje na temelju protokola skupine stručnjaka (TPEG) – 4. dio: tpeg-ptiML format podataka (ISO/TS 24530-4:2006; CEN ISO/TS 24530-4:2006)  
Traffic and Travel Information (TTI) – TTI via Transport Protocol Experts Group (TPEG) Extensible Markup Language (XML) – Part 4: tpeg-ptiML (ISO/TS 24530-4:2006; CEN ISO/TS 24530-4:2006)



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

HRN EN 50569:2014 en pr  
Kućanski i slični električni aparati – Sigurnost – Posebni zahtjevi za komercijalne električne centrifuge rublja (EN 50569:2013)  
Household and similar electrical appliances – Safety – Particular requirements for commercial electric spin extractors (EN 50569:2013)

HRN EN 50570:2014 en pr  
Kućanski i slični električni aparati – Sigurnost – Posebni zahtjevi za komercijalne električne bubnjaste sušilice rublja (EN 50570:2013)  
Household and similar electrical appliances – Safety – Particular requirements for commercial electric tumble dryers (EN 50570:2013)

HRN EN 50571:2014 en pr  
Kućanski i slični električni aparati – Sigurnost – Posebni zahtjevi za komercijalne električne perilice rublja (EN 50571:2013)  
Household and similar electrical appliances – Safety – Particular requirements for commercial electric washing machines (EN 50571:2013)

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

HRN EN 50849:2017 en pr  
Audiosustavi za slučajeve opasnosti (EN 50849:2017)  
Sound systems for emergency purposes (EN 50849:2017)

HRN EN 62680-1-2:2017 en pr  
Sučelja univerzalnih serijskih sabirnica za podatke i napajanje – Dio 1-2: Opći dijelovi – Specifikacija USB-a za isporuku energije (IEC 62680-1-2:2016; EN 62680-1-2:2017)  
Universal Serial Bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery Specification (IEC 62680-1-2:2016; EN 62680-1-2:2017)

HRN EN 62680-1-3:2016 en pr  
Sučelja univerzalne serijske sabirnice za podatke i napajanje – Dio 1-3: Sučelja univerzalnih serijskih sabirnica – Opći dijelovi – Specifikacija kabela i konektora za USB tipa CTM (IEC 62680-1-3:2016; EN 62680-1-3:2016)  
Universal serial bus interfaces for data and power – Part 1-3: Universal Serial Bus interfaces – Common components – USB Type-CTM cable and connector specification (IEC 62680-1-3:2016; EN 62680-1-3:2016)

HRN EN 62753:2015 en pr  
Prijamnici digitalne terestrijalne televizije za DTMB sustav (IEC 62753:2015; EN 62753:2015)  
Digital terrestrial television receivers for the DTMB system (IEC 62753:2015; EN 62753:2015)

HRN EN 62827-3:2017 en pr  
Bežični prijenos energije – Upravljanje – 3. dio: Upravljanje regulacijom više izvora (IEC 62827-3:2016; EN 62827-3:2017)  
Wireless power transfer – Management – Part 3: Multiple source control management (IEC 62827-3:2016; EN 62827-3:2017)

HRN EN 63002:2017 en pr  
Metoda prepoznavanja i interoperabilnosti komunikacije s vanjskim izvorima napajanja koji se upotrebljavaju kod prijenosnih računala (TA 14) (IEC 63002:2016; EN 63002:2017)  
Identification and communication interoperability method for external power supplies used with portable computing devices (TA 14) (IEC 63002:2016; EN 63002:2017)

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

HRN EN 302 536-1 V1.1.1:2009 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema u frekventijskom području 315 kHz do 600 kHz – 1. dio: Tehničke karakteristike i ispitne metode (EN 302 536-1 V1.1.1:2007)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment in the frequency range 315 kHz to 600 kHz – Part 1: Technical characteristics and test methods (EN 302 536-1 V1.1.1:2007)

HRN EN 301 925 V1.1.1:2009 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Radiotelefonski odašiljači i prijammici za pomorsku pokretnu službu u VHF frekventijskim pojasima – Tehničke karakteristike i metode mjerenja (EN 301 925 V1.1.1:2002)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands – Technical characteristics and methods of measurement (EN 301 925 V1.1.1:2002)

HRN EN 301 925 V1.2.1:2009 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Radiotelefonski odašiljači i prijammici za pomorsku pokretnu službu u VHF frekventijskim pojasima – Tehničke karakteristike i metode mjerenja (EN 301 925 V1.2.1:2006)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands – Technical characteristics and methods of measurement (EN 301 925 V1.2.1:2006)

HRN ETS 300 019-2-1 V1:2010 en pr  
Ekoinženjering (EE) – Uvjeti i ispitivanja telekomunikacijske opreme s obzirom na okoliš – Dio 2-1: Specifikacija ispitivanja s obzirom na okoliš – Pohrana (ETS 300 019-2-1 ed.1:1994)  
Equipment Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-1: Specification of environmental tests – Storage (ETS 300 019-2-1 ed.1:1994)

HRN EN 300 019-2-1 V2.1.2:2009 en pr  
Ekoinženjering (EE) – Uvjeti i ispitivanja telekomunikacijske opreme s obzirom na okoliš – Dio 2-1: Specifikacija ispitivanja s obzirom na okoliš – Pohrana (EN 300 019-2-1 V2.1.2:2000)  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-1: Specification of environmental tests – Storage (EN 300 019-2-1 V2.1.2:2000)

HRN EN 300 797 V1.1.1:2009 en pr  
Digitalna audio radiodifuzija (DAB) – Distribucijska sučelja – Servisno transportno sučelje (STI) (STI) (EN 300 797 V1.1.1:1999)  
Digital Audio Broadcasting (DAB) – Distribution interfaces – Service Transport Interface (STI) (EN 300 797 V1.1.1:1999)

HRN EN 300 797 V1.2.1:2009 en pr  
Digitalna audio radiodifuzija (DAB) – Distribucijska sučelja – Servisno transportno sučelje (STI) (EN 300 797 V1.2.1:2005)  
Digital Audio Broadcasting (DAB) – Distribution interfaces – Service Transport Interface (STI) (EN 300 797 V1.2.1:2005)

## **HZN/TU I1, Strojarstvo 1**

HRN EN 16486:2015 en pr  
Strojari za zbijanje otpada ili recikliranih frakcija – Zbijači – Sigurnosni zahtjevi (EN 16486:2014)  
Machines for compacting waste materials or recyclable fractions – Compactors – Safety requirements (EN 16486:2014)

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

HRN EN 16723-2:2017 en pr  
Prirodni plin i biometan za uporabu u prijevozu i biometan za ubrizgavanje u mrežu prirodnog plina – 2. dio: Specifikacije za goriva za motorna vozila (EN 16723-2:2017)  
Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network – Part 2: Automotive fuel specifications (EN 16723-2:2017)

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

HRN EN 50407-3:2014 en pr  
Kabeli s više parica u telekomunikacijskim mrežama s velikom brzinom prijenosa – 3. dio: Unutarnji kabeli s više parica/usponski kabeli do 100 MHz za maksimalne duljine spajanja 100 m koji podržavaju univerzalne usluge, xDSL i primjene do 100 Mbit/s preko IP-a (EN 50407-3:2014)  
Multi-pair cables used in high bit rate digital access telecommunications networks – Part 3: Indoor multi-pair/quad riser cables up to 100 MHz for maximum length of connection 100 m supporting universal services, xDSL and applications up to 100 Mbit/s over IP (EN 50407-3:2014)



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

HRN EN 50434:2014 en pr  
Sigurnost kućanskih i sličnih aparata – Posebni zahtjevi za mrežno napajane usitnjavačice i sjeckalice (EN 50434:2014)  
Safety of household and similar appliances – Particular requirements for mains operated shredders and chippers (EN 50434:2014)

HRN EN 50636-2-94:2014 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-94: Posebni zahtjevi za šišalice za travu škarastog tipa (IEC 60335-2-94:2008, MOD; EN 50636-2-94:2014)  
Household and similar electrical appliances – Safety – Part 2-94: Particular requirements for scissors type grass shears (IEC 60335-2-94:2008, MOD; EN 50636-2-94:2014)

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

### 01.040.01 Opći pojmovi. Nazivlje. Normizacija. Dokumentacija (Rječnici)

Međunarodna normizacija  
IEC

IEC 62656-5:2017  
Standardized product ontology register and transfer by spreadsheets – Part 5: Interface for activity description

### 01.040.07 Matematika. Prirodne znanosti (Rječnici)

Međunarodna normizacija  
ISO

ISO/TR 18401:2017  
Nanotechnologies – Plain language explanation of selected terms from the ISO/IEC 80004 series

### 01.040.21 Mehanički sustavi i sastavni dijelovi za opću upotrebu (Rječnici)

Međunarodna normizacija  
ISO

ISO 4378-1:2017  
Plain bearings – Terms, definitions, classification and symbols – Part 1: Design, bearing materials and their properties

ISO 4378-2:2017  
Plain bearings – Terms, definitions, classification and symbols – Part 2: Friction and wear

ISO 4378-3:2017  
Plain bearings – Terms, definitions, classification and symbols – Part 3: Lubrication

### 01.040.29 Elektrotehnika (Rječnici)

Međunarodna normizacija  
IEC

IEC 60700-2:2016/Cor1:2017  
Corrigendum 1 – Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology

### 01.040.31 Elektronika (Rječnici)

Međunarodna normizacija  
IEC

IEC 60700-2:2016/Cor1:2017  
Corrigendum 1 – Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology

