

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

3/2019 ožujak, 2019.

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

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 1 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 6, *Papir, karton i pulpe*

HRN EN 17163:2019 en pr  
Pulpa, papir i karton – Određivanje primarnih aromatskih amina (PAA) u vodenom ekstraktu LCM/MS metodom (EN 17163:2019)  
Pulp, paper and board – Determination of primary aromatic amines (PAA) in a water extract by a LC/MS/MS method (EN 17163:2019)

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

HRN EN ISO 18243:2019 en pr  
Mopedi i motocikli na električni pogon – Specifikacije ispitivanja i sigurnosni zahtjevi za sustave litij-ionskih baterija (ISO 18243:2017; EN ISO 18243:2019)  
Electrically propelled mopeds and motorcycles – Test specifications and safety requirements for lithium-ion battery systems (ISO 18243:2017; EN ISO 18243:2019)

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

HRN ISO 5721-1:2019 en pr  
Poljoprivredni traktori – Zahtjevi, procedure ispitivanja i kriteriji prihvatljivosti za vidno polje rukovatelja – 1. dio: Vidno polje prema naprijed (ISO 5721-1:2013)  
Agricultural tractors – Requirements, test procedures and acceptance criteria for the operator's field of vision – Part 1: Field of vision to the front (ISO 5721-1:2013)

HRN ISO 5721-2:2019 en pr  
Poljoprivredni traktori – Zahtjevi, procedure ispitivanja i kriteriji prihvatljivosti za vidno polje rukovatelja – 2. dio: Vidno polje sa strane i straga (ISO 5721-2:2014)  
Agricultural tractors – Requirements, test procedures and acceptance criteria for the operator's field of vision – Part 2: Field of vision to the side and to the rear (ISO 5721-2:2014)

HRN EN ISO 10517:2019 en pr  
Ručne motorne škare za živicu – Sigurnost (ISO 10517:2019; EN ISO 10517:2019)  
Powered hand-held hedge trimmers – Safety (ISO 10517:2019; EN ISO 10517:2019)

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

HRN EN 14214:2019 en pr  
Tekući naftni proizvodi – Metilni esteri masnih kiselina (FAME) za dizelske motore i grijanje – Zahtjevi i metode ispitivanja (EN 14214:2012+A2:2019)  
Liquid petroleum products – Fatty acid methyl esters (FAME) for use in diesel engines and heating applications – Requirements and test methods (EN 14214:2012+A2:2019)

HRN EN 17181:2019 en pr  
Maziva – Određivanje aerobne biološke degradacije potpuno formuliranih maziva u vodenoj otopini – Metoda ispitivanja bazirana na proizvodnji CO<sub>2</sub> (EN 17181:2019)  
Lubricants – Determination of aerobic biological degradation of fully formulated lubricants in an aqueous solution – Test method based on CO<sub>2</sub>-production (EN 17181:2019)

### HZN/TO 43, *Akustika*

HRN EN ISO 17201-3:2019 en pr  
Akustika – Buka streljana – 3. dio: Računanje širenja zvuka (ISO 17201-3:2019; EN ISO 17201-3:2019)  
Acoustics – Noise from shooting ranges – Part 3: Sound propagation calculations (ISO 17201-3:2019; EN ISO 17201-3:2019)

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

HRN EN ISO 5178:2019 en pr  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Uzdužno vlačno ispitivanje metala zavara zavarenih spojeva nastalih taljenjem (ISO 5178:2019; EN ISO 5178:2019)  
Destructive tests on welds in metallic materials – Longitudinal tensile test on weld metal in fusion welded joints (ISO 5178:2019; EN ISO 5178:2019)

HRN EN ISO 13588:2019 en pr  
Nerazorno ispitivanje zavara – Ultrazvučno ispitivanje – Upotreba automatske višepretvorničke tehnologije (ISO 13588:2019; EN ISO 13588:2019)  
Non-destructive testing of welds – Ultrasonic testing – Use of automated phased array technology (ISO 13588:2019; EN ISO 13588:2019)

### HZN/TO 71, *Beton*

HRN EN 934-6:2019 en pr  
Dodaci betonu, mortu i mortu za injektiranje – 6. dio: Uzorkovanje, ocjenjivanje i provjera stalnosti svojstava (EN 934-6:2019)  
Admixtures for concrete, mortar and grout – Part 6: Sampling, assessment and verification of the constancy of performance (EN 934-6:2019)

### HZN/TO 120, *Koža i obuća*

HRN EN ISO 20150:2019 en pr  
Obuća i dijelovi obuće – Kvantitativna metoda ispitivanja za ocjenjivanje protugljivičnog djelovanja (ISO 20150:2019; EN ISO 20150:2019)  
Footwear and footwear components – Quantitative challenge test method to assess antifungal activity (ISO 20150:2019; EN ISO 20150:2019)

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

HRN EN ISO 7027-2:2019 en pr  
Kvaliteta vode – Određivanje mutnoće – 2. dio: Polukvantitativne metode za procjenu prozirnosti voda (ISO 7027-2:2019; EN ISO 7027-2:2019)  
Water quality – Determination of turbidity – Part 2: Semi-quantitative methods for the assessment of transparency of waters (ISO 7027-2:2019; EN ISO 7027-2:2019)

HRN EN 17136:2019 en pr  
Kvaliteta vode – Upute za terenske i laboratorijske postupke za kvantitativnu analizu i identifikaciju makrobescraljeznjaka u površinskim kopnenim vodama (EN 17136:2019)  
Water quality – Guidance on field and laboratory procedures for quantitative analysis and identification of macroinvertebrates from inland surface waters (EN 17136:2019)

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

HRN EN ISO 17892-11:2019 en pr  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 11. dio: Ispitivanja propusnosti (ISO 17892-11:2019; EN ISO 17892-11:2019)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 11: Permeability tests (ISO 17892-11:2019; EN ISO 17892-11:2019)

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

HRN ISO 19104:2019 en pr  
Geoinformacije – Pojmovnik (ISO 19104:2016)  
Geographic information – Terminology (ISO 19104:2016)

HRI ISO/TR 19120:2019 en pr  
Geoinformacije – Funkcionalne norme (ISO/TR 19120:2001)  
Geographic information – Functional standards (ISO/TR 19120:2001)

HRI ISO/TR 19121:2019 en pr  
Geoinformacije – Slikovni i rasterski podaci (ISO/TR 19121:2000)  
Geographic information – Imagery and gridded data (ISO/TR 19121:2000)

HRI ISO/TR 19122:2019 en pr  
Geoinformacije/Geomatika – Osposobljenost i certificiranje osoblja (ISO/TR 19122:2004)  
Geographic information/Geomatics – Qualification and certification of personnel (ISO/TR 19122:2004)

HRS ISO/TS 19129:2019 en pr  
Geoinformacije – Okvir za slikovne, rasterske i podatke o pokrivenosti (ISO/TS 19129:2009)  
Geographic information – Imagery, gridded and coverage data framework (ISO/TS 19129:2009)

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

HRN EN ISO 15630-1:2019 en pr  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 1. dio: Armaturene šipke, vučene žice i žica (ISO 15630-1:2019; EN ISO 15630-1:2019)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 1: Reinforcing bars, rods and wire (ISO 15630-1:2019; EN ISO 15630-1:2019)

HRN EN ISO 15630-2:2019 en pr  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 2. dio: Zavarene mreže i rešetkasti nosači (ISO 15630-2:2019; EN ISO 15630-2:2019)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 2: Welded fabric and lattice girders (ISO 15630-2:2019; EN ISO 15630-2:2019)

HRN EN ISO 15630-3:2019 en pr  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 3. dio: Čelik za prednapinjanje (ISO 15630-3:2019; EN ISO 15630-3:2019)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 3: Prestressing steel (ISO 15630-3:2019; EN ISO 15630-3:2019)

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

HRN EN ISO 16812:2019 en pr  
Industrija nafte i prirodnog plina – Izmjenjivači topline s cijevnim snopom u plaštu (ISO 16812:2019; EN ISO 16812:2019)  
Petroleum, petrochemical and natural gas industries – Shell-and-tube heat exchangers (ISO 16812:2019; EN ISO 16812:2019)

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

HRN EN 14702-3:2019 en pr  
Karakterizacija muljeva – Svojstva slijeganja – 3. dio: Određivanje brzine zone slijeganja (EN 14702-3:2019)  
Characterisation of sludges – Settling properties – Part 3: Determination of zone settling velocity (ZSV) (EN 14702-3:2019)

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

HRN EN 16157-2:2019 en pr  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 2. dio: Referenciranje lokacija (EN 16157-2:2019)  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 2: Location referencing (EN 16157-2:2019)

HRS CEN/TS 17249-4:2019 en pr  
Inteligentni transportni sustavi – Elektronička sigurnost – 4. dio: Elektronički hitni poziv iz vozila za UNECE kategorije T, R, S poljoprivrednih/šumarskih vozila (CEN/TS 17249-4:2019)  
Intelligent transport systems – eSafety – Part 4: eCall for UNECE Category T, R, S agricultural/forestry vehicles (CEN/TS 17249-4:2019)

HRN EN ISO 17262:2012/A1:2019 en pr  
Inteligentni transportni sustavi – Automatska identifikacija vozila i opreme – Brojčano označavanje i struktura podataka (ISO 17262:2012/Amd 1:2019; EN ISO 17262:2012/A1:2019)  
Intelligent transport systems – Automatic vehicle and equipment identification – Numbering and data structures (ISO 17262:2012/Amd 1:2019; EN ISO 17262:2012/A1:2019)

HRN EN ISO 24534-4:2011/A1:2019 en pr  
Automatska identifikacija vozila i opreme – Identifikacija elektroničke registracije (ERI) vozila – 4. dio: Sigurna komunikacija korištenjem asimetričnih tehnika (ISO 24534-4:2010/Amd 1:2019; EN ISO 24534-4:2010/A1:2019)  
Automatic vehicle and equipment identification – Electronic registration identification (ERI) for vehicles – Part 4: Secure communications using asymmetrical techniques (ISO 24534-4:2010/Amd 1:2019; EN ISO 24534-4:2010/A1:2019)

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

HRN EN 14535-1:2019 en pr  
Željeznički sustav – Kočni diskovi za željeznička vozila – 1. dio: Kočni diskovi, napršani ili toplo navučeni na osovine ili vratila, dimenzije i zahtjevi za kvalitetu (EN 14535-1:2019)  
Railway applications – Brake discs for railway rolling stock – Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements (EN 14535-1:2019)