### 01.040.83 Industrija gume i plastike (Rječnici)

Međunarodna normizacija  
ISO

ISO 6472:2017  
Rubber compounding ingredients – Abbreviated terms

### 01.040.87 Industrija boja (Rječnici)

Međunarodna normizacija  
ISO

ISO 19403-1:2017  
Paints and varnishes – Wettability – Part 1: Terminology and general principles

ISO 19403-2:2017  
Paints and varnishes – Wettability – Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle

ISO 19403-3:2017  
Paints and varnishes – Wettability – Part 3: Determination of the surface tension of liquids using the pendant drop method

ISO 19403-4:2017  
Paints and varnishes – Wettability – Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension

ISO 19403-5:2017  
Paints and varnishes – Wettability – Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy

ISO 19403-6:2017  
Paints and varnishes – Wettability – Part 6: Measurement of dynamic contact angle

ISO 19403-7:2017  
Paints and varnishes – Wettability – Part 7: Measurement of the contact angle on a tilt stage (roll-off angle)

### 01.040.91 Konstrukcijski materijali i gradnja (Rječnici)

Međunarodna normizacija  
ISO

ISO 19720-1:2017  
Building construction machinery and equipment – Plants for the preparation of concrete and mortar – Part 1: Terminology and commercial specifications

### 01.110 Tehnička dokumentacija o proizvodu

Međunarodna normizacija  
IEC

IEC 61987-24-2:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 24-2: Lists of properties (LOPs) of valve/actuator accessories for electronic data exchange

IEC 61987-24-3:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 24-3: Lists of properties (LOPs) of flow modification accessories for electronic data exchange

IEC 62656-5:2017  
Standardized product ontology register and transfer by spreadsheets – Part 5: Interface for activity description

### 01.120 Normizacija. Opća pravila

Europska normizacija  
CEN

CEN/CLC Guide 35:2017  
Modalities for the common sessions of CEN and CENELEC governing bodies and for the common meetings of their advisory groups

## 01.140.20 Informacijske znanosti

### Međunarodna normizacija ISO

ISO 18829:2017  
Document management – Assessing ECM/EDRM implementations – Trustworthiness

## 03.080.99 Ostale usluge

### Europska normizacija CEN

EN 16844:2017  
Aesthetic medicine services – Non-surgical medical treatments

### Međunarodna normizacija ISO/IEC

ISO/IEC 20000-6:2017  
Information technology – Service management – Part 6: Requirements for bodies providing audit and certification of service management systems

## 03.100.02 Odgovorno upravljanje i etika

### Europska normizacija CEN

CWA 17145-2:2017  
Ethics assessment for research and innovation – Part 2: Ethical impact assessment framework

## 03.100.40 Istraživanje i razvoj

### Europska normizacija CEN

CWA 17145-2:2017  
Ethics assessment for research and innovation – Part 2: Ethical impact assessment framework

## 03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti

### Međunarodna normizacija ISO

ISO/IEC TR 17028:2017  
Conformity assessment – Guidelines and examples of a certification scheme for services

ISO/IEC 20000-6:2017  
Information technology – Service management – Part 6: Requirements for bodies providing audit and certification of service management systems

### IEC

ISO/IEC TR 17028:2017  
Conformity assessment – Guidelines and examples of a certification scheme for services

ISO/IEC 20000-6:2017  
Information technology – Service management – Part 6: Requirements for bodies providing audit and certification of service management systems

IECEE 02  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System) – Rules of Procedure – CB Scheme – Scheme of the IECEE for Mutual Recognition of Test Certificates for Electrotechnical Equipment and Components (CB Scheme)

IECEE 02-1  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System) – Structure, Constitution & Organization

IECEE 02-2  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System) – IECEE Membership

## 03.220.20 Cestovni prijevoz

### Međunarodna normizacija ISO

ISO 12813:2015/Amd 1:2017  
Electronic fee collection – Compliance check communication for autonomous systems; Amendment 1

ISO 13111-1:2017  
Intelligent transport systems (ITS) – The use of personal ITS station to support ITS service provision for travellers – Part 1: General information and use case definitions

ISO 13141:2015/Amd 1:2017  
Electronic fee collection – Localisation augmentation communication for autonomous systems; Amendment 1

ISO 15638-10:2017  
Intelligent transport systems – Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) – Part 10: Emergency messaging system/eCall

ISO 15638-18:2017  
Intelligent transport systems – Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) – Part 18: ADR (Dangerous Goods)

ISO 17361:2017  
Intelligent transport systems – Lane departure warning systems – Performance requirements and test procedures

## 07.030 Fizika. Kemija

### Međunarodna normizacija ISO

ISO 20480-1:2017  
Fine bubble technology – General principles for usage and measurement of fine bubbles – Part 1: Terminology

## 07.100.20 Mikrobiologija vode

### Međunarodna normizacija ISO

ISO 13843:2017  
Water quality – Requirements for establishing performance characteristics of quantitative microbiological methods

## 07.100.30 Mikrobiologija hrane

### Međunarodna normizacija ISO

ISO 10272-1:2017  
Microbiology of the food chain – Horizontal method for detection and enumeration of *Campylobacter* spp. – Part 1: Detection method

ISO 10272-2:2017  
Microbiology of the food chain – Horizontal method for detection and enumeration of *Campylobacter* spp. – Part 2: Colony-count technique

ISO 19020:2017  
Microbiology of the food chain – Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in foodstuffs

ISO 19343:2017  
Microbiology of the food chain – Detection and quantification of histamine in fish and fishery products – HPLC method

ISO 21528-1:2017  
Microbiology of the food chain – Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 1: Detection of Enterobacteriaceae

ISO 21528-2:2017  
Microbiology of the food chain – Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique

## 07.100.40 Mikrobiologija u kozmetici

### Međunarodna normizacija ISO

ISO 16212:2017  
Cosmetics – Microbiology – Enumeration of yeast and mould

## 07.100.99 Ostale norme koje se odnose na mikrobiologiju

### Međunarodna normizacija ISO

ISO 18415:2017  
Cosmetics – Microbiology – Detection of specified and non-specified microorganisms

ISO 21148:2017  
Cosmetics – Microbiology – General instructions for microbiological examination

ISO 21149:2017  
Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria

## 07.120 Nanotehnologije

### Međunarodna normizacija ISO

ISO/TR 18401:2017  
Nanotechnologies – Plain language explanation of selected terms from the ISO/IEC 80004 series

ISO/TR 19601:2017  
Nanotechnologies – Aerosol generation for air exposure studies of nano-objects and their aggregates and agglomerates (NOAA)

## 11.020.10 Usluge zdravstvene zaštite općenito

### Europska normizacija CEN

EN 16844:2017  
Aesthetic medicine services – Non-surgical medical treatments

## 11.040.01 Medicinska oprema općenito

### Međunarodna normizacija ISO

ISO/TR 80002-2:2017  
Medical device software – Part 2: Validation of software for medical device quality systems

## 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

### Međunarodna normizacija ISO

ISO 11491:2017  
Implants for surgery – Determination of impact resistance of ceramic femoral heads for hip joint prostheses

ISO 18192-3:2017  
Implants for surgery – Wear of total intervertebral spinal disc prostheses – Part 3: Impingement-wear testing and corresponding environmental conditions for test of lumbar prostheses under adverse kinematic conditions

## 11.040.55 Dijagnostička oprema

### Međunarodna normizacija IEC

IEC 60601-2-28:2017  
Medical electrical equipment – Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis

## 11.040.60 Terapeutska oprema

### Europska normizacija CENELEC

EN 62127-2:2007/A2:2017  
Ultrasonics – Hydrophones – Part 2: Calibration for ultrasonic fields up to 40 MHz (IEC 62127-2:2007/A2:2017)

## 11.060.01 Stomatologija općenito

### Međunarodna normizacija ISO

ISO/TR 18845:2017  
Dentistry – Test methods for machining accuracy of computer-aided milling machines

## 11.080.01 Sterilizacija i dezinfekcija općenito

### Međunarodna normizacija ISO

ISO 11137-3:2017  
Sterilization of health care products – Radiation – Part 3: Guidance on dosimetric aspects of development, validation and routine control

## 11.180.01 Pomagala za osobe s invaliditetom općenito

### Europska normizacija CEN

EN 16587:2017  
Railway applications – Design for PRM Use – Requirements on obstacle free routes for infrastructure

## 11.180.20 Pomagala za inkontinenciju i ostomiju

### Međunarodna normizacija ISO

ISO 15621:2017  
Absorbent incontinence aids for urine and/or faeces – General guidelines on evaluation

## 13.020.10 Upravljanje okolišem

### Međunarodna normizacija ISO

ISO/TR 14073:2017  
Environmental management – Water footprint – Illustrative examples on how to apply ISO 14046

## 13.020.60 Životni ciklusi proizvoda

### Međunarodna normizacija ISO

ISO/TR 14073:2017  
Environmental management – Water footprint – Illustrative examples on how to apply ISO 14046



### 13.040.20 Atmosfera okoliša

Europska normizacija  
CEN

EN 16913:2017  
Ambient air – Standard method for measurement of NO<sub>3</sub><sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, Cl<sup>-</sup>, NH<sub>4</sub><sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, Mg<sup>2+</sup>, Ca<sup>2+</sup> in PM<sub>2,5</sub> as deposited on filters

### 13.040.30 Atmosfera u radnome prostoru

Europska normizacija  
CEN

EN 16897:2017  
Workplace exposure – Characterization of ultrafine aerosols/nanoaerosols – Determination of number concentration using condensation particle counters

### 13.060.70 Ispitivanje bioloških svojstava vode

Međunarodna normizacija  
ISO

ISO 20227:2017  
Water quality – Determination of the growth inhibition effects of waste waters, natural waters and chemicals on the duckweed *Spirodela polyrhiza* – Method using a stock culture independent microbiotest

### 13.110 Sigurnost strojeva

Europska normizacija  
CENELEC

EN 62745:2017  
Safety of machinery – Requirements for cableless control systems of machinery (IEC 62745:2017)

### 13.160 Utjecaj vibracija i udara na ljude

Međunarodna normizacija  
ISO

ISO/TR 19664:2017  
Human response to vibration – Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety

### 13.220.01 Zaštita od požara općenito

Međunarodna normizacija  
ISO

ISO/TR 16576:2017  
Fire safety engineering – Examples of fire safety objectives, functional requirements and safety criteria

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

Europska normizacija  
CENELEC

EN 60695-11-5:2017  
Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-5:2016)

Međunarodna normizacija  
IEC

IEC 60695-11-2:2017  
Fire hazard testing – Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

### 13.220.50 Vatrootpornost građevnih materijala i elemenata

Europska normizacija  
CEN

EN 1364-5:2017  
Fire resistance tests for non-loadbearing elements – Part 5: Air transfer grilles

Međunarodna normizacija  
ISO

ISO 3008-2:2017  
Fire-resistance tests – Part 2: Lift landing door assemblies

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

Međunarodna normizacija  
IEC

IEC 61057:2017  
Live working – Insulating aerial devices for mounting on a chassis

### 13.280 Zaštita od zračenja

Međunarodna normizacija  
IEC

IEC/IEEE 62704-2:2017  
Determining the peak spatial-average specific absorption rate (SAR) in the human body from wireless communications devices, 30 MHz to 6 GHz – Part 2: Specific requirements for finite difference time domain (FDTD) modelling of exposure from vehicle mounted antennas

### 17.120.20 Protok u otvorenim kanalima

Međunarodna normizacija  
ISO

ISO 4359:2013/Amd 1:2017  
Flow measurement structures – Rectangular, trapezoidal and U-shaped flumes; Amendment 1

### 17.140.01 Akustička mjerenja i smanjenje buke općenito

Međunarodna normizacija  
ISO

ISO 532-1:2017  
Acoustics – Methods for calculating loudness – Part 1: Zwicker method

ISO 532-2:2017  
Acoustics – Methods for calculating loudness – Part 2: Moore-Glasberg method

### 17.140.50 Elektroakustika

Europska normizacija  
CENELEC

EN 62127-2:2007/A2:2017  
Ultrasonics – Hydrophones – Part 2: Calibration for ultrasonic fields up to 40 MHz (IEC 62127-2:2007/A2:2017)

## 17.160 Vibracije, udari i mjerenja vibracija

### Međunarodna normizacija ISO

ISO/TR 19664:2017

Human response to vibration – Guidance and terminology for instrumentation and equipment for the assessment of daily vibration exposure at the workplace according to the requirements of health and safety

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Europska normizacija CENELEC

EN 50647:2017

Basic standard for the evaluation of workers' exposure to electric and magnetic fields from equipment and installations for the production, transmission and distribution of electricity

## 17.240 Mjerenja zračenja

### Europska normizacija CENELEC

EN 50647:2017

Basic standard for the evaluation of workers' exposure to electric and magnetic fields from equipment and installations for the production, transmission and distribution of electricity

## 19.040 Ispitivanje utjecaja okoliša

### Europska normizacija CENELEC

EN 60068-2-69:2017

Environmental testing – Part 2-69: Tests – Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method (IEC 60068-2-69:2017)

## 19.100 Nerazorna ispitivanja

### Europska normizacija CEN

CEN/TR 17108:2017

Non-destructive testing – Lighting in penetrant and magnetic particle testing, good practice

## 21.100.10 Klizni ležajevi

### Međunarodna normizacija ISO

ISO 4378-1:2017

Plain bearings – Terms, definitions, classification and symbols – Part 1: Design, bearing materials and their properties

ISO 4378-2:2017

Plain bearings – Terms, definitions, classification and symbols – Part 2: Friction and wear

ISO 4378-3:2017

Plain bearings – Terms, definitions, classification and symbols – Part 3: Lubrication

## 21.160 Opruge

### Međunarodna normizacija ISO

ISO 26910-1:2009/Amd 1:2017

Springs – Shot peening – Part 1: General procedures; Amendment 1

## 23.020.01 Uređaji za skladištenje fluida općenito

### Europska normizacija CEN

EN 1993-4-2:2007/A1:2017

Eurocode 3 – Design of steel structures – Part 4-2: Tanks

## 23.020.10 Nepomični kontejneri i spremnici

### Europska normizacija CEN

EN 1993-4-2:2007/A1:2017

Eurocode 3 – Design of steel structures – Part 4-2: Tanks

## 23.020.35 Plinske boce

### Europska normizacija CEN

EN 1439:2017

LPG equipment and accessories – Procedure for checking transportable refillable LPG cylinders before, during and after filling

EN 13952:2017

LPG equipment and accessories – Filling operations for LPG cylinders

## 23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

### Europska normizacija CEN

EN 13480-1:2017

Metallic industrial piping – Part 1: General

### Međunarodna normizacija ISO

ISO 18468:2017

Ductile iron fittings, accessories and their joints and valves – Epoxy coating

## 23.040.03 Cjevovodi i dijelovi za vanjske vodovodne sustave

### Europska normizacija CEN

EN 13480-2:2017

Metallic industrial piping – Part 2: Materials

EN 13480-3:2017

Metallic industrial piping – Part 3: Design and calculation

EN 13480-4:2017

Metallic industrial piping – Part 4: Fabrication and installation

EN 13480-5:2017

Metallic industrial piping – Part 5: Inspection and testing

EN 13480-6:2017

Metallic industrial piping – Part 6: Additional requirements for buried piping

EN 13480-8:2017

Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping

## 23.040.10 Cijevi od lijevanog željeza i čelika

### Međunarodna normizacija ISO

ISO 18468:2017

Ductile iron fittings, accessories and their joints and valves – Epoxy coating

## 23.040.20 Plastične cijevi

### Međunarodna normizacija ISO

- ISO 7510:2017  
Plastics piping systems – Glass-reinforced plastics (GRP) components – Determination of the amounts of constituents
- ISO 16611:2017  
Plastics piping systems for drainage and sewerage without pressure – Non-circular pipes and joints made of glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resins (UP) – Dimensions, requirements and tests

## 23.040.45 Plastične spojnice

### Međunarodna normizacija ISO

- ISO 7510:2017  
Plastics piping systems – Glass-reinforced plastics (GRP) components – Determination of the amounts of constituents
- ISO 16611:2017  
Plastics piping systems for drainage and sewerage without pressure – Non-circular pipes and joints made of glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resins (UP) – Dimensions, requirements and tests

## 23.040.70 Crijeva i crijevni sklopovi

### Europska normizacija CEN

- EN 16820:2017  
Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry – Bonded elastomeric hoses with or without a lining
- EN 16821:2017  
Rubber and plastics hoses and hose assemblies for use in the pharmaceutical and biotechnological industry – Silicone rubber hoses

## 23.100.40 Cijevovodi i spojnice

### Međunarodna normizacija ISO

- ISO 6605:2017  
Hydraulic fluid power – Test methods for hoses and hose assemblies

## 23.140 Kompresori i pneumatski strojevi

### Međunarodna normizacija IEC

- IEC 60335-2-34:2012/Amd2:2016/Cor1:2017  
Corrigendum 1 – Amendment 2 – Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors

## 25.040.01 Sustavi industrijske automatizacije općenito

### Međunarodna normizacija IEC

- IEC 62657-1:2017  
Industrial communication networks – Wireless communication networks – Part 1: Wireless communication requirements and spectrum considerations

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

### Međunarodna normizacija IEC

- IEC 61987-24-2:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 24-2: Lists of properties (LOPs) of valve/actuator accessories for electronic data exchange
- IEC 61987-24-3:2017  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 24-3: Lists of properties (LOPs) of flow modification accessories for electronic data exchange
- IEC/TR 62453-51-20:2017  
Field device tool (FDT) interface specification – Part 51-20: Communication implementation for common object model – IEC 61784 CPF 2
- IEC/TR 62453-51-31:2017  
Field device tool (FDT) interface specification – Part 51-31: Communication implementation for common object model – IEC 61784 CP 3/1 and CP 3/2
- IEC/TR 62453-51-32:2017  
Field device tool (FDT) interface specification – Part 51-32: Communication implementation for common object model – IEC 61784 CP 3/4, CP 3/5 and CP 3/6
- IEC/TR 62453-51-60:2017  
Field device tool (FDT) interface specification – Part 51-60: Communication implementation for common object model – IEC 61784 CPF 6
- IEC/TR 62453-51-90:2017  
Field device tool (FDT) interface specification – Part 51-90: Communication implementation for common object model – IEC 61784 CPF 9
- IEC/TR 62453-51-150:2017  
Field device tool (FDT) interface specification – Part 51-150: Communication implementation for common object model – IEC 61784 CPF 15

## 25.140.01 Ručni alati općenito

### Međunarodna normizacija ISO

- ISO 2725-2:2017  
Assembly tools for screws and nuts – Square drive sockets – Part 2: Machine-operated sockets ("impact")
- ISO 2725-3:2017  
Assembly tools for screws and nuts – Square drive sockets – Part 3: Machine-operated sockets ("non-impact")

## 25.140.20 Električni alati

### Europska normizacija CENELEC

- EN 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 62841-2-10:2017, modified)
- EN 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 (IEC 62841-3-13:2017, modified)

### Međunarodna normizacija IEC

- IEC 62841-2-1:2017  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-1: Particular requirements for hand-held drills and impact drills