HRN EN 14535-2:2019 en pr  
Željeznički sustav – Kočni diskovi za željeznička vozila – 2. dio: Kočni diskovi, postavljeni na kotače, dimenzije i zahtjevi za kvalitetu (EN 14535-2:2019)  
Railway applications – Brake discs for railway rolling stock – Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements (EN 14535-2:2019)

HRN EN 17018:2019 en,fr,de pr  
Željeznički sustav – Održavanje željezničkih vozila – Nazivi i definicije (EN 17018:2019)  
Railway applications – Rolling Stock Maintenance – Terms and definitions (EN 17018:2019)

HRN EN 17095:2019 en pr  
Željeznički sustav – Održavanje željezničkih vozila – Zapisi o održavanju (EN 17095:2019)  
Railway applications – Rolling stock maintenance – Maintenance records (EN 17095:2019)

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

HRN EN ISO 3451-1:2019 en pr  
Plastika – Određivanje pepela – 1. dio: Opće metode (ISO 3451-1:2019; EN ISO 3451-1:2019)  
Plastics – Determination of ash – Part 1: General methods (ISO 3451-1:2019; EN ISO 3451-1:2019)

HRN EN 14728:2019 en pr  
Nedostaci plastomernih zavara – Razredba (EN 14728:2019)  
Imperfections in thermoplastic welds – Classification (EN 14728:2019)

HRN EN ISO 21301-1:2019 en pr  
Plastika – Etilen/vinil acetatni (E/VAC) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove specifikacije (ISO 21301-1:2019; EN ISO 21301-1:2019)  
Plastics – Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21301-1:2019; EN ISO 21301-1:2019)

HRN EN ISO 21301-2:2019 en pr  
Plastika – Polibuten-1 (PB-1) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 21301-2:2019; EN ISO 21301-2:2019)  
Plastics – Polybutene-1 (PB-1) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 21301-2:2019; EN ISO 21301-2:2019)

HRN EN ISO 21305-1:2019 en pr  
Plastika – Polikarbonatni (PC) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 21305-1:2019; EN ISO 21305-1:2019)  
Plastics – Polycarbonate (PC) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21305-1:2019; EN ISO 21305-1:2019)

HRN EN ISO 21305-2:2019 en pr  
Plastika – Polikarbonatni (PC) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 21305-2:2019; EN ISO 21305-2:2019)  
Plastics – Polycarbonate (PC) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 21305-2:2019; EN ISO 21305-2:2019)

## HZN/TO 533, Kolničke konstrukcije

HRN EN 12697-31:2019 en pr  
Bitumenske mješavine – Metode ispitivanja – 31. dio: Priprema uzorka kružnim zbijračem (EN 12697-31:2019)  
Bituminous mixtures – Test methods – Part 31: Specimen preparation by gyratory compactor (EN 12697-31:2019)

HRN EN 12697-32:2019 en pr  
Bitumenske mješavine – Metode ispitivanja – 32. dio: Priprema asfaltnog uzorka vibracijskim zbijračem (EN 12697-32:2019)  
Bituminous mixtures – Test methods – Part 32: Specimen preparation by vibratory compactor (EN 12697-32:2019)

HRN EN 12697-33:2019 en pr  
Bitumenske mješavine – Metode ispitivanja – 33. dio: Priprema asfaltnog uzorka valjkastim zbijračem (EN 12697-33:2019)  
Bituminous mixtures – Test methods – Part 33: Specimen prepared by roller compactor (EN 12697-33:2019)

HRN EN 12697-44:2019 en pr  
Bitumenske mješavine – Metode ispitivanja – 44. dio: Razvoj pukotine ispitivanjem polucilindričnog uzorka na savijanje (EN 12697-44:2019)  
Bituminous mixtures – Test methods – Part 44: Crack propagation by semi-circular bending test (EN 12697-44:2019)

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

HRN EN 14134:2019 en pr  
Ventilacija u zgradama – Ispitivanje značajka i provjera instalacije za stambene ventilacijske sustave (EN 14134:2019)  
Ventilation for buildings – Performance testing and installation checks of residential ventilation systems (EN 14134:2019)

HRN EN ISO 14414:2019 en pr  
Energijska procjena pumpnih sustava (ISO/ASME 14414:2019; EN ISO 14414:2019)  
Pump system energy assessment (ISO/ASME 14414:2019; EN ISO 14414:2019)

## HZN/TO 544, Strojni elementi

HRN ISO 3547-1:2019 en pr  
Klizni ležajevi – Čahure sa zazorom – 1. dio: Dimenzije (ISO 3547-1:2018)  
Plain bearings – Wrapped bushes – Part 1: Dimensions (ISO 3547-1:2018)

HRN ISO 4379:2019 en pr  
Klizni ležajevi – Bakrene čahure bez proreza (ISO 4379:2018)  
Plain bearings – Copper alloy bushes (ISO 4379:2018)

HRN ISO 4386-3:2019 en pr  
Klizni ležajevi – Klizni ležajevi iz višeslojnih metala – 3. dio: Ispitivanje bez razaranja s penetrantima (ISO 4386-3:2018)  
Plain bearings – Metallic multilayer plain bearings – Part 3: Non-destructive penetrant testing (ISO 4386-3:2018)

HRN ISO 6280:2019 en pr  
Klizni ležajevi – Zahtjevi i smjernice za materijal podloge debelih višeslojnih ležajeva (ISO 6280:2018)  
Plain bearings – Requirements and guidance on backings for thick-walled multilayer bearings (ISO 6280:2018)

HRN ISO 6282:2019 en pr  
Klizni ležajevi – Metalni tankostijeni poluležajevi – Određivanje graničnog naprezanja Sigma 0,01\* (ISO 6282:2018)  
Plain bearings – Metallic thin-walled half bearings – Determination of the sigma 0,01\*-limit (ISO 6282:2018)

HRN ISO 6525:2019 en pr  
Klizni ležajevi – Prstenasta odzivna ploča izrađena iz trake – Dimenzije i tolerancije (ISO 6525:2018)  
Plain bearings – Ring type thrust washers made from strip – Dimensions and tolerances (ISO 6525:2018)

HRN ISO 16589-1:2013/A1:2019 en pr  
Brtve za vratila s brtvenim rubom s ugrađenim plastomernim brtvenim elementima – 1. dio: Nazivne dimenzije i tolerancije (ISO 16589-1:2011/Amd 1:2018)  
Rotary shaft lip-type seals incorporating thermoplastic sealing elements – Part 1: Nominal dimensions and tolerances (ISO 16589-1:2011/Amd 1:2018)

## HZN/TO 553, Predgotovljeni proizvodi

HRN EN 17160:2019 en pr  
Pravila za kategorizaciju proizvoda za keramičke pločice (EN 17160:2019)  
Product category rules for ceramic tiles (EN 17160:2019)

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

HRN EN IEC 60376:2019 en pr  
Specifikacija sumpornog heksafluorida tehničkog stupnja čistoće i komplementarnih plinova s kojima će se u smjesi koristiti za uporabu u električnoj opremi (IEC 60376:2018; EN IEC 60376:2018)  
Specification of technical grade sulphur hexafluoride (SF6) and complementary gases to be used in its mixtures for use in electrical equipment (IEC 60376:2018; EN IEC 60376:2018)

## HZN/TO E11, Nadzemni vodovi

HRN EN 50341-2-24:2019 en pr  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-24: Nacionalni normativni aspekti (NNA) za Rumunjsku (na temelju EN 50341-1:2012) (EN 50341-2-24:2019)  
Overhead electrical lines exceeding AC 1 kV – Part 2-24: National Normative Aspects (NNA) for Romania (based on EN 50341-1:2012) (EN 50341-2-24:2019)

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

HRN EN IEC 62056-8-4:2019 en pr  
Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM – Dio 8-4: Komunikacijski profili za uskopojasne OFDM PLC PRIME susjedne mreže (IEC 62056-8-4:2018; EN IEC 62056-8-4:2019)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 8-4: Communication profiles for narrow-band OFDM PLC PRIME neighbourhood networks (IEC 62056-8-4:2018; EN IEC 62056-8-4:2019)

## HZN/TO E23, Električni instalacijski pribor

HRN EN 61058-1-1:2016/Ispr.1:2019 en pr  
Sklopke za aparate – Dio 1-1: Zahtjevi za mehaničke sklopke (EN 61058-1-1:2016/AC:2019)  
Switches for appliances – Part 1-1: Requirements for mechanical switches (EN 61058-1-1:2016/AC:2019)

HRN EN 61058-1-2:2016/Ispr.1:2019 en pr  
Sklopke za aparate – Dio 1-2: Zahtjevi za elektroničke sklopke (EN 61058-1-2:2016/AC:2019)  
Switches for appliances – Part 1-2: Requirements for electronic switches (EN 61058-1-2:2016/AC:2019)

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

HRN EN 60662:2012/A11:2019 en pr  
Visokotlačne natrijeve žarulje – Izvedbeni zahtjevi (EN 60662:2012/A11:2019)  
High-pressure sodium vapour lamps – Performance specifications (EN 60662:2012/A11:2019)

HRN EN 62560:2012/A11:2019 en pr  
Svjetleće diode za opću rasvjetnu namjenu s vlastitom predspojnom napravom za napone veće od 50 V – Sigurnosni zahtjevi (EN 62560:2012/A11:2019)  
Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications (EN 62560:2012/A11:2019)

## HZN/TO E44, Elektrotehnička sigurnost strojeva

HRN EN IEC 61496-3:2019 en pr  
Sigurnost strojeva – Elektroosjetljiva zaštitna oprema – 3. dio: Posebni zahtjevi za aktivne optoelektroničke zaštitne naprave osjetljive na difuznu refleksiju (IEC 61496-3:2018; EN IEC 61496-3:2019)  
Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR) (IEC 61496-3:2018; EN IEC 61496-3:2019)