## 25.140.30 Ručno pokretani alati

### Međunarodna normizacija ISO

ISO 2725-1:2017  
Assembly tools for screws and nuts – Square drive sockets  
– Part 1: Hand-operated sockets

## 25.160.10 Procesi zavarivanja

### Međunarodna normizacija ISO

ISO 15614-1:2017  
Specification and qualification of welding procedures for  
metallic materials – Welding procedure test – Part 1: Arc and  
gas welding of steels and arc welding of nickel and nickel  
alloys

## 25.160.20 Dodatni i potrošni materijali za zavarivanje

### Europska normizacija CEN

EN 13479:2017  
Welding consumables – General product standard for filler  
metals and fluxes for fusion welding of metallic materials

### Međunarodna normizacija ISO

ISO 636:2017  
Welding consumables – Rods, wires and deposits for  
tungsten inert gas welding of non-alloy and fine-grain steels  
– Classification

## 27.010 Tehnika prijenosa energije i topline općenito

### Europska normizacija CENELEC

EN 62325-451-1:2017  
Framework for energy market communications – Part 451-1:  
Acknowledgement business process and contextual model  
for CIM European market (IEC 62325-451-1:2017)

## 27.060.10 Plamenici za tekuće i kruto gorivo

### Međunarodna normizacija ISO

ISO 6806:2017  
Rubber hoses and hose assemblies for use in oil burners  
– Specification

## 27.120.20 Nuklearne elektrane. Sigurnost

### Međunarodna normizacija IEC

IEC/TR 63084:2017  
Nuclear power plants – Instrumentation and control important  
to safety – Platform qualification for systems important to  
safety

## 27.120.30 Fisijski materijali i tehnologija nuklearnog goriva

### Međunarodna normizacija ISO

ISO 12800:2017  
Nuclear fuel technology – Guidelines on the measurement of  
the specific surface area of uranium oxide powders by the  
BET method

## 27.180 Sustavi vjetroagregata

### Europska normizacija CENELEC

EN 61400-12-1:2017  
Wind power generation systems – Part 12-1: Power  
performance measurement of electricity producing wind  
turbines (IEC 61400-12-1:2017)

## 27.190 Biološki izvori i alternativni izvori energije

### Europska normizacija CEN

EN 16723-2:2017  
Natural gas and biomethane for use in transport and  
biomethane for injection in the natural gas network – Part 2:  
Automotive fuels specification

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

EN 60695-11-5:2017  
Fire hazard testing – Part 11-5: Test flames – Needle-flame  
test method – Apparatus, confirmatory test arrangement and  
guidance (IEC 60695-11-5:2016)

### Međunarodna normizacija IEC

IECEE 02  
IEC System of Conformity Assessment Schemes for  
Electrotechnical Equipment and Components (IECEE System)  
– Rules of Procedure – CB Scheme – Scheme of the IECEE  
for Mutual Recognition of Test Certificates for Electrotechnical  
Equipment and Components (CB Scheme)

IECEE 02-1  
IEC System of Conformity Assessment Schemes for  
Electrotechnical Equipment and Components (IECEE  
System) – Structure, Constitution & Organization

IECEE 02-2  
IEC System of Conformity Assessment Schemes for  
Electrotechnical Equipment and Components (IECEE  
System) – IECEE Membership

IEC 60364-7-721:2017  
Low-voltage electrical installations – Part 7-721: Requirements  
for special installations or locations – Electrical installations in  
caravans and motor caravans

IEC 60695-11-2:2017  
Fire hazard testing – Part 11-2: Test flames – 1 kW nominal  
pre-mixed flame – Apparatus, confirmatory test arrangement  
and guidance

## 29.060.20 Kabeli

### Međunarodna normizacija IEC

IEC 60287-3-1:2017  
Electric cables – Calculation of the current rating – Part 3-1:  
Operating conditions – Site reference conditions

## 29.080.01 Električna izolacija općenito

### Europska normizacija CENELEC

EN 60664-3:2017  
Insulation coordination for equipment within low-voltage  
systems – Part 3: Use of coating, potting or moulding for  
protection against pollution (IEC 60664-3:2016)



## 29.080.20 Provodni izolatori

### Europska normizacija CENELEC

EN 50180-3:2015/A1:2017  
Bushings above 1 kV up to 52 kV and from 250 A to 3,15 kA for liquid filled transformers – Part 3: Requirements for bushing fixations

### Međunarodna normizacija IEC

IEC 60137:2017  
Insulated bushings for alternating voltages above 1000 V

## 29.080.30 Izolacijski sustavi

### Europska normizacija CENELEC

EN 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 (IEC 60034-18-42:2017)

## 29.120.70 Sklopnici (releji)

### Međunarodna normizacija IEC

IEC 61810-1:2015/Cor1:2017  
Corrigendum 1 – Electromechanical elementary relays – Part 1: General and safety requirements

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

IEC/IEEE 62271-37-013:2015/Cor1:2017  
Corrigendum 1 – High-voltage switchgear and controlgear – Part 37-013: Alternating-current generator circuit-breakers

IEC 62271-100:2008/Amd2:2017  
Amendment 2 – High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers

IEC 62271-100:2008+Amd1:2012+Amd2:2017  
High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers

IEC TR 62271-305:2009/Cor1:2017  
Corrigendum 1 – High-voltage switchgear and controlgear – Part 305: Capacitive current switching capability of air-insulated – Disconnectors for rated voltages above 52 kV

## 29.140.10 Kape i držači svjetiljki

### Međunarodna normizacija IEC

IEC 60400:2017  
Lampholders for tubular fluorescent lamps and starterholders

## 29.140.99 Ostale norme koje se odnose na svjetiljke

### Europska normizacija CENELEC

EN 62717:2017  
LED modules for general lighting – Performance requirements (IEC 62717:2014, modified + A1:2015, modified)

EN 62931:2017  
GX16t-5 capped tubular led lamp – Safety specifications (IEC 62931:2017)

### Međunarodna normizacija IEC

IEC 63013:2017  
LED packages – Long-term luminous and radiant flux maintenance projection

## 29.160.01 Rotacijski strojevi općenito

### Europska normizacija CENELEC

EN 60034-12:2017  
Rotating electrical machines – Part 12: Starting performance of single-speed three-phase cage induction motors (IEC 60034-12:2016)

EN 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 (IEC 60034-18-42:2017)

## 29.160.30 Motori

### Europska normizacija CENELEC

EN 61800-9-1:2017  
Adjustable speed electrical power drive systems – Part 9-1: Ecodesign for power drive systems, motor starters, power electronics and their driven applications – General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA) and semi analytic model (SAM) (IEC 61800-9-1:2017)

EN 61800-9-2:2017  
Adjustable speed electrical power drive systems – Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications – Energy efficiency indicators for power drive systems and motor starters (IEC 61800-9-2:2017)

## 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

### Međunarodna normizacija IEC

IEC 60700-2:2016/Cor1:2017  
Corrigendum 1 – Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology

## 29.220.01 Galvanski članci i baterije općenito

### Međunarodna normizacija IEC

IEC 62680-1-2:2017  
Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification

## 29.220.10 Primarni članci i baterije

### Međunarodna normizacija IEC

IEC 62952-3:2017  
Power sources for a wireless communication device – Part 3: Generic energy harvesting adapter module

## 29.220.30 Alkalni sekundarni članci i baterije

### Europska normizacija CENELEC

EN 61951-2:2017  
Secondary cells and batteries containing alkaline or other non acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 2: Nickel-metal hydride (IEC 61951-2:2017)

## 29.240.20 Vodovi za prijenos i razdiobu električne energije

### Europska normizacija CENELEC

EN 50341-2-13:2017/A1:2017  
Overhead electrical lines exceeding AC 1 kV – Part 2-13: National Normative Aspects (NNA) for ITALY (based on EN 50341-1:2012)

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

### Međunarodna normizacija IEC

IEC 62827-2:2017  
Wireless power transfer – Management – Part 2: Multiple device control management

IEC 63028:2017  
Wireless power transfer – Airfuel alliance resonant baseline system specification (BSS)

IEC PAS 63095-2:2017  
The Qi wireless power transfer system – Power class 0 specification – Part 2: Reference Designs Version.1.1.2

## 29.260.99 Ostala električna oprema za rad u posebnim uvjetima

### Međunarodna normizacija IEC

IEC 61057:2017  
Live working – Insulating aerial devices for mounting on a chassis

## 31.020 Elektronički sastavni dijelovi općenito

### Europska normizacija CENELEC

EN 62321-7-2:2017  
Determination of certain substances in electrotechnical products – Part 7-2: Hexavalent chromium – Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method (IEC 62321-7-2:2017)

EN 62321-8:2017  
Determination of certain substances in electrotechnical products – Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py/TD-GC-MS) (IEC 62321-8:2017)

## 31.060.70 Energetski kondenzatori

### Međunarodna normizacija IEC

IEC 61921:2017  
Power capacitors – Low-voltage power factor correction banks

## 31.080.01 Poluvodičke naprave općenito

### Europska normizacija CENELEC

EN 60749-3:2017  
Semiconductor devices – Mechanical and climatic test methods – Part 3: External visual examination (IEC 60749-3:2017)

EN 60749-4:2017  
Semiconductor devices – Mechanical and climatic test methods – Part 4: Damp heat, steady state, highly accelerated stress test (HAST) (IEC 60034-18-42:2017)

EN 60749-6:2017  
Semiconductor devices – Mechanical and climatic test methods – Part 6: Storage at high temperature (IEC 60034-18-42:2017)

EN 60749-9:2017  
Semiconductor devices – Mechanical and climatic test methods – Part 9: Permanence of marking (IEC 60034-18-42:2017)

### Međunarodna normizacija IEC

IEC 60749-43:2017  
Semiconductor devices – Mechanical and climatic test methods – Part 43: Guidelines for IC reliability qualification plans

## 31.080.20 Tiristori

### Međunarodna normizacija IEC

IEC 60700-2:2016/Cor1:2017  
Corrigendum 1 – Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology

## 31.120 Elektronički uređaji za prikazivanje

### Međunarodna normizacija IEC

IEC 62908-12-10:2017  
Touch and interactive displays – Part 12-10: Measurement methods of touch displays – Touch and electrical performance

## 31.140 Piezoelektrične naprave

### Međunarodna normizacija IEC

IEC 62884-1:2017  
Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 1: Basic methods for the measurement

## 31.200 Integrirani krugovi. Mikroelektronika

### Europska normizacija CENELEC

EN 62433-3:2017  
EMC IC modelling – Part 3: Models of Integrated Circuits for EMI behavioural simulation – Radiated emissions modelling (ICEM- RE) (IEC 62433-3:2017)

### Međunarodna normizacija IEC

IEC 61967-4:2002/Cor1:2017  
Corrigendum 1 – Integrated circuits – Measurement of electromagnetic emissions, 150 kHz to 1 GHz – Part 4: Measurement of conducted emissions, 1 Ω/150 Ω direct coupling method

## 31.220.10 Utikačke i utičničke naprave. Konektori

### Europska normizacija CENELEC

EN 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 (IEC 61076-2-113:2017)

## Međunarodna normizacija IEC

IEC 60603-7-81:2015/Cor1:2017  
Corrigendum 1 – Connectors for electronic equipment – Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 MHz

### 33.040.40 Mreže za prijenos podataka

#### Međunarodna normizacija IEC

IEC 62657-1:2017  
Industrial communication networks – Wireless communication networks – Part 1: Wireless communication requirements and spectrum considerations

IEC 62952-3:2017  
Power sources for a wireless communication device – Part 3: Generic energy harvesting adapter module

### 33.050.01 Telekomunikacijska terminalna oprema općenito

#### Europska normizacija CENELEC

EN 62949:2017  
Particular safety requirements for equipment to be connected to information and communication networks (IEC 62949:2017)

### 33.060.20 Prijamna i odašiljačka oprema

#### Europska normizacija ETSI

ETSI EN 303 413 V1.1.1  
Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

### 33.060.40 Kabelski distribucijski sustavi

#### Međunarodna normizacija IEC

IEC 60728-12:2017  
Cable networks for television signals, sound signals and interactive services – Part 12: Electromagnetic compatibility of systems

### 33.070.01 Usluge pokretne mreže općenito

#### Međunarodna normizacija IEC

IEC/IEEE 62704-2:2017  
Determining the peak spatial-average specific absorption rate (SAR) in the human body from wireless communications devices, 30 MHz to 6 GHz – Part 2: Specific requirements for finite difference time domain (FDTD) modelling of exposure from vehicle mounted antennas

### 33.100.01 Elektromagnetska kompatibilnost općenito

#### Europska normizacija CENELEC

EN 55016-1-4:2010/A2:2017  
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/A2:2017)

## Međunarodna normizacija IEC

IEC 60728-12:2017  
Cable networks for television signals, sound signals and interactive services – Part 12: Electromagnetic compatibility of systems

### 33.100.10 Zračenje

#### Međunarodna normizacija IEC

IEC 61000-2-2:2002/Amd1:2017  
Amendment 1 – Electromagnetic compatibility (EMC) – Part 2-2: Environment – Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems

IEC 61000-2-2:2002+Amd1:2017  
Electromagnetic compatibility (EMC) – Part 2-2: Environment – Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems

### 33.100.20 Otpornost

#### Europska normizacija CENELEC

EN 61000-4-39:2017  
Electromagnetic Compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test (IEC 61000-4-39:2017)

### 33.120.01 Sastavni dijelovi i pribor općenito

#### Međunarodna normizacija IEC

IEC 62680-1-2:2017  
Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification

### 33.120.30 RF konektori

#### Europska normizacija CENELEC

EN 61169-11:2017  
Radio-frequency connectors – Part 11: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 9,5 mm with threaded coupling – Characteristic impedance 50 Ω (type 4,1-9,5) (IEC 61169-11:2017)

### 33.160.25 Televizijski prijamnici

#### Europska normizacija CENELEC

EN 62944:2017  
Audio, video and multimedia systems and equipment – Digital television accessibility – Functional specifications (IEC 62944:2016)

### 33.160.30 Audiosustavi

#### Međunarodna normizacija IEC

IEC 63035:2017  
MIDI (musical instrument digital interface) specification 1.0 (Abridged Edition, 2015)

### 33.160.60 Multimedijски sustavi i telekonferencijska oprema

Europska normizacija  
CENELEC

EN 62943:2017  
Visible light beacon system for multimedia applications  
(IEC 62943:2017)

Međunarodna normizacija  
IEC

IEC/TR 63094:2017  
Multimedia systems and equipment – Multimedia signal transmission – Dependable line code with error correction

### 33.160.99 Ostala audiooprema, videooprema i audiovizualna oprema

Međunarodna normizacija  
IEC

IEC 62827-2:2017  
Wireless power transfer – Management – Part 2: Multiple device control management

IEC 63028:2017  
Wireless power transfer – Airfuel alliance resonant baseline system specification (BSS)

IEC PAS 63095-2:2017  
The Qi wireless power transfer system – Power class 0 specification – Part 2: Reference Designs Version.1.1.2

### 33.180.10 Svjetlovodna vlakna i kabeli

Međunarodna normizacija  
IEC

IEC 60794-2:2017  
Optical fibre cables – Part 2: Indoor cables – Sectional specification

### 33.180.20 Svjetlovodni vezne naprave

Europska normizacija  
CENELEC

EN 61300-2-55:2017  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-55: Tests – Strength of mounted adaptor (IEC 61300-2-55:2017)

### 33.180.30 Optička pojačala

Europska normizacija  
CENELEC

EN 61291-5-2:2017  
Optical amplifiers – Part 5-2: Qualification specifications – Reliability qualification for optical fibre amplifiers (IEC 61291-5-2:2017)

### 33.200 Daljinsko upravljanje. Daljinsko mjerenje

Europska normizacija  
CENELEC

EN 62056-7-3:2017  
Electricity metering data exchange – The DLMS/COSEM suite – Part 7-3: Wired and wireless M-Bus communication profiles for local and neighbourhood networks (IEC 62056-7-3:2017)

### 35.020 Informacijska tehnologija (IT) općenito

Međunarodna normizacija  
ISO/IEC

ISO/IEC 20000-6:2017  
Information technology – Service management – Part 6: Requirements for bodies providing audit and certification of service management systems

### 35.030 Informatička sigurnost

Međunarodna normizacija  
ISO

ISO/IEC 29134:2017  
Information technology – Security techniques – Guidelines for privacy impact assessment

### 35.040.01 Kodiranje informacija općenito

Međunarodna normizacija  
IEC

IEC 63035:2017  
MIDI (musical instrument digital interface) specification 1.0 (Abridged Edition, 2015)

### 35.040.30 Kodiranje grafičkih i fotografskih informacija

Međunarodna normizacija  
ISO/IEC

ISO/IEC 18477-7:2017  
Information technology – Scalable compression and coding of continuous-tone still images – Part 7: HDR Floating-Point Coding

### 35.080 Softver (programska podrška)

Međunarodna normizacija  
ISO/IEC

ISO/IEC/IEEE 15289:2017  
Systems and software engineering – Content of life-cycle information items (documentation)

ISO/IEC 20741:2017  
Systems and software engineering – Guideline for the evaluation and selection of software engineering tools

### 35.100.01 Međupovezivanje otvorenih sustava općenito

Međunarodna normizacija  
IEC

IEC 62827-2:2017  
Wireless power transfer – Management – Part 2: Multiple device control management

### 35.100.70 Sloj primjene

Europska normizacija  
CENELEC

EN 62056-7-3:2017  
Electricity metering data exchange – The DLMS/COSEM suite – Part 7-3: Wired and wireless M-Bus communication profiles for local and neighbourhood networks (IEC 62056-7-3:2017)



## 35.110 Umrežavanje

### Međunarodna normizacija IEC

- IEC/TR 62453-51-20:2017  
Field device tool (FDT) interface specification – Part 51-20:  
Communication implementation for common object model  
– IEC 61784 CPF 2
- IEC/TR 62453-51-31:2017  
Field device tool (FDT) interface specification – Part 51-31:  
Communication implementation for common object model  
– IEC 61784 CP 3/1 and CP 3/2
- IEC/TR 62453-51-32:2017  
Field device tool (FDT) interface specification – Part 51-32:  
Communication implementation for common object model  
– IEC 61784 CP 3/4, CP 3/5 and CP 3/6
- IEC/TR 62453-51-60:2017  
Field device tool (FDT) interface specification – Part 51-60:  
Communication implementation for common object model  
– IEC 61784 CPF 6
- IEC/TR 62453-51-90:2017  
Field device tool (FDT) interface specification – Part 51-90:  
Communication implementation for common object model  
– IEC 61784 CPF 9
- IEC/TR 62453-51-150:2017  
Field device tool (FDT) interface specification – Part 51-150:  
Communication implementation for common object model  
– IEC 61784 CPF 15
- IEC/TR 63094:2017  
Multimedia systems and equipment – Multimedia signal  
transmission – Dependable line code with error correction