## HZN/TO E45, Nuklearna instrumentacija

- HRN IEC 60462:2019 en pr  
Nuklearna instrumentacija – Fotomultiplikatorske cijevi za scintilacijske brojače – Ispitni postupci (IEC 60462:2010)  
Nuclear instrumentation – Photomultiplier tubes for scintillation counting – Test procedures (IEC 60462:2010)
- HRN IEC 60737:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Senzori temperature (u jezgri i primarnom krugu za hlađenje) – Karakteristike i metode ispitivanja (IEC 60737:2010)  
Nuclear power plants – Instrumentation important to safety – Temperature sensors (in-core and primary coolant circuit) – Characteristics and test methods (IEC 60737:2010)
- HRN IEC 60768:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Oprema za neprekidno in-line ili on-line praćenje radioaktivnosti u procesnom toku za redovite i izvanredne uvjete (IEC 60768:2009)  
Nuclear power plants – Instrumentation important to safety – Equipment for continuous in-line or on-line monitoring of radioactivity in process streams for normal and incident conditions (IEC 60768:2009)
- HRN IEC 60951-1:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 1. dio: Opći zahtjevi (IEC 60951-1:2009)  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 1: General requirements (IEC 60951-1:2009)
- HRN IEC 60951-2:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 2. dio: Oprema za neprekidno izvanmrežno praćenje radioaktivnosti otpadnih plinova i zraka iz ventilacije (IEC 60951-2:2009)  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 2: Equipment for continuous off-line monitoring of radioactivity in gaseous effluents and ventilation air (IEC 60951-2:2009)
- HRN IEC 60951-3:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 3. dio: Oprema za neprekidno praćenje velikog opsega gama zračenja (IEC 60951-3:2009)  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 3: Equipment for continuous high range area gamma monitoring (IEC 60951-3:2009)
- HRN IEC 60951-4:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Praćenje radioaktivnosti u akcidentalnim i postakcidentalnim uvjetima – 4. dio: Oprema za neprekidno in-line ili on-line praćenje radioaktivnosti u procesnom toku (IEC 60951-4:2009)  
Nuclear power plants – Instrumentation important to safety – Radiation monitoring for accident and post-accident conditions – Part 4: Equipment for continuous in-line or on-line monitoring of radioactivity in process streams (IEC 60951-4:2009)
- HRN IEC 60988:2019 en pr  
Nuklearne elektrane – Instrumentacija važna za sigurnost – Zvučni sustav za praćenje detekcije izgubljenih dijelova: karakteristike, kriteriji za izvedbu i radni postupci (IEC 60988:2009)  
Nuclear power plants – Instrumentation important to safety – Acoustic monitoring systems for detection of loose parts: characteristics, design criteria and operational procedures (IEC 60988:2009)
- HRN IEC 61504:2019 en pr  
Nuklearna postrojenja – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Središnji sustavi za neprekidno praćenje zračenja i/ili razine radioaktivnosti (IEC 61504:2017)  
Nuclear facilities – Instrumentation and control systems important to safety – Centralized systems for continuous monitoring of radiation and/or levels of radioactivity (IEC 61504:2017)
- HRN IEC 61559-1:2019 en pr  
Instrumentacija u zaštiti od zračenja u nuklearnim postrojenjima – Središnji sustavi za kontinuirano praćenje zračenja i/ili razine radioaktivnosti – 1. dio: Opći zahtjevi (IEC 61559-1:2009)  
Radiation protection instrumentation in nuclear facilities – Centralized systems for continuous monitoring of radiation and/or levels of radioactivity – Part 1: General requirements (IEC 61559-1:2009)
- HRN IEC 62003:2019 en pr  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Zahtjevi za testiranje elektromagnetske kompatibilnosti (IEC 62003:2009)  
Nuclear power plants – Instrumentation and control important to safety – Requirements for electromagnetic compatibility testing (IEC 62003:2009)
- HRN IEC 62302:2019 en pr  
Instrumentacija u zaštiti od zračenja – Oprema za uzorkovanje i praćenje radioaktivnosti plemenitih plinova (IEC 62302:2007)  
Radiation protection instrumentation – Equipment for sampling and monitoring radioactive noble gases (IEC 62302:2007)
- HRN IEC 62397:2019 en pr  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Termootpornički detektori (IEC 62397:2007)  
Nuclear power plants – Instrumentation and control important to safety – Resistance temperature detectors (IEC 62397:2007)
- HRN IEC 62438:2019 en pr  
Instrumentacija u zaštiti od zračenja – Mobilna instrumentacija za mjerenja fotonskog i neutronske zračenja u okolišu (IEC 62438:2010)  
Radiation protection instrumentation – Mobile instrumentation for the measurement of photon and neutron radiation in the environment (IEC 62438:2010)
- HRN IEC 62463:2019 en pr  
Instrumentacija u zaštiti od zračenja – Rendgenski sustavi za provjeru osoba zbog sigurnosnih razloga i nošenja nedopuštenog materijala (IEC 62463:2010)  
Radiation protection instrumentation – X-ray systems for the screening of persons for security and the carrying of illicit items (IEC 62463:2010)
- HRN IEC 62465:2019 en pr  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Upravljanje starenjem sustava električnih vodova (IEC 62465:2010)  
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of electrical cabling systems (IEC 62465:2010)
- HRN IEC 62484:2019 en pr  
Instrumentacija u zaštiti od zračenja – Spektroskopski prijenosni uređaji za detekciju i identifikaciju radioaktivnog materijala u nedopuštenom prometu (IEC 62484:2010)  
Radiation protection instrumentation – Spectroscopy-based portal monitors used for the detection and identification of illicit trafficking of radioactive material (IEC 62484:2010)
- HRN IEC 62523:2019 en pr  
Instrumentacija u zaštiti od zračenja – Sustav za radiografski pregled tereta/vozila (IEC 62523:2010)  
Radiation protection instrumentation – Cargo/vehicle radiographic inspection system (IEC 62523:2010)

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

- HRN EN IEC 61850-8-2:2019 en pr  
Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – Dio 8-2: Pridjeljivanje specifičnih komunikacijskih usluga (SCSM) – Pridjeljivanje u XMPP protokol (IEC 61850-8-2:2018; EN IEC 61850-8-2:2019)  
Communication networks and systems for power utility automation – Part 8-2: Specific communication service mapping (SCSM) – Mapping to Extensible Messaging Presence Protocol (XMPP) (IEC 61850-8-2:2018; EN IEC 61850-8-2:2019)

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

HRN EN 50637:2019 en pr  
Medicinski električni uređaji – Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke medicinskih kreveta za djecu (EN 50637:2017)  
Medical electrical equipment – Particular requirements for the basic safety and essential performance of medical beds for children (EN 50637:2017)

HRN EN IEC 62464-1:2019 en pr  
Uređaji za dobivanje medicinskih slika pomoću magnetske rezonancije – 1. dio: Određivanje osnovnih parametara kakvoće slike (IEC 62464-1:2018; EN IEC 62464-1:2019)  
Magnetic resonance equipment for medical imaging – Part 1: Determination of essential image quality parameters (IEC 62464-1:2018; EN IEC 62464-1:2019)

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

HRN HD 60364-7-721:2019 en pr  
Niskonaponske električne instalacije – Dio 7-721: Zahtjevi za posebne instalacije ili prostore – Električne instalacije u stambenim autoprikolicama i motornim stambenim autoprikolicama (IEC 60364-7-721:2017; HD 60364-7-721:2019)  
Low-voltage electrical installations – Part 7-721: Requirements for special installations or locations – Electrical installations in caravans and motor caravans (IEC 60364-7-721:2017; HD 60364-7-721:2019)

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

HRN EN IEC 60746-4:2019 en pr  
Izražavanje djelovanja elektrokemijskih analizatora – 4. dio: Otopljeni kisik u vodi mjerem membranskim amperometrijskim senzorima (IEC 60746-4:2018; EN IEC 60746-4:2019)  
Expression of performance of electrochemical analyzers – Part 4: Dissolved oxygen in water measured by membrane-covered amperometric sensors (IEC 60746-4:2018; EN IEC 60746-4:2019)

## **HZN/TO E70, Stupnjevi zaštite kućištem**

HRN EN 60529:2000/A2:2014/Ispr.1:2019 en pr  
Stupnjevi zaštite osigurani kućištima (IP Code) (IEC 60529:1989/am2:2013/Corr.1:2019; EN 60529:1991/A2:2013/AC:2019)  
Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989/am2:2013/Corr.1:2019; EN 60529:1991/A2:2013/AC:2019)

## **HZN/TO E72, Naprave za automatsko upravljanje u kućanstvu**

HRN EN IEC 60730-2-14:2019 en pr  
Električne naprave za automatsko upravljanje – Dio 2-14: Posebni zahtjevi za električne izvršne članove (aktuatora) (IEC 60730-2-14:2017; EN IEC 60730-2-14:2019)  
Automatic electrical controls – Part 2-14: Particular requirements for electric actuators (IEC 60730-2-14:2017; EN IEC 60730-2-14:2019)

HRN EN IEC 60730-2-9:2019 en pr  
Električne naprave za automatsko upravljanje – Dio 2-9: Posebni zahtjevi za električne regulatore temperature (IEC 60730-2-9:2015; EN IEC 60730-2-9:2019)  
Automatic electrical controls – Part 2-9: Particular requirements for temperature sensing controls (IEC 60730-2-9:2015; EN IEC 60730-2-9:2019)

HRN EN IEC 60730-2-9:2019/A1:2019 en pr  
Električne naprave za automatsko upravljanje – Dio 2-9: Posebni zahtjevi za električne regulatore temperature (IEC 60730-2-9:2015/am1:2018; EN IEC 60730-2-9:2019/A1:2019)  
Automatic electrical controls – Part 2-9: Particular requirements for temperature sensing controls (IEC 60730-2-9:2015/am1:2018; EN IEC 60730-2-9:2019/A1:2019)

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

HRN EN IEC 60900:2018/Ispr.1:2019 en pr  
Rad pod naponom – Ručni alati za rad pod naponom do 1 000 V izmjenično i 1 500 V istosmjerno (IEC 60900:2018/Corr.1:2019; EN IEC 60900:2018/AC:2019)  
Live working – Hand tools for use up to 1 000 V AC and 1 500 V DC (IEC 60900:2018/Corr.1:2019; EN IEC 60900:2018/AC:2019)

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

HRN EN IEC 63135:2019 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustavi automatske identifikacije (AIS) – SAR zrakoplovna oprema – Operativni i izvedbeni zahtjevi, metode ispitivanja i traženi rezultati ispitivanja (IEC 63135:2018; EN IEC 63135:2019)  
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – SAR Airborne equipment – Operational and performance requirements, methods of test and required test results (IEC 63135:2018; EN IEC 63135:2019)

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

HRN EN IEC 62087-7:2019 en pr  
Audio, video i pripadajuća oprema – Metode mjerenja potrošnje energije – 7. dio: Računalni monitori (IEC 62087-7:2018; EN IEC 62087-7:2019)  
Audio, video and related equipment – Methods of measurement for power consumption – Part 7: Computer Monitors (IEC 62087-7:2018; EN IEC 62087-7:2019)

HRN EN IEC 63033-2:2019 en pr  
Multimedijski sustavi i oprema u vozilima – Sustav za nadzor vožnje – 2. dio: Metode snimanja sustava za nadzor vožnje (IEC 63033-2:2018; EN IEC 63033-2:2019)  
Car multimedia systems and equipment – Drive monitoring system – Part 2: Recording methods of the drive monitoring system (IEC 63033-2:2018; EN IEC 63033-2:2019)

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

HRN EN 50664:2019 en pr  
Norma srodnih područja za dokazivanje sukladnosti opreme koju upotrebljavaju radnici, s ograničenjima izloženosti elektromagnetskim poljima (0 Hz - 300 GHz), pri puštanju u rad ili u radnoj okolini (EN 50664:2017)  
Generic standard to demonstrate the compliance of equipment used by workers with limits on exposure to electromagnetic fields (0 Hz - 300 GHz), when put into service or in situ (EN 50664:2017)

HRN EN 50665:2019 en pr  
Norma srodnih područja za procjenu elektroničke i električne opreme u odnosu na ograničenja izloženosti ljudi elektromagnetskim poljima (0 Hz - 300 GHz) (EN 50665:2017)  
Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) (EN 50665:2017)

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

HRN EN 55016-4-2:2012/A2:2018/Ispr.1:2019 en pr  
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 4-2: Nesigurnosti, statistike i modeliranje dopuštenih vrijednosti – Nesigurnost mjerne opreme (CISPR 16-4-2:2011/am2:2018/Corr.1:2019; EN 55016-4-2:2011/A2:2018/AC:2019)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Measurement instrumentation uncertainty (CISPR 16-4-2:2011/am2:2018/Corr.1:2019; EN 55016-4-2:2011/A2:2018/AC:2019)

HRN EN IEC 61000-3-2:2019 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 3-2: Granice – Granice za harmoničke strujne emisije (za ulazne struje uređaja ≤ 16 A po fazi) (IEC 61000-3-2:2018; EN IEC 61000-3-2:2019)  
Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018; EN IEC 61000-3-2:2019)

HRN EN IEC 61000-6-1:2019 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 6-1: Norme srodnih područja – Otpornost za stambena, poslovna i lakoindustrijska okruženja (IEC 61000-6-1:2016; EN IEC 61000-6-1:2019)  
Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016; EN IEC 61000-6-1:2019)

HRN EN IEC 61000-6-2:2019 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 6-2: Norme srodnih područja – Otpornost za industrijska okruženja (IEC 61000-6-2:2016; EN IEC 61000-6-2:2019)  
Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments (IEC 61000-6-2:2016; EN IEC 61000-6-2:2019)

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

HRN EN 50600-4-2:2017/A1:2019 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-2: Učinkovitost korištenja energije (EN 50600-4-2:2016/A1:2019)  
Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness (EN 50600-4-2:2016/A1:2019)

HRN EN 50600-4-3:2017/A1:2019 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-3: Udio obnovljive energije (EN 50600-4-3:2016/A1:2019)  
Information technology – Data centre facilities and infrastructures – Part 4-3: Renewable Energy Factor (EN 50600-4-3:2016/A1:2019)

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

HRN EN 300 132-1 V2.1.1:2019 en pr  
Tehnologija za zaštitu okoliša (EE) – Sučelje za izvore napajanja na ulazu opreme informacijsko-komunikacijske tehnologije (ICT) – 1. dio: Izmjenična struja (AC) (EN 300 132-1 V2.1.1:2019)  
Environmental Engineering (EE) – Power supply interface at the input to Information and Communication Technology (ICT) equipment – Part 1: Alternating Current (AC) (EN 300 132-1 V2.1.1:2019)

#### **HZN/TO Z1, Informacijska tehnologija**

HRN ISO/IEC 9798-3:2019 en pr  
Sigurnosne tehnike IT-a – Autentifikacija subjekta – 3. dio: Mehanizmi korištenja tehnika digitalnog potpisa (ISO/IEC 9798-3:2019)  
IT Security techniques – Entity authentication – Part 3: Mechanisms using digital signature techniques (ISO/IEC 9798-3:2019)

HRN ISO/IEC 10118-3:2019 en pr  
Sigurnosne tehnike IT-a – Hash-funkcije – 3. dio: Namjenske hash-funkcije (ISO/IEC 10118-3:2018)  
IT Security techniques – Hash-functions – Part 3: Dedicated hash-functions (ISO/IEC 10118-3:2018)

HRN ISO/IEC 14888-3:2019 en pr  
Sigurnosne tehnike IT-a – Digitalni potpis s dopunom – 3. dio: Mehanizmi koji se temelje na diskretnom logaritmu (ISO/IEC 14888-3:2018)  
IT Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms (ISO/IEC 14888-3:2018)

HRN EN 17071:2019 en pr  
Informacijska tehnologija – Tehnike automatske identifikacije i prikupljanja podataka – Elektroničko označavanje (EN 17071:2019)  
Information technology – Automatic identification and data capture techniques – Electronic identification plate (EN 17071:2019)

HRN EN 419241-2:2019 en pr  
Vjerodostojni sustavi za potporu potpisivanja na poslužitelju – 2. dio: Profil zaštite za kvalificirano sredstvo za izradu elektroničkog potpisa (QSCD) za potpisivanje na poslužitelju (EN 419241-2:2019)  
Trustworthy Systems Supporting Server Signing – Part 2: Protection profile for QSCD for Server Signing (EN 419241-2:2019)

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

HRN EN 131-6:2019 en pr  
Ljestve – 6. dio: Teleskopske ljestve (EN 131-6:2019)  
Ladders – Part 6: Telescopic ladders (EN 131-6:2019)

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

HRN EN 13200-1:2019 en pr  
Gledališta – 1. dio: Opće značajke prostora za gledatelje (EN 13200-1:2019)  
Spectator facilities – Part 1: General characteristics for spectator viewing area (EN 13200-1:2019)

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

HRN EN ISO 18363-2:2019 en pr  
Animal and vegetable fats and oils – Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS – Part 2: Method using slow alkaline transesterification and measurement for 2-MCPD, 3-MCPD and glycidol (ISO 18363-2:2018; EN ISO 18363-2:2018)

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

HRN EN ISO 20238:2019 en pr  
Transportne trake – Ispitivanje trenja na bubnjevima (ISO 20238:2018; EN ISO 20238:2019)  
Conveyor belts – Drum friction testing (ISO 20238:2018; EN ISO 20238:2019)

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

HRN EN 14243-1:2019 en pr  
Materials obtained from end of life tyres – Part 1: General definitions related to the methods for determining their dimension(s) and impurities (EN 14243-1:2019)

HRN EN 14243-2:2019 en pr  
Materials obtained from end of life tyres – Part 2: Granulates and powders – Methods for determining the particle size distribution and impurities, including free steel and free textile content (EN 14243-2:2019)

HRN EN 14243-3:2019 en pr  
Materials obtained from end of life tyres – Part 3: Shreds, cuts and chips – Methods for determining their dimension(s) including protruding filaments dimensions (EN 14243-3:2019)

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

HRN EN ISO 7886-4:2019 en pr  
Sterilne šprice za potkožnu injekciju za jednokratnu upotrebu – 4. dio: Šprice s funkcijom sprečavanja ponovne upotrebe (ISO 7886-4:2018; EN ISO 7886-4:2019)  
Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature (ISO 7886-4:2018; EN ISO 7886-4:2019)

HRN EN ISO 15747:2019 en pr  
Plastični spremnici za intravenske injekcije (ISO 15747:2018; EN ISO 15747:2019)  
Plastic containers for intravenous injections (ISO 15747:2018; EN ISO 15747:2019)

HRN EN ISO 23500-5:2019 en pr  
Priprema i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 5. dio: Kvaliteta tekućine za hemodijalizu i srodne terapije (ISO 23500-5:2019; EN ISO 23500-5:2019)  
Preparation and quality management of fluids for haemodialysis and related therapies – Part 5: Quality of dialysis fluid for haemodialysis and related therapies (ISO 23500-5:2019; EN ISO 23500-5:2019)

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

HRN EN 2288:2019 en pr  
Zrakoplovstvo – Čahure s prirubnicom izrađene od čelika otpornog na koroziju sa samopodmazujućom oblogom – Dimenzije i opterećenja (EN 2288:2019)  
Aerospace series – Bush, flanged, corrosion resisting steel, with self-lubricating liner – Dimensions and loads (EN 2288:2019)

HRN EN 2584:2019 en pr  
Zrakoplovstvo – Ležajevi, kuglasti klizni izrađeni od čelika otpornog na koroziju sa samopodmazujućom oblogom – Uske serije – Za povećana opterećenja pri temperaturi okoline – Dimenzije i opterećenja (EN 2584:2019)  
Aerospace series – Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Narrow series – Elevated load at ambient temperature – Dimensions and loads (EN 2584:2019)



HRN EN 2585:2019 en pr  
Zrakoplovstvo – Ležajevi, kuglasti klizni izrađeni od čelika otpornog na koroziju sa samopodmazujućom oblogom – Široke serije – Za povećana opterećenja pri temperaturi okoline – Dimenzije i opterećenja (EN 2585:2019)  
Aerospace series – Bearing, spherical plain in corrosion resisting steel with self-lubricating liner – Wide series – Elevated load at ambient temperature – Dimensions and loads (EN 2585:2019)

HRN EN 2868:2019 en pr  
Zrakoplovstvo – Krunaste šesterokutne matice, normalna visina, normalni otvor ključa, iz čelika otpornog na visoke temperature, posrebrene – Klasifikacija: 1 100 MPa (pri temperaturi okoline)/650 °C (EN 2868:2019)  
Aerospace series – Nuts, hexagonal, slotted/castellated, normal height, normal across flats, in heat resisting steel, silver plated – Classification: 1 100 MPa (at ambient temperature)/650 °C (EN 2868:2019)

HRN EN 2876:2019 en pr  
Zrakoplovstvo – Ravne niske šesterokutne matice, normalni otvor ključa, iz aluminijske legure, anodizirane – Klasifikacija: 450 MPa (pri temperaturi okoline)/120 °C (EN 2876:2019)  
Aerospace series – Nuts, hexagon, plain, reduced height, normal across flats, in aluminium alloy, anodized – Classification: 450 MPa (at ambient temperature)/120 °C (EN 2876:2019)

HRN EN 4859:2019 en pr  
Zrakoplovstvo – Određivanje sile prednaprežanja na temelju senzora vijci za visoka vlačna opterećenja – Tehnička specifikacija (EN 4859:2019)  
Aerospace series – Sensor based clamp load determination / high tensile bolts – Technical specification (EN 4859:2019)