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija ISO

- ISO/IEC 29341-1-2:2017  
Information technology – UPnP Device Architecture – Part 1-2:  
UPnP Device Architecture Version 2.0
- ISO/IEC 29341-30-1:2017  
Information technology – UPnP Device Architecture – Part 30-1:  
IoT management and control device control protocol – IoT  
management and control architecture overview
- ISO/IEC 29341-30-2:2017  
Information technology – UPnP Device Architecture – Part 30-2:  
IoT management and control device control protocol – IoT  
management and control device
- ISO/IEC 29341-30-10:2017  
Information technology – UPnP Device Architecture – Part 30-10:  
IoT management and control device control protocol – Data  
store service
- ISO/IEC 29341-30-11:2017  
Information technology – UPnP Device Architecture – Part 30-11:  
IoT management and control device control protocol – IoT  
management and control data model service
- ISO/IEC 29341-30-12:2017  
Information technology – UPnP Device Architecture – Part 30-12:  
IoT management and control device control protocol – IoT  
management and control transport generic service

### IEC

- ISO/IEC 29341-1-2:2017  
Information technology – UPnP Device Architecture – Part 1-2:  
UPnP Device Architecture Version 2.0
- ISO/IEC 29341-30-1:2017  
Information technology – UPnP Device Architecture  
– Part 30-1: IoT management and control device control  
protocol – IoT management and control architecture overview
- ISO/IEC 29341-30-2:2017  
Information technology – UPnP Device Architecture – Part 30-2:  
IoT management and control device control protocol – IoT  
management and control device

ISO/IEC 29341-30-10:2017  
Information technology – UPnP Device Architecture  
– Part 30-10: IoT management and control device control  
protocol – Data store service

ISO/IEC 29341-30-11:2017  
Information technology – UPnP Device Architecture  
– Part 30-11: IoT management and control device control  
protocol – IoT management and control data model service

ISO/IEC 29341-30-12:2017  
Information technology – UPnP Device Architecture  
– Part 30-12: IoT management and control device control  
protocol – IoT management and control transport generic  
service

IEC 62680-1-2 :2017  
Universal serial bus interfaces for data and power – Part 1-2:  
Common components – USB Power Delivery specification

IEC 63028:2017  
Wireless power transfer – Airfuel alliance resonant baseline  
system specification (BSS)

IEC 63035:2017  
MIDI (musical instrument digital interface) specification 1.0  
(Abridged Edition, 2015)

IEC PAS 63095-2:2017  
The Qi wireless power transfer system – Power class 0  
specification – Part 2: Reference Designs Version.1.1.2

## 35.240.20 Primjene IT-a u uredskom poslovanju

### Europska normizacija CEN

EN 16931-1:2017  
Electronic invoicing – Part 1: Semantic data model of the core  
elements of an electronic invoice

## 35.240.50 Primjene IT-a u industriji

### Europska normizacija CENELEC

EN 62325-451-1:2017  
Framework for energy market communications – Part 451-1:  
Acknowledgement business process and contextual model  
for CIM European market (IEC 62325-451-1:2017)

### Međunarodna normizacija IEC

IEC 61987-24-2:2017  
Industrial-process measurement and control – Data structures  
and elements in process equipment catalogues – Part 24-2:  
Lists of properties (LOPs) of valve/actuator accessories for  
electronic data exchange

IEC 61987-24-3:2017  
Industrial-process measurement and control – Data structures  
and elements in process equipment catalogues – Part 24-3:  
Lists of properties (LOPs) of flow modification accessories for  
electronic data exchange

IEC 62657-1:2017  
Industrial communication networks – Wireless communication  
networks – Part 1: Wireless communication requirements and  
spectrum considerations

## 35.240.60 Primjene IT-a u prijevozu i trgovini

### Međunarodna normizacija ISO

ISO 12813:2015/Amd 1:2017  
Electronic fee collection – Compliance check communication  
for autonomous systems; Amendment 1

ISO 13111-1:2017  
Intelligent transport systems (ITS) – The use of personal ITS  
station to support ITS service provision for travellers – Part 1:  
General information and use case definitions

ISO 13141:2015/Amd 1:2017  
Electronic fee collection – Localisation augmentation communication for autonomous systems; Amendment 1

ISO 15638-10:2017  
Intelligent transport systems – Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) – Part 10: Emergency messaging system/eCall

ISO 15638-18:2017  
Intelligent transport systems – Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) – Part 18: ADR (Dangerous Goods)

ISO 17361:2017  
Intelligent transport systems – Lane departure warning systems – Performance requirements and test procedures

### **35.240.63 IT aplikacije za trgovinu**

#### **Europska normizacija CEN**

EN 16931-1:2017  
Electronic invoicing – Part 1: Semantic data model of the core elements of an electronic invoice

EN 62325-451-1:2017  
Framework for energy market communications – Part 451-1: Acknowledgement business process and contextual model for CIM European market (IEC 62325-451-1:2017)

### **35.240.67 IT aplikacije za građevinarstvo**

#### **Međunarodna normizacija ISO**

ISO 16484-5:2017  
Building automation and control systems (BACS) – Part 5: Data communication protocol

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

#### **Međunarodna normizacija ISO**

ISO/TR 18638:2017  
Health informatics – Guidance on health information privacy education in healthcare organizations

ISO/TR 80002-2:2017  
Medical device software – Part 2: Validation of software for medical device quality systems

### **35.240.99 Primjene IT-a u ostalim područjima**

#### **Europska normizacija CENELEC**

EN 62056-7-3:2017  
Electricity metering data exchange – The DLMS/COSEM suite – Part 7-3: Wired and wireless M-Bus communication profiles for local and neighbourhood networks (IEC 62056-7-3:2017)

### **37.020 Optička oprema**

#### **Međunarodna normizacija ISO**

ISO 8255-1:2017  
Microscopes – Cover glasses – Part 1: Dimensional tolerances, thickness and optical properties

### **37.080 Primjene u preslikavanju dokumenata**

#### **Međunarodna normizacija ISO**

ISO 22938:2017  
Document management – Electronic content/document management (CDM) data interchange format

### **43.040.20 Uređaji za osvjetljivanje, svjetlosnu signalizaciju i upozoravanje**

#### **Europska normizacija CENELEC**

EN 60810:2015/A1:2017  
Lamps for road vehicles – Performance requirements (IEC 60810:2014/A1:2017)

### **43.120 Električna cestovna vozila**

#### **Međunarodna normizacija IEC**

IEC 61851-21-1:2017  
Electric vehicle conductive charging system – Part 21-1: Electric vehicle on-board charger EMC requirements for conductive connection to an AC/DC supply

### **45.020 Željeznička tehnika općenito**

#### **Europska normizacija CEN**

EN 16587:2017  
Railway applications – Design for PRM Use – Requirements on obstacle free routes for infrastructure

### **47.020.60 Električna oprema brodova i pomorskih konstrukcija**

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

ISO/IEC/IEEE 80005-2:2016  
Utility connections in port – Part 2: High and low voltage shore connection systems – Data communication for monitoring and control

### **47.040 Morska plovila**

#### **Međunarodna normizacija ISO**

ISO 20438:2017  
Ships and marine technology – Offshore mooring chains

### **49.060 Zrakoplovna električna oprema i sustavi**

#### **Europska normizacija CEN**

EN 2997-001:2017  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 001: Technical specification

#### **Međunarodna normizacija ISO**

ISO 2635 AMD 1:2017  
Aircraft – Conductors for general purpose aircraft electrical cables and aerospace applications – Dimensions and characteristics – Amendment 1: Correction of table 1

## 49.140 Svemirski sustavi i operacije

### Međunarodna normizacija ISO

- ISO 17770:2017  
Space systems – Cube satellites (CubeSats)
- ISO 19923:2017  
Space environment (natural and artificial) – Plasma environments for generation of worst case electrical potential differences for spacecraft

## 59.080.40 Naslojeni plošni tekstil

### Međunarodna normizacija ISO

- ISO 36:2017  
Rubber, vulcanized or thermoplastic – Determination of adhesion to textile fabrics

## 65.040.20 Zgrade i instalacije za obradu i čuvanje poljoprivrednih proizvoda

### Europska normizacija CEN

- EN 1993-4-1:2007/A1:2017  
Eurocode 3 – Design of steel structures – Part 4-1: Silos

## 71.100.20 Plinovi za industrijsku primjenu

### Međunarodna normizacija ISO

- ISO 13338:2017  
Gas cylinders – Gases and gas mixtures – Determination of tissue corrosiveness for the selection of cylinder valve outlets

## 71.100.70 Kozmetika. Toaletne potrepštine

### Međunarodna normizacija ISO

- ISO 18415:2017  
Cosmetics – Microbiology – Detection of specified and non-specified microorganisms
- ISO/TR 18818:2017  
Cosmetics – Analytical method – Detection and quantitative determination of Diethanolamine (DEA) by GC/MS
- ISO 21148:2017  
Cosmetics – Microbiology – General instructions for microbiological examination
- ISO 21149:2017  
Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria

## 73.060.99 Ostale rude crnih metala

### Međunarodna normizacija ISO

- ISO 11790:2017  
Copper, lead, zinc and nickel concentrates – Guidelines for the inspection of mechanical sampling systems
- ISO 11794:2017  
Copper, lead, zinc and nickel concentrates – Sampling of slurries

## 73.120 Oprema za obradu ruda

### Europska normizacija CEN

- EN 15163:2017  
Machines and installations for the exploitation and processing of natural stone – Safety – Requirements for diamond wire saws

## 75.160.10 Kruta goriva

### Europska normizacija CEN

- EN 1860-1:2013+A1:2017  
Appliances, solid fuels and firelighters for barbecuing – Part 1: Barbecues burning solid fuels – Requirements and test methods

## 75.160.30 Plinovita goriva

### Europska normizacija CEN

- EN 16723-2:2017  
Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network – Part 2: Automotive fuels specification