HRN EN 16842-4:2019 en pr  
Industrijska vozila na motorni pogon – Vidljivost – Metode ispitivanja i verifikacija – 4. dio: Industrijska vozila promjenjivog dohvata kapaciteta do i uključujući 10 000 kg (EN 16842-4:2019)  
Powered industrial trucks – Visibility – Test methods and verification – Part 4: Industrial variable reach trucks up to and including 10 000 kg capacity (EN 16842-4:2019)

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

HRN EN 50574-1:2013/Ispr.1:2019 en pr  
Zahtjevi s obzirom na prikupljanje, logistiku i postupanje za kućanske aparate na kraju životnog ciklusa koji sadrže hlapljive fluorougljike ili hlapljive ugljikovodike (EN 50574-1:2012/AC:2014)  
Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons (EN 50574-1:2012/AC:2014)

HRN EN IEC 60375:2019 en pr  
Konvencije o električnim krugovima (IEC 60375:2018; EN IEC 60375:2018)  
Conventions concerning electric circuits (IEC 60375:2018; EN IEC 60375:2018)

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

HRN EN IEC 60512-23-3:2019 en pr  
Konektori za električnu i elektroničku opremu – Ispitivanja i mjerenja – Dio 23-3: Ispitivanje zaštite i filtriranja – Ispitivanje 23c: Zaštitna učinkovitost konektora i pribora – Metoda linije ubrizgavanja (IEC 60512-23-3:2018; EN IEC 60512-23-3:2019)  
Connectors for electrical and electronic equipment – Tests and measurements – Part 23-3: Screening and filtering tests – Test 23c: Shielding effectiveness of connectors and accessories – Line injection method (IEC 60512-23-3:2018; EN IEC 60512-23-3:2019)

HRN EN IEC 60793-2-50:2019 en pr  
Optička vlakna – Dio 2-50: Specifikacije proizvoda – Sekcijska specifikacija za vlakna razreda B za jedan način rada (IEC 60793-2-50:2018; EN IEC 60793-2-50:2019)  
Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres (IEC 60793-2-50:2018; EN IEC 60793-2-50:2019)

HRN EN 61010-1:2011/A1:2019 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – 1. dio: Opći zahtjevi (IEC 61010-1:2010/am1:2016, MOD; EN 61010-1:2010/A1:2019)  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010/am1:2016, MOD; EN 61010-1:2010/A1:2019)

HRN EN IEC 61967-1:2019 en pr  
Integrirani krugovi – Mjerenja elektromagnetskog zračenja – 1. dio: Opći uvjeti i definicije (IEC 61967-1:2018; EN IEC 61967-1:2019)  
Integrated circuits – Measurement of electromagnetic emissions – Part 1: General conditions and definitions (IEC 61967-1:2018; EN IEC 61967-1:2019)

HRN EN 62852:2015/Ispr.1:2019 en pr  
Konektori za istosmjerne (DC) primjene u fotonaponskim sustavima – Sigurnosni zahtjevi i ispitivanja (EN 62852:2015/AC:2019)  
Connectors for DC-application in photovoltaic systems – Safety requirements and tests (EN 62852:2015/AC:2019)

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

HRN EN 45558:2019 en pr  
Opća metoda za deklariranje uporabe kritičnih sirovina u proizvodima koji troše energiju (EN 45558:2019)  
General method to declare the use of critical raw materials in energy related products (EN 45558:2019)

HRN EN 45559:2019 en pr  
Metode za osiguravanje informacija o aspektima učinkovitosti materijala u proizvodima koji troše energiju (EN 45559:2019)  
Methods for providing information relating to material efficiency aspects of energy-related products (EN 45559:2019)

HRN EN IEC 62660-1:2019 en pr  
Sekundarni litij-ionski članci za pogon električnih cestovnih vozila – 1. dio: Ispitivanje značajki (IEC 62660-1:2018; EN IEC 62660-1:2019)  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing (IEC 62660-1:2018; EN IEC 62660-1:2019)

HRN EN IEC 62660-2:2019 en pr  
Sekundarni litij-ionski članci za pogon električnih cestovnih vozila – 2. dio: Ispitivanje pouzdanosti i lošeg postupanja (IEC 62660-2:2018; EN IEC 62660-2:2019)  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing (IEC 62660-2:2018; EN IEC 62660-2:2019)

HRN EN IEC 62933-2-1:2018/Ispr.1:2019 en pr  
Sustavi za pohranu električne energije (EES) – Dio 2-1: Parametri i ispitne metode jedinica – Opća specifikacija (IEC 62933-2-1:2017/Corr.1:2019; EN IEC 62933-2-1:2018/AC:2019)  
Electrical energy storage (EES) systems – Part 2-1: Unit parameters and testing methods – General specification (IEC 62933-2-1:2017/Corr.1:2019; EN IEC 62933-2-1:2018/AC:2019)

## 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 8, *Brodogradnja*

prEN 1502 en  
Inland navigation vessels – Boarding stairs  
Plovni objekti unutarnje plovidbe – Ukrajne ljestve

prEN 17360 en  
Inland navigation vessels – Stanchions and holders for tiltable and detachable railings  
Plovni objekti unutarnje plovidbe – Stupići i držači za nagibnu i skidljivu ogradu

prEN 17361 en  
Inland navigation vessels – Outboard ladders  
Plovni objekti unutarnje plovidbe – Vanjske skidljive ljestve

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

prEN ISO 945-1 en  
Microstructure of cast irons – Part 1: Graphite classification by visual analysis (ISO/FDIS 945-1:2019)  
Mikrostruktura željeznih lijevova – 1. dio: Razredba grafita vizualnom analizom (ISO/FDIS 945-1:2019)

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

prEN ISO 12922 en  
Lubricants, industrial oils and related products (class L) – Family H (Hydraulic systems) – Specifications for hydraulic fluids in categories HFAE, HFAS, HFB, HFC, HFDR and HFDU (ISO/DIS 12922:2019)  
Maziva, industrijska ulja i srodni proizvodi (razred L) – Podrazred H (hidraulični sustavi) – Specifikacije za hidraulične tekućine za razrede HFAE, HFAS, HFB, HFC, HFDR i HFDU (ISO/DIS 12922:2019)

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

prEN ISO 9455-3 en  
Soft soldering fluxes – Test methods – Part 3: Determination of acid value, potentiometric and visual titration methods (ISO/DIS 9455-3:2019)  
Talila za meko lemljenje – Metode ispitivanja – 3. dio: Određivanje kiselinskog broja, metode potenciometrijske i vizualne titracije (ISO/DIS 9455-3:2019)

## **HZN/TO 92, Zaštita od požara**

prEN 1366-5 en  
Fire resistance tests for service installations – Part 5: Service ducts and shafts  
Ispitivanja otpornosti na požar servisnih instalacija – 5. dio: Servisni kanali i okna

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

prEN 71-2 en  
Safety of toys – Part 2: Flammability  
Sigurnost igraćaka – 2. dio: Zapaljivost

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

prEN 16907-7 en  
Earthworks – Part 7: Hydraulic placement of extractive waste  
Zemljani radovi – 7. dio: Hidrauličko nasipavanje mineralnog otpada

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

prEN 12370 en  
Natural stone test methods – Determination of resistance to salt crystallisation  
Metode ispitivanja prirodnoga kamena – Određivanje otpornosti na kristalizaciju soli

prEN 16301 en  
Natural stone test methods – Determination of sensitivity to accidental staining  
Metode ispitivanja prirodnog kamena – Određivanje osjetljivosti na slučajno bojanje

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

ISO 19127:2019 en  
Geographic information – Geodetic register  
Geoinformacije – Geodetsko prostorno registriranje

ISO 19130-1:2018 en  
Geographic information – Imagery sensor models for geopositioning – Part 1: Fundamentals  
Geoinformacije – Modeli slikovnih senzora za geopozicioniranje – 1. dio: Osnove

FprEN ISO/TS 19139-1 en  
Geographic information – XML schema implementation – Part 1: Encoding rules (ISO/TS 19139-1:2019)  
Geoinformacije – Implementacija XML sheme – 1. dio: Pravila kodiranja (ISO/TS 19139-1:2019)

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

prEN 1534 en  
Wood flooring and parquet – Determination of resistance to indentation – Test method  
Drveni podovi i parketi – Određivanje otpornosti na zasijecanje – Metode ispitivanja

prEN 13629 en  
Wood flooring – Solid individual and pre-assembled hardwood boards  
Drveni podovi – Masivni i lijepljeni podni elementi od drva listača

## **HZN/TO 502, Plinski uređaji**

prEN 203-1 en  
Gas heated catering equipment – Part 1: General safety requirements  
Plinski uređaji za profesionalne kuhinje – 1. dio: Opći sigurnosni zahtjevi

prEN 203-2-1 en  
Gas heated catering equipment – Part 2-1: Specific requirements – Open burners and wok burners  
Plinski uređaji za profesionalne kuhinje – Dio 2-1: Specifični zahtjevi – Otvoreni plamenici i wok plamenici

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

prEN ISO 439 en  
Steel and cast irons – Determination of silicon content – Gravimetric method (ISO/DIS 439:2019)  
Čelik i željezni lijev – Određivanje ukupnog udjela silicija – Gravimetrijska metoda (ISO/DIS 439:2019)

prEN 1676 en  
Aluminium and aluminium alloys – Alloyed ingots for remelting – Specifications  
Aluminij i aluminijeve legure – Legirani ingoti za pretaljanje – Specifikacije

prEN 1706 en  
Aluminium and aluminium alloys – Castings – Chemical composition and mechanical properties  
Aluminij i aluminijeve legure – Odljevci – Kemijski sastav i mehanička svojstva

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

prEN 1971-2 en  
Copper and copper alloys – Eddy current test for measuring defects on seamless round copper and copper alloy tubes – Part 2: Test with an internal probe on the inner surface  
Bakar i legure bakra – Ispitivanje vrtložnim strujama radi mjerenja grešaka na bešavnim okruglim cijevima od bakra i legura bakra – 2. dio: Ispitivanje unutrašnjom sondom na unutrašnjoj površini

prEN 10217-7 en  
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 7: Stainless steel tubes  
Zavarene čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 7. dio: Cijevi od nehrđajućih čelika

prEN 16090 en  
Copper and copper alloys – Estimation of average grain size by ultrasound  
Bakar i legure bakra – Procjena prosječne veličine zrna ultrazvukom