## 75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom

### Međunarodna normizacija ISO

- ISO 21809-5:2017  
Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 5: External concrete coatings

## 77.040.10 Mehaničko ispitivanje metala

### Međunarodna normizacija ISO

- ISO 377:2017  
Steel and steel products – Location and preparation of samples and test pieces for mechanical testing
- ISO 1099:2017  
Metallic materials – Fatigue testing – Axial force-controlled method
- ISO 24213:2017  
Metallic materials – Sheet and strip – Method for springback evaluation in stretch bending

## 77.080.01 Metali na bazi željeza općenito

### Međunarodna normizacija ISO

- ISO 14404-3:2017  
Calculation method of carbon dioxide emission intensity from iron and steel production – Part 3: Steel plant with electric arc furnace (EAF) and coal-based or gas-based direct reduction iron (DRI) facility

## 77.140.65 Čelična žica, čelična užad i lanci

### Međunarodna normizacija ISO

- ISO 2408:2017  
Steel wire ropes – Requirements

## 77.150.40 Proizvodi od nikla i kroma

### Međunarodna normizacija ISO

ISO 9725:2017  
Nickel and nickel alloy forgings

## 83.040.01 Sirovine za gumu i plastiku općenito

### Međunarodna normizacija ISO

ISO 20299-2:2017  
Film for wrapping rubber bales – Part 2: Natural rubber

## 83.040.10 Lateks i sirova guma

### Međunarodna normizacija ISO

ISO 1795:2017  
Rubber, raw natural and raw synthetic – Sampling and further preparative procedures

## 83.040.20 Sastojci gume

### Međunarodna normizacija ISO

ISO 6472:2017  
Rubber compounding ingredients – Abbreviated terms

## 83.060 Guma

### Međunarodna normizacija ISO

ISO 36:2017  
Rubber, vulcanized or thermoplastic – Determination of adhesion to textile fabrics

ISO 2878:2017  
Rubber, vulcanized or thermoplastic – Antistatic and conductive products – Determination of electrical resistance

ISO 4662:2017  
Rubber, vulcanized or thermoplastic – Determination of rebound resilience

ISO 5600:2017  
Rubber – Determination of adhesion to rigid materials using conical shaped parts

## 83.080.01 Plastika općenito

### Međunarodna normizacija ISO

ISO 22007-4:2017  
Plastics – Determination of thermal conductivity and thermal diffusivity – Part 4: Laser flash method

## 83.080.10 Duromerni materijali

### Međunarodna normizacija ISO

ISO 15064:2017  
Plastics – Aromatic isocyanates for use in the production of polyurethanes – Determination of the isomer ratio in toluenediisocyanate (TDI)

## 83.140.40 Crijeva

### Međunarodna normizacija ISO

ISO 6605:2017  
Hydraulic fluid power – Test methods for hoses and hose assemblies

ISO 6806:2017  
Rubber hoses and hose assemblies for use in oil burners – Specification

## 85.060 Papir i karton

### Međunarodna normizacija ISO

ISO 11093-8:2017  
Paper and board – Testing of cores – Part 8: Determination of natural frequency and flexural modulus by experimental modal analysis

## 87.040 Boje i lakovi

### Međunarodna normizacija ISO

ISO 3668:2017  
Paints and varnishes – Visual comparison of colour of paints

ISO 19403-1:2017  
Paints and varnishes – Wettability – Part 1: Terminology and general principles

ISO 19403-2:2017  
Paints and varnishes – Wettability – Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle

ISO 19403-3:2017  
Paints and varnishes – Wettability – Part 3: Determination of the surface tension of liquids using the pendant drop method

ISO 19403-4:2017  
Paints and varnishes – Wettability – Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension

ISO 19403-5:2017  
Paints and varnishes – Wettability – Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy

ISO 19403-6:2017  
Paints and varnishes – Wettability – Part 6: Measurement of dynamic contact angle

ISO 19403-7:2017  
Paints and varnishes – Wettability – Part 7: Measurement of the contact angle on a tilt stage (roll-off angle)

## 91.010.30 Tehnički aspekti

### Europska normizacija CEN

EN 1993-4-1:2007/A1:2017  
Eurocode 3 – Design of steel structures – Part 4-1: Silos

EN 1993-4-2:2007/A1:2017  
Eurocode 3 – Design of steel structures – Part 4-2: Tanks

## 91.040.01 Građevine općenito

### Međunarodna normizacija ISO

ISO 16484-5:2017  
Building automation and control systems (BACS) – Part 5: Data communication protocol



## 91.060.01 Elementi građevina općenito

### Međunarodna normizacija ISO

- ISO 6946:2017  
Building components and building elements – Thermal resistance and thermal transmittance – Calculation methods
- ISO 13786:2017  
Thermal performance of building components – Dynamic thermal characteristics – Calculation methods

## 91.060.50 Vrata i prozori

### Međunarodna normizacija ISO

- ISO 3008-2:2017  
Fire-resistance tests – Part 2: Lift landing door assemblies
- ISO 10077-1:2017  
Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General
- ISO 10077-2:2017  
Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames

## 91.060.99 Ostali elementi građevina

### Europska normizacija CEN

- EN 1364-5:2017  
Fire resistance tests for non-loadbearing elements – Part 5: Air transfer grilles

## 91.080.13 Čelične konstrukcije

### Europska normizacija CEN

- EN 1993-4-1:2007/A1:2017  
Eurocode 3 – Design of steel structures – Part 4-1: Silos
- EN 1993-4-2:2007/A1:2017  
Eurocode 3 – Design of steel structures – Part 4-2: Tanks

## 91.080.20 Drvene konstrukcije

### Međunarodna normizacija ISO

- ISO 8375:2017  
Timber structures – Glued laminated timber – Test methods for determination of physical and mechanical properties

## 91.100.01 Građevni materijali općenito

### Europska normizacija CEN

- CEN/TR 17105:2017  
Construction products – Assessment of release of dangerous substances – Guidance on the use of ecotoxicity tests applied to construction products

## 91.100.10 Cement. Gips. Vapno. Mort

### Europska normizacija CEN

- EN 15824:2017  
Specifications for external renders and internal plasters based on organic binders

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

- EN 16757:2017  
Sustainability of construction works – Environmental product declarations – Product Category Rules for concrete and concrete elements

## 91.100.40 Proizvodi od vlaknima ojačanog cementa

### Međunarodna normizacija ISO

- ISO 8336:2017  
Fibre-cement flat sheets – Product specification and test methods

## 91.100.50 Veziva. Materijali za brtvljenje

### Međunarodna normizacija ISO

- ISO 10563:2017  
Buildings and civil engineering works – Sealants – Determination of change in mass and volume

## 91.120.10 Toplinska izolacija

### Europska normizacija CEN

- CEN/TR 16798-4:2017  
Energy performance of buildings – Ventilation for buildings – Part 4: Interpretation of the requirements in EN 16798-3 – For non-residential buildings – Performance requirements for ventilation and room-conditioning systems (Modules M5-1, M5-4)
- CEN/TR 16798-6:2017  
Energy performance of buildings – Ventilation for buildings – Part 6: Interpretation of the requirements in EN 16798-5-1 and EN 16798-5-2 – Calculation methods for energy requirements of ventilation and air conditioning systems (Modules M5-6, M5-8, M6-5, M6-8, M7-5, M7-8)
- EN 16798-7:2017  
Energy performance of buildings – Ventilation for buildings – Part 7: Calculation methods for the determination of air flow rates in buildings including infiltration (Modules M5-5)
- CEN/TR 16798-8:2017  
Energy performance of buildings – Ventilation for buildings – Part 8: Interpretation of the requirements in EN 16798-7 – Calculation methods for the determination of air flow rates in buildings including infiltration – (Module M5-5)
- EN 16798-9:2017  
Energy performance of buildings – Ventilation for buildings – Part 9: Calculation methods for energy requirements of cooling systems (Modules M4-1, M4-4, M4-9) – General
- CEN/TR 16798-10:2017  
Energy performance of buildings – Ventilation for buildings – Part 10: Interpretation of the requirements in EN 16798-9 – Calculation methods for energy requirements of cooling systems (Module M4-1, M4-4, M4-9) – General
- EN 16798-13:2017  
Energy performance of buildings – Ventilation for buildings – Part 13: Calculation of cooling systems (Module M4-8) – Generation
- CEN/TR 16798-14:2017  
Energy performance of buildings – Ventilation for buildings – Part 14: Interpretation of the requirements in EN 16798-13 – Calculation of cooling systems (Module M4-8) – Generation
- EN 16798-15:2017  
Energy performance of buildings – Ventilation for buildings – Part 15: Calculation of cooling systems (Module M4-7) – Storage

- CEN/TR 16798-16:2017  
Energy performance of buildings – Ventilation for buildings – Part 16: Interpretation of the requirements in EN 16798-15 – Calculation of cooling systems (Module M4-7) – Storage
- EN 16798-17:2017  
Energy performance of buildings – Ventilation for buildings – Part 17: Guidelines for inspection of ventilation and air conditioning systems (Module M4-11, M5-11, M6-11, M7-11)
- CEN/TR 16798-18:2017  
Energy performance of buildings – Ventilation for buildings – Part 18: Interpretation of the requirements in EN 16798-17 – Guidelines for inspection of ventilation and air-conditioning systems (Modules M4-11, M5-11, M6-11, M7-11)