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

prEN ISO 13680 en

Petroleum and natural gas industries – Corrosion-resistant alloy seamless tubular products for use as casing, tubing, coupling stock and accessory material – Technical delivery conditions (ISO/DIS 13680:2019)  
Industrija nafte i prirodnoga plina – Bešavne cijevi od legura otpornih na koroziju, koje se upotrebljavaju kao zaštitne cijevi (casing), uzlazne cijevi (tubing), spojnice i materijal za pribor – Tehnički uvjeti isporuke (ISO/DIS 13680:2019)

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

prEN ISO 4180 en

Packaging – Complete, filled transport packages – General rules for the compilation of performance test schedules  
Ambalaža – Cjelovite, ispunjene transportne pakovine – Opće upute za kompilaciju izvedbe redoslijeda ispitivanja

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

prEN 12414 en

Vehicle parking control equipment – Requirements and test methods for a parking terminal

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

prEN 235 en

Wallcoverings – Vocabulary and symbols  
Zidni pokrovi – Terminološki rječnik i simboli

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

prEN 15722 en

Intelligent transport systems – ESafety – ECall minimum set of data  
Inteligentni transportni sustavi – Elektronička sigurnost – Najmanji skup podataka za elektroničke hitne pozive iz vozila

prEN 17358 en

Intelligent transport systems – ESafety – eCall OAD for multiple Optional Additional Datasets

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

EN 12082:2017/prA1 en

Railway applications – Axleboxes – Performance testing  
Željeznički sustav – Kucišta osovinskih ležaja – Ispitivanje radnih značajka

EN 13848-6:2014/prA1 en

Railway applications – Track – Track geometry quality – Part 6: Characterisation of track geometry quality  
Željeznički sustav – Željeznički gornji ustroj – Kvaliteta kolosiječne geometrije – 6. dio: Definiranje kvalitete kolosiječne geometrije

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

prEN ISO 305 en

Plastics – Determination of thermal stability of poly(vinyl chloride), related chlorine-containing homopolymers and copolymers and their compounds – Discoloration method (ISO/DIS 305:2019)  
Plastika – Određivanje toplinske postojanosti poli(vinil-klorida), srodnih homopolimera i kopolimera koji sadrže klor i njihovih mješavina – Metoda promjene obojenja (ISO/DIS 305:2019)

prEN ISO 11357-2 en

Plastics – Differential scanning calorimetry (DSC) – Part 2: Determination of glass transition temperature and step height (ISO/DIS 11357-2:2019)  
Plastika – Diferencijalna pretražna kalorimetrija – 2. dio: Određivanje staklišta i visine koraka staklišta (ISO/DIS 11357-2:2019)

prEN ISO 13468-1 en

Plastics – Determination of the total luminous transmittance of transparent materials – Part 1: Single-beam instrument (ISO/FDIS 13468-1:2019)  
Plastika – Određivanje ukupne svjetlosne propustnosti prozirnih materijala – 1. dio: Instrument s jednim snopom (ISO/FDIS 13468-1:2019)

prEN ISO 17422 en

Plastics – Environmental aspects – General guidelines for their inclusion in standards (ISO 17422:2018)  
Plastika – Aspekti okoliša – Opće smjernice za njihovo uključivanje u norme (ISO 17422:2018)

prEN ISO 19063-2 en

Plastics – Impact-resistant polystyrene (PS-I) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 19063-2:2019)  
Plastika – Kalupljeni i ekstrudirani žilavi polistirenski materijali (PS-I) – 2. dio: Priprava ispitaka i određivanje svojstava (ISO/DIS 19063-2:2019)

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

EN 1993-1-5:2006/prA2 en

Eurocode 3 – Design of steel structures – Part 1-5: Plated structural elements  
Eurokod 3 – Projektiranje čeličnih konstrukcija – Dio 1-5: Pločasti konstrukcijski elementi

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

prEN ISO 22367 en

Medical laboratories – Application of risk management to medical laboratories (ISO/DIS 22367:2019)  
Medicinski laboratoriji – Upravljanje rizicima (ISO/DIS 22367:2019)

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

prEN ISO 105-A03 en

Textiles – Tests for colour fastness – Part A03: Grey scale for assessing staining (ISO/DIS 105-A03:2019)  
Tekstil – Ispitivanje postojanosti obojenja – Dio A03: Siva skala za ocjenu prelaska boje (ISO/DIS 105-A03:2019)

prEN ISO 1833-15 en

Textiles – Quantitative chemical analysis – Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content) (ISO/DIS 1833-15:2019)  
Tekstil – Kvantitativna kemijska analiza – 15. dio: Mješavine jute i određenih životinjskih vlakana (metoda određivanja sadržaja dušika) (ISO/DIS 1833-15:2019)

prEN ISO 1833-17 en

Textiles – Quantitative chemical analysis – Part 17: Mixtures of chlorofibres (homopolymers of vinyl chloride) and certain other fibres (method using sulfuric acid) (ISO/DIS 1833-17)  
Tekstil – Kvantitativna kemijska analiza – 17. dio: Mješavine klornih (homopolimeri vinil-klorida) i određenih drugih vlakana (metoda s uporabom sulfatne kiseline) (ISO/DIS 1833-17)

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

prEN ISO 5912 en

Camping tents – Requirements and test methods (ISO/DIS 5912:2019)  
Šatori za kampiranje – Zahtjevi i metode ispitivanje (ISO/DIS 5912:2019)

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

prEN 50155 en

Railway applications – Rolling stock – Electronic equipment  
Željeznički sustav – Željeznička vozila – Elektronička oprema

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

prEN IEC 62056-8-8:2019 en

Electricity metering data exchange – The DLMS/COSEM suite – Part 8-8: Communication profile for ISO/IEC 14908 series networks (IEC 62056-8-8:201X)

## **HZN/TO E22, Energetska elektronika**

EN 62823:2015/prA1:2019 en

Thyristor valves for thyristor controlled series capacitors (TCSC) – Electrical testing (IEC 62823:2015/am1:201X)  
Tiristorski ventili za tiristorski upravljane serijske kondenzatore (TCSC) – Električno ispitivanje (IEC 62823:2015/am1:201X)

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

prEN IEC 60669-2-1:2019 en  
Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches (IEC 60669-2-1:201X)  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-1: Posebni zahtjevi – Elektroničke sklopke (IEC 60669-2-1:201X)

## HZN/TO E31, *Eksplozivne atmosfere*

prEN IEC 62990-2:2019 en  
Workplace atmospheres – Part 2: Gas detectors – Selection, installation, use and maintenance of detectors for toxic gases and vapours and oxygen (IEC 62990-2:201X)  
Atmosfera radnih prostora – 2. dio: Oprema za otkrivanje i mjerenje zapaljivih plinova – Odabir, postavljanje, uporaba i održavanje detektora otrovnih plinova, para i kisika (IEC 62990-2:201X)

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

prEN IEC 61547:2019 en  
Equipment for general lighting purposes – EMC immunity requirements (IEC 61547:201X)  
Oprema za opće primjene osvijetljivanja – Zahtjevi koji se odnose na EMK povezani s otpornošću (IEC 61547:201X)

prEN IEC 62386-105:2019 en  
Digital addressable lighting interface – Part 105: Particular requirements for control gear – Firmware Transfer (IEC 62386-105:201X)

## HZN/TO E55, *Žice za namote*

prEN IEC 60317-27-3:2019 en  
Specifications for particular types of winding wires – Part 27-3: Paper tape covered rectangular copper wire (IEC 60317-27-3:201X)

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

EN 60335-2-5:2015/prAA:2019 en  
Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers  
Kućanski i slični električni aparati – Sigurnost – Dio 2-5: Posebni zahtjevi za perilice posuđa

## HZN/TO E79, *Alarmni sustavi*

prEN IEC 60839-11-5:2019 en  
Alarm and electronic security systems – Part 11-5: Electronic access control systems – Open Supervised Device Protocol (OSDP) (IEC 60839-11-5:201X)  
Alarmni i elektronički sustavi zaštite – Dio 11-5: Sustavi elektroničke kontrole ulaska – Protokol za otvoreni nadzirani uređaj (OSDP) (IEC 60839-11-5:201X)

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

EN IEC 61162-460:2018/prA1 en  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 460: Multiple talkers and multiple listeners – Ethernet interconnection – Safety and security (IEC 61162-460:2018/am1:201X)  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Digitalno sučelje – 460. dio: Više govornika i više slušatelja – Ethernet povezivanje – Sigurnost i zaštita (IEC 61162-460:2018/am1:201X)

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

prEN IEC 60565-1:2019 en  
Underwater acoustics – Hydrophones – Calibration of hydrophones – Part 1: Procedures for free-field calibration (IEC 60565-1:201X)  
Podvodna akustika – Hidrofoni – Umjeravanje hidrofona – 1. dio: Postupci za umjeravanje u slobodnom polju (IEC 60565-1:201X)

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

CLC/FprTR 50600-99-1:2019 en  
Information technology – Data centre facilities and infrastructures – Part 99-1: Recommended practices for energy management  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 99-1: Preporučene prakse upravljanja energijom

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

Draft EN 301 841-2 V1.2.0:2019 en  
VHF air-ground Digital Link (VDL) Mode 2 – Technical characteristics and methods of measurement for ground-based equipment – Part 2: Upper layers  
VHF digitalna veza (VDL) zrak-tlo mod 2 – Tehničke karakteristike i metode mjerenja za opremu smještenu na tlu – 2. dio: Gornji slojevi

Draft EN 302 217-1 V3.2.0:2019 en  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview, common characteristics and system-independent requirements  
Nepokretni radijski sustavi – Karakteristike i zahtjevi za opremu točka-točka i antene – 1. dio: Pregled, zajedničke karakteristike i zahtjevi ovisni o sustavu

Draft EN 302 217-2 V3.2.0:2019 en  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 2: Digital systems operating in frequency bands from 1 GHz to 86 GHz – Harmonised Standard for access to radio spectrum  
Nepokretni radijski sustavi; Karakteristike i zahtjevi za opremu točka-točka i antene – 2. dio: Digitalni sustavi koji rade u frekvencijskim pojasi od 1 GHz do 86 GHz – Harmonizirana norma za pristup radijskom spektru

Draft EN 302 636-5-1 V2.2.0:2019 en  
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 5: Transport Protocols – Sub-part 1: Basic Transport Protocol  
Inteligentni sustavi prijevoza (ITS) – Komunikacije među vozilima – Geomrežavanje – 5. dio: Protokoli prijevoza – 1. poddio: Bazični protokol prijevoza

Draft EN 303 446-1 V1.2.0:2019 en  
ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment – Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations  
Norma za elektromagnetsku kompatibilnost (EMC) kombinirane i/ili integrirane radijske i ne-radijske opreme – 1. dio: Zahtjevi za opremu namijenjenu za uporabu u stambenim, trgovačkim i područjima lake industrije