## Međunarodna normizacija ISO

- ISO 6946:2017  
Building components and building elements – Thermal resistance and thermal transmittance – Calculation methods
- ISO 10077-1:2017  
Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General
- ISO 10077-2:2017  
Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames
- ISO 10211:2017  
Thermal bridges in building construction – Heat flows and surface temperatures – Detailed calculations
- ISO 12631:2017  
Thermal performance of curtain walling – Calculation of thermal transmittance
- ISO 13370:2017  
Thermal performance of buildings – Heat transfer via the ground – Calculation methods
- ISO 13786:2017  
Thermal performance of building components – Dynamic thermal characteristics – Calculation methods
- ISO 13789:2017  
Thermal performance of buildings – Transmission and ventilation heat transfer coefficients – Calculation method
- ISO 14683:2017  
Thermal bridges in building construction – Linear thermal transmittance – Simplified methods and default values
- ISO 17772-1:2017  
Energy performance of buildings – Indoor environmental quality – Part 1: Indoor environmental input parameters for the design and assessment of energy performance of buildings
- ISO 52000-1:2017  
Energy performance of buildings – Overarching EPB assessment – Part 1: General framework and procedures
- ISO/TR 52000-2:2017  
Energy performance of buildings – Overarching EPB assessment – Part 2: Explanation and justification of ISO 52000-1
- ISO 52003-1:2017  
Energy performance of buildings – Indicators, requirements, ratings and certificates – Part 1: General aspects and application to the overall energy performance
- ISO/TR 52003-2:2017  
Energy performance of buildings – Indicators, requirements, ratings and certificates – Part 2: Explanation and justification of ISO 52003-1
- ISO 52010-1:2017  
Energy performance of buildings – External climatic conditions – Part 1: Conversion of climatic data for energy calculations
- ISO/TR 52010-2:2017  
Energy performance of buildings – External climatic conditions – Part 2: Explanation and justification of ISO 52010-1

- ISO 52016-1:2017  
Energy performance of buildings – Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads – Part 1: Calculation procedures
- ISO/TR 52016-2:2017  
Energy performance of buildings – Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads – Part 2: Explanation and justification of ISO 52016-1 and ISO 52017-1
- ISO 52017-1:2017  
Energy performance of buildings – Sensible and latent heat loads and internal temperatures – Part 1: Generic calculation procedures
- ISO 52018-1:2017  
Energy performance of buildings – Indicators for partial EPB requirements related to thermal energy balance and fabric features – Part 1: Overview of options
- ISO/TR 52018-2:2017  
Energy performance of buildings – Indicators for partial EPB requirements related to thermal energy balance and fabric features – Part 2: Explanation and justification of ISO 52018-1
- ISO/TR 52019-2:2017  
Energy performance of buildings – Hygrothermal performance of building components and building elements – Part 2: Explanation and justification
- ISO 52022-1:2017  
Energy performance of buildings – Thermal, solar and daylight properties of building components and elements – Part 1: Simplified calculation method of the solar and daylight characteristics for solar protection devices combined with glazing
- ISO/TR 52022-2:2017  
Energy performance of buildings – Thermal, solar and daylight properties of building components and elements – Part 2: Explanation and justification
- ISO 52022-3:2017  
Energy performance of buildings – Thermal, solar and daylight properties of building components and elements – Part 3: Detailed calculation method of the solar and daylight characteristics for solar protection devices combined with glazing

## 91.120.40 Zaštita od groma

### Europska normizacija CENELEC

- EN 62561-1:2017  
Lightning Protection System Components (LPSC) – Part 1: Requirements for connection components (IEC 62561-1:2017)

### Međunarodna normizacija IEC

- IEC 62561-3:2017  
Lightning protection system components (LPSC) – Part 3: Requirements for isolating spark gaps (ISG)

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Europska normizacija CEN

- EN 13141-3:2017  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 3: Range hoods for residential use without fan
- CEN/TR 16798-4:2017  
Energy performance of buildings – Ventilation for buildings – Part 4: Interpretation of the requirements in EN 16798-3 – For non-residential buildings – Performance requirements for ventilation and room-conditioning systems (Modules M5-1, M5-4)

CEN/TR 16798-6:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 6: Interpretation of the requirements in EN 16798-5-1  
and EN 16798-5-2 – Calculation methods for energy  
requirements of ventilation and air conditioning systems  
(Modules M5-6, M5-8, M 6-5, M6-8, M7-5, M7-8)

EN 16798-7:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 7: Calculation methods for the determination of air flow  
rates in buildings including infiltration (Modules M5-5)

CEN/TR 16798-8:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 8: Interpretation of the requirements in EN 16798-7  
– Calculation methods for the determination of air flow rates  
in buildings including infiltration – (Module M5-5)

EN 16798-9:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 9: Calculation methods for energy requirements of  
cooling systems (Modules M4-1, M4-4, M4-9) – General

CEN/TR 16798-10:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 10: Interpretation of the requirements in EN 16798-9  
– Calculation methods for energy requirements of cooling  
systems (Module M4-1, M4-4, M4-9) – General

EN 16798-13:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 13: Calculation of cooling systems (Module M4-8)  
– Generation

CEN/TR 16798-14:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 14: Interpretation of the requirements in EN 16798-13  
– Calculation of cooling systems (Module M4-8) – Generation

EN 16798-15:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 15: Calculation of cooling systems (Module M4-7)  
– Storage

CEN/TR 16798-16:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 16: Interpretation of the requirements in EN 16798-15  
– Calculation of cooling systems (Module M4-7) – Storage

EN 16798-17:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 17: Guidelines for inspection of ventilation and air  
conditioning systems (Module M4-11, M5-11, M6-11, M7-11)

CEN/TR 16798-18:2017  
Energy performance of buildings – Ventilation for buildings  
– Part 18: Interpretation of the requirements in EN 16798-17  
– Guidelines for inspection of ventilation and air-conditioning  
systems (Modules M4-11, M5-11, M6-11, M7-11)

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

EN 62056-7-3:2017  
Electricity metering data exchange – The DLMS/COSEM suite  
– Part 7-3: Wired and wireless M-Bus communication profiles  
for local and neighbourhood networks (IEC 62056-7-3:2017)

### Međunarodna normizacija IEC

IEC 60364-7-721:2017  
Low-voltage electrical installations – Part 7-721: Requirements  
for special installations or locations – Electrical installations in  
caravans and motor caravans

## 91.140.80 Odvodni sustavi

### Međunarodna normizacija ISO

ISO 16611:2017  
Plastics piping systems for drainage and sewerage without  
pressure – Non-circular pipes and joints made of glass-  
reinforced thermosetting plastics (GRP) based on unsaturated  
polyester resins (UP) – Dimensions, requirements and tests

## 91.220 Građevinska oprema

### Međunarodna normizacija ISO

ISO 19720-1:2017  
Building construction machinery and equipment – Plants for  
the preparation of concrete and mortar – Part 1: Terminology  
and commercial specifications

## 93.030 Vanjski kanalizacijski sustavi

### Međunarodna normizacija ISO

ISO 16611:2017  
Plastics piping systems for drainage and sewerage without  
pressure – Non-circular pipes and joints made of glass-  
reinforced thermosetting plastics (GRP) based on unsaturated  
polyester resins (UP) – Dimensions, requirements and tests

## 93.080.20 Materijali za gradnju cesta

### Europska normizacija CEN

EN 12697-18:2017  
Bituminous mixtures – Test methods – Part 18: Binder  
drainage

## 97.040.10 Kućanski namještaj

### Međunarodna normizacija IEC

IEC 60335-2-64:2002/AMD2:2017  
Amendment 2 – Household and similar electrical appliances  
– Safety – Part 2-64: Particular requirements for commercial  
electric kitchen machines

IEC 60335-2-64:2002+A1:2007+A2:2017  
Household and similar electrical appliances – Safety  
– Part 2-64: Particular requirements for commercial electric  
kitchen machines

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Europska normizacija CEN

EN 1860-1:2013+A1:2017  
Appliances, solid fuels and firelighters for barbecuing  
– Part 1: Barbecues burning solid fuels – Requirements and  
test methods

EN 13141-3:2017  
Ventilation for buildings – Performance testing of components/  
products for residential ventilation – Part 3: Range hoods for  
residential use without fan

### Međunarodna normizacija IEC

IEC 60335-2-50:2002/Amd2:2017  
Amendment 2 – Household and similar electrical appliances  
– Safety – Part 2-50: Particular requirements for commercial  
electric bains-marie

IEC 60335-2-50:2002+A1:2007+A2:2017  
Household and similar electrical appliances – Safety  
– Part 2-50: Particular requirements for commercial electric  
bains-marie

IEC 60335-2-99:2003/Amd1:2017  
Amendment 1 – Household and similar electrical appliances  
– Safety – Part 2-99: Particular requirements for commercial  
electric hoods

IEC 60335-299:2003+A1:2017  
Household and similar electrical appliances – Safety  
– Part 2-99: Particular requirements for commercial electric  
hoods

## **97.060 Praonički uređaji**

### **Međunarodna normizacija**

#### **IEC**

IEC/PAS 63124:2017  
Tumble dryers for commercial use – Methods for measuring  
the performance

IEC/PAS 63125:2017  
Clothes washing machines for commercial use – Methods for  
measuring the performance

## **97.150 Netekstilni podni prekrivači**

### **Međunarodna normizacija**

#### **ISO**

ISO 10833:2017  
Textile floor coverings – Determination of resistance to damage  
at cut edges using the modified Vettermann drum test

ISO 11378-2:2001/Amd 1:2017  
Textile floor coverings – Laboratory soiling tests – Part 2:  
Drum test; Amendment 1

## **97.220.10 Sportski objekti**

### **Međunarodna normizacija**

#### **ISO**

ISO 19202-1:2017  
Summer toboggan runs – Part 1: Safety requirements and  
test methods

ISO 19202-2:2017  
Summer toboggan runs – Part 2: Safety requirements for  
operation