Draft EN 303 446-2 V1.2.0:2019 en  
ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment – Part 2: Requirements for equipment intended to be used in industrial locations  
Norma za elektromagnetsku kompatibilnost (EMC) kombinirane i/ili integrirane radijske i ne-radijske opreme – 2. dio: Zahtjevi za opremu namijenjenu za uporabu u industrijskim područjima

Draft EN 303 520 V1.1.2:2019 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

## HZN/TU I2, *Strojarstvo 2*

prEN 15571 en  
Machines and plants for mining and tooling of natural stone – Safety – Requirements for surface-finishing machines  
Strojevi i postrojenja za eksploataciju i obradu prirodnoga kamena – Sigurnost – Zahtjevi za strojeve za površinsku obradu

prEN 16564 en

Machines and plants for mining and tooling of natural stone – Safety – Requirements for bridge type sawing/milling machines, included numerical control (NC/CNC) versions  
Strojevi i postrojenja za eksploataciju i obradu prirodnoga kamena – Sigurnost – Zahtjevi za mosne pile/glodalice uključujući numerički upravljane alatne strojeve (NC/CNC)

prEN ISO 20785-2 en

Dosimetry for exposures to cosmic radiation in civilian aircraft – Part 2: Characterization of instrument response (ISO/DIS 20785-2:2019)  
Dozimetrija izloženosti kozmičkom zračenju u civilnim zrakoplovima – 2. dio: Karakterizacija odziva instrumenta (ISO/DIS 20785-2:2019)

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

prEN ISO 8871-2 en

Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 2: Identification and characterization (ISO/DIS 8871-2:2019)  
Elastomerni dijelovi za parenteralne preparate i uređaje za farmaceutsku primjenu – 2. dio: Identifikacija i karakterizacija (ISO/DIS 8871-2:2019)

prEN ISO 9693 en

Dentistry – Compatibility testing for metal-ceramic and ceramic-ceramic systems (ISO/DIS 9693:2019)  
Stomatologija – Ispitivanje kompatibilnosti metalkeramičkih i keramičkih sustava (ISO/DIS 9693:2019)

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

FprEN 2465 en

Aerospace series – Steel X2CrNi18-9 (1.4307) – Softened – 450 MPa ≤ Rm ≤ 680 MPa – Bar for machining – 4 mm ≤ De ≤ 100 mm

FprEN 3155-008 en

Aerospace series – Electrical contacts used in elements of connection – Part 008: Contacts, electrical, male, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 008. dio: Kontakti, električni, muški, tip A, za krimpanje, razreda S – Norma za proizvod

FprEN 3660-033 en

Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 033: Stainless steel banding band, style Z, for attachment of individual and/or overall screens to cable outlets – Product standard

FprEN 3837 en

Aerospace series – Paints and varnishes – Nature and methods for surface preparation of test pieces in aluminium alloys

FprEN 3844-1 en

Aerospace series – Flammability of non metallic materials – Part 1: Small burner test, vertical – Determination of the vertical flame propagation  
Zrakoplovstvo – Zapaljivost nemetalnih materijala – 1. dio: Ispitivanje malim plamenikom, vertikalno – Određivanje vertikalnog rasprostiranja plamena

FprEN 3844-2 en

Aerospace series – Flammability of non metallic materials – Part 2: Small burner test, horizontal – Determination of the horizontal flame propagation  
Zrakoplovstvo – Zapaljivost nemetalnih materijala – 2. dio: Ispitivanje malim plamenikom, horizontalno – Određivanje horizontalnog rasprostiranja plamena

FprEN 3844-3 en

Aerospace series – Flammability of non metallic materials – Part 3: Small burner test, 45° – Determination of the resistance of material to flame and glow propagation and to flame penetration  
Nizovi o zrakoplovstvu – Zapaljivost nemetalnih materijala – 3. dio: Ispitivanje malim plamenikom, 45° – Određivanje otpornosti materijala na plamen i rasprostiranje plamena te prodor plamena

FprEN 4056-003 en

Aerospace series – Cable ties for harnesses – Part 003: Plastic cable ties – Operating temperatures -65 °C to 105 °C and -65 °C to 150 °C – Product standard  
Zrakoplovstvo – Obujmice za kabelske snopove – Dio 003: Plastične obujmice – Radne temperature od -65 °C do 105 °C i od -65 °C do 150 °C – Norma za proizvod

FprEN 4476 en

Aerospace series – Paints and varnishes – Cold curing intermediate coat  
Zrakoplovstvo – Boje i lakovi – Pomoćni premaz za hladnu konzervaciju

FprEN 4612-002 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 002: General  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 002. dio: Općenito

FprEN 4612-003 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 003: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Single extruded wall for open applications, with jacket without screen – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 003. dio: Bakar prevučeni kositrom – Radna temperatura između -65 °C i 135 °C – Jednostruka izolacija zida za upotrebu na otvorenom, sa oblogom bez oklopa – Ispitivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-004 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 004: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 004. dio: Bakar prevučeni kositrom – Radna temperatura između -65 °C i 135 °C – Jednostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispitivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-005 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 005: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 005. dio: Bakar prevučeni kositrom – Radna temperatura između -65 °C i 135 °C – Dvostruka izolacija zida za upotrebu na otvorenom, sa oblogom bez oklopa – Ispitivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-006 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 006: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 006. dio: Bakar prevučeni kositrom – Radna temperatura između -65 °C i 135 °C – Dvostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispitivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-008 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 008: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Single extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 008. dio: Bakar prevučeni srebrom – Radna temperatura između -65 °C i 150 °C – Jednostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispitivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-009 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 009: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 009. dio: Bakar prevučen srebrom – Radna temperatura između -65 °C i 150 °C – Dvostruka izolacija zida za upotrebu na otvorenom, sa oblogom bez oklopa – Ispisivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-010 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 010: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 010. dio: Bakar prevučen srebrom – Radna temperatura između -65 °C i 150 °C – Dvostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispisivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-011 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly XLETFE Family jacketed or screened and jacketed – Part 011: Nickel plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications, with jacket without screen – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 011. dio: Bakar prevučeni niklom – Radna temperatura između -65 °C i 150 °C – Dvostruka izolacija zida za upotrebu na otvorenom, sa oblogom bez oklopa – Ispisivanje pomoću UV lasera – Norma za proizvod

FprEN 4612-012 en

Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 012: Nickel plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 012. dio: Bakar prevučeni niklom – Radna temperatura između -65 °C i 150 °C – Dvostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispisivanje pomoću UV lasera – Norma za proizvod

FprEN 4868 en

Aerospace series – Anodic electrodeposition of hexavalent chromium free primer

prEN 16803-2 en

Space – Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) – Part 2: Assessment of basic performances of GNSS-based positioning terminals

prEN 16803-3 en

Space – Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) – Part 3: Assessment of security performances of GNSS-based positioning terminals

prEN 16842-10 en

Powered industrial trucks – Visibility – Test methods and verification – Part 10: Towing and Pushing tractors and Burden carrier

## HZN/TU U1, *Opća elektrotehnika 1*

prEN IEC 60068-2-70:2019 en

Environmental testing – Part 2-70: Tests – Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands (IEC 60068-2-70:201X)  
Ispitivanje utjecaja okoliša – Dio 2-70: Ispitivanja – Xb ispitivanje: Trošenje oznaka i natpisa uzrokovanih trljanjem prstima i rukama (IEC 60068-2-70:201X)

prEN IEC 60664-1:2019 en

Insulation coordination for equipment within low-voltage supply systems – Part 1: Principles, requirements and tests (IEC 60664-1:201X)  
Koordinacija izolacije za opremu u niskonaponskim sustavima napajanja – 1. dio: Načela, zahtjevi i ispitivanja (IEC 60664-1:201X)

prEN IEC 60721-3:2019 en

Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Introduction (IEC 60721-3-0:201X)  
Klasifikacija uvjeta okoliša – 3. dio: Klasifikacija skupina parametara okoliša i njihovog inteziteta – Uvod (IEC 60721-3-0:201X)

prEN IEC 62321-3-2:2019 en

Determination of certain substances in electrotechnical products – Part 3-2: Screening of fluorine, bromine and chlorine in polymer and electronics by Combustion-Ion Chromatography (C-IC) (IEC 62321-3-2:201X)  
Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – Dio 3-2: Provjera količine fluora, broma i klora u polimerima i elektronici pomoću izgaranja – Ion kromatografija (IEC 62321-3-2:201X)

EN IEC 62474:2019/prA1:2019 en

Material declaration for products of and for the electrotechnical industry (IEC 62474:2018/am1:201X)  
Deklaracija materijala za proizvode za elektrotehničku industriju (IEC 62474:2018/am1:201X)

## HZN/TU V1, *Elektronika 1*

prEN IEC 60904-9:2019 en

Photovoltaic devices – Part 9: Classification of solar simulator characteristics (IEC 60904-9:201X)

prEN IEC 63171-6:2019 en

Connectors for electrical and electronic components – Product requirements – Part 6: Connectors – Detail specification for 2-way and 4-way (data/power), shielded, free and fixed connectors for transmission capability and power supply capability with frequencies up to 600 MHz (IEC 63171-6:201X)

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

prEN IEC 60086-6:2019 en

Primary batteries – Part 6: Guidance on environmental aspects (IEC 60086-6:201X)

EN 60531:2000/FprAA:2019 en

Household electric thermal storage room heaters – Methods for measuring performance  
Kućanske termoakumulacijske grijalice prostora – Metode za mjerenje radnih značajka

EN 60675:1995/FprAA:2019 en

Household electric direct-acting room heaters – Methods for measuring performance  
Kućanske sobne grijalice s izravnim grijanjem – Postupak mjerenja radnih značajka

## 1.4 Povučene hrvatske norme

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

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

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

HRN ISO 5721:2001 en

Poljoprivredni traktori – Vidno polje rukovatelja (ISO 5721:1989)  
Tractors for agriculture – Operator's field of vision (ISO 5721:1989)  
- zamijenjena s: HRN ISO 5721-1:2019, HRN ISO 5721-2:2019

HRN EN ISO 10517:2010 en  
Motorni čistili – Sigurnost (ISO 10517:2009; EN ISO 10517:2009)  
Powered hand-held hedge trimmers – Safety (ISO 10517:2009; EN ISO 10517:2009)  
- zamijenjena s: HRN EN ISO 10517:2019

HRN EN ISO 10517:2010/A1:2014 en  
Motorni čistili – Sigurnost (ISO 10517:2009/Amd 1:2013; EN ISO 10517:2009/A1:2013)  
Powered hand-held hedge trimmers – Safety (ISO 10517:2009/Amd 1:2013; EN ISO 10517:2009/A1:2013)  
- zamijenjena s: HRN EN ISO 10517:2019

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

HRN EN 14214:2014 en\*hr  
Tekući naftni proizvodi – Metilni esteri masnih kiselina (FAME) za dizelske motore i grijanje – Zahtjevi i metode ispitivanja (EN 14214:2012+A1:2014)  
Liquid petroleum products – Fatty acid methyl esters (FAME) for use in diesel engines and heating applications – Requirements and test methods (EN 14214:2012+A1:2014)  
- zamijenjena s: HRN EN 14214:2019

HRN EN 14214:2014/Ispr.1:2014 en  
Tekući naftni proizvodi – Metilni esteri masnih kiselina (FAME) za dizelske motore i grijanje – Zahtjevi i metode ispitivanja (EN 14214:2012+A1:2014/AC:2014)  
Liquid petroleum products – Fatty acid methyl esters (FAME) for use in diesel engines and heating applications – Requirements and test methods (EN 14214:2012+A1:2014/AC:2014)  
- zamijenjena s: HRN EN 14214:2019

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

HRN EN ISO 17201-3:2011 en  
Akustika – Buka streljana – 3. dio: Smjernice za računanje širenja zvuka (ISO 17201-3:2010; EN ISO 17201-3:2010)  
Acoustics – Noise from shooting ranges – Part 3: Guidelines for sound propagation calculations (ISO 17201-3:2010; EN ISO 17201-3:2010)  
- zamijenjena s: HRN EN ISO 17201-3:2019

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

HRN EN ISO 5178:2012 en  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Uzdužno vlačno ispitivanje metala zavara zavarenih spojeva nastalih taljenjem (ISO 5178:2001; EN ISO 5178:2011)  
Destructive tests on welds in metallic materials – Longitudinal tensile test on weld metal in fusion welded joints (ISO 5178:2001; EN ISO 5178:2011)  
- zamijenjena s: HRN EN ISO 5178:2019

HRN EN ISO 13588:2012 en  
Nerazorno ispitivanje zavarenih spojeva – Ultrazvučno ispitivanje – Upotreba sustava automatske višepretvorničke tehnologije (ISO 13588:2012; EN ISO 13588:2012)  
Non-destructive testing of welds – Ultrasonic testing – Use of automated phased array technology (ISO 13588:2012; EN ISO 13588:2012)  
- zamijenjena s: HRN EN ISO 13588:2019

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

HRN EN 934-6:2004 en  
Dodaci betonu, mortu i mortu za injektiranje – 6. dio: Uzorkovanje, kontrola sukladnosti i vrednovanje sukladnosti (EN 934-6:2001)  
Admixtures for concrete, mortar and grout – Part 6: Sampling, conformity control and evaluation of conformity (EN 934-6:2001)  
- zamijenjena s: HRN EN 934-6:2019

HRN EN 934-6:2004/A1:2008 en  
Dodaci betonu, mortu i mortu za injektiranje – 6. dio: Uzorkovanje, kontrola sukladnosti i vrednovanje sukladnosti (EN 934-6:2001/A1:2005)  
Admixtures for concrete, mortar and grout – Part 6: Sampling, conformity control and evaluation of conformity (EN 934-6:2001/A1:2005)  
- zamijenjena s: HRN EN 934-6:2019

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

HRS CEN ISO/TS 17892-11:2008 en  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 11. dio: Određivanje propusnosti metodom stalnog i promjenjivog potencijala (ISO/TS 17892-11:2004; CEN ISO/TS 17892-11:2004)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 11: Determination of permeability by constant and falling head (ISO/TS 17892-11:2004; CEN ISO/TS 17892-11:2004)  
- zamijenjena s: HRN EN ISO 17892-11:2019

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

HRS ISO/TS 19104:2013 en  
Geoinformacije – Pojmovnik (ISO/TS 19104:2008)  
Geographic information – Terminology (ISO/TS 19104:2008)  
- zamijenjena s: HRN ISO 19104:2019

HRS ISO/TS 19138:2008 en  
Geoinformacije – Mjere za kvalitetu podataka (ISO/TS 19138:2006)  
Geographic information – Data quality measures (ISO/TS 19138:2006)  
- zamijenjena s: HRN EN ISO 19157:2014

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

HRN EN ISO 15630-1:2010 en  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 1. dio: Armaturne šipke, valjana žica i žica (ISO 15630-1:2010; EN ISO 15630-1:2010)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 1: Reinforcing bars, wire rod and wire (ISO 15630-1:2010; EN ISO 15630-1:2010)  
- zamijenjena s: HRN EN ISO 15630-1:2019

HRN EN ISO 15630-2:2010 en  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 2. dio: Zavarene mreže (ISO 15630-2:2010; EN ISO 15630-2:2010)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 2: Welded fabric (ISO 15630-2:2010; EN ISO 15630-2:2010)  
- zamijenjena s: HRN EN ISO 15630-2:2019

HRN EN ISO 15630-3:2010 en  
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 3. dio: Čelik za prednapinjanje (ISO 15630-3:2010; EN ISO 15630-3:2010)  
Steel for the reinforcement and prestressing of concrete – Test methods – Part 3: Prestressing steel (ISO 15630-3:2010; EN ISO 15630-3:2010)  
- zamijenjena s: HRN EN ISO 15630-3:2019

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

HRN EN ISO 16812:2008 en  
Industrija nafte i prirodnog plina – Izmjenjivači topline s cijevnim snopom u plaštu (ISO 16812:2007; EN ISO 16812:2007)  
Petroleum, petrochemical and natural gas industries – Shell-and-tube heat exchangers (ISO 16812:2007; EN ISO 16812:2007)  
- zamijenjena s: HRN EN ISO 16812:2019

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

HRS CEN/TS 16157-2:2012 en  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 2. dio: Referenciranje lokacija (CEN/TS 16157-2:2011)  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 2: Location referencing (CEN/TS 16157-2:2011)  
- zamijenjena s: HRN EN 16157-2:2019

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

HRN EN 14535-1:2011 en  
Željeznički sustav – Kočni diskovi za vozni park – 1. dio: Kočni diskovi, naprešani ili toplo navučeni na osovine ili vratila, dimenzije i zahtjevi za kvalitetu (EN 14535-1:2005+A1:2011)  
Railway applications – Brake discs for railway rolling stock – Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements (EN 14535-1:2005+A1:2011)  
- zamijenjena s: HRN EN 14535-1:2019

HRN EN 14535-2:2011 en  
Željeznički sustav – Kočni diskovi za vozni park – 2. dio: Kočni diskovi, postavljeni na kotače, dimenzije i zahtjevi za kvalitetu (EN 14535-2:2011)  
Railway applications – Brake discs for railway rolling stock – Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements (EN 14535-2:2011)  
- zamijenjena s: HRN EN 14535-2:2019

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

HRN EN ISO 3451-1:2009 en  
Plastika – Određivanje pepela – 1. dio: Opće metode (ISO 3451-1:2008; EN ISO 3451-1:2008)  
Plastics – Determination of ash – Part 1: General methods (ISO 3451-1:2008; EN ISO 3451-1:2008)  
- zamijenjena s: HRN EN ISO 3451-1:2019

HRN EN ISO 4613-1:2008 en  
Plastika – Etilen/vinil-acetatni (E/VAC) materijali za kalupljenje i ekstrudiranje – 1. dio: Označavanje i specifikacija (ISO 4613-1:1993; EN ISO 4613-1:1999)  
Plastics – Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials – Part 1: Designation and specification (ISO 4613-1:1993; EN ISO 4613-1:1999)  
- zamijenjena s: HRN EN ISO 21301-1:2019

HRN EN ISO 4613-2:2008 en  
Plastika – Etilen/vinil-acetatni (E/VAC) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 4613-2:1995+Amd 1:2004; EN ISO 4613-2:1995+A1:2004)  
Plastics – Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 4613-2:1995+Amd 1:2004; EN ISO 4613-2:1995+A1:2004)  
- zamijenjena s: HRN EN ISO 21301-2:2019

HRN EN ISO 7391-1:2008 en  
Plastika – Polikarbonatni (PC) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 7391-1:2006; EN ISO 7391-1:2006)  
Plastics – Polycarbonate (PC) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 7391-1:2006; EN ISO 7391-1:2006)  
- zamijenjena s: HRN EN ISO 21305-1:2019

HRN EN ISO 7391-2:2008 en  
Plastika – Polikarbonatni (PC) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 7391-2:2006; EN ISO 7391-2:2006)  
Plastics – Polycarbonate (PC) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 7391-2:2006; EN ISO 7391-2:2006)  
- zamijenjena s: HRN EN ISO 21305-2:2019

HRN EN 14728:2008 en  
Nedostaci plastomernih zavara – Klasifikacija (EN 14728:2005)  
Imperfections in thermoplastic welds – Classification (EN 14728:2005)  
- zamijenjena s: HRN EN 14728:2019

## HZN/TO 533, *Kolničke konstrukcije*

HRN EN 12697-5:2009/Ispr.1:2012 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 5. dio: Određivanje gustoće asfaltne mješavine (EN 12697-5:2009/AC:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 5: Determination of the maximum density (EN 12697-5:2009/AC:2012)  
- zamijenjena s: HRN EN 12697-5:2019

HRN EN 12697-31:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 31. dio: Priprema uzorka kružnim zbijanjem (EN 12697-31:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 31: Specimen preparation by gyratory compactor (EN 12697-31:2007)  
- zamijenjena s: HRN EN 12697-31:2019

HRN EN 12697-32:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 32. dio: Laboratorijsko zbijanje asfaltnih mješavina vibracijskim zbijanjem (EN 12697-32:2003+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 32: Laboratory compaction of bituminous mixtures by vibratory compactor (EN 12697-32:2003+A1:2007)  
- zamijenjena s: HRN EN 12697-32:2019

HRN EN 12697-33:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 33. dio: Priprema asfaltnog uzorka valjkastim zbijanjem (EN 12697-33:2003+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 33: Specimen prepared by roller compactor (EN 12697-33:2003+A1:2007)  
- zamijenjena s: HRN EN 12697-33:2019

HRN EN 12697-44:2011 en  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 44. dio: Razvoj pukotine ispitivanjem polucilindričnog uzorka na savijanje (EN 12697-44:2010)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 44: Crack propagation by semi-circular bending test (EN 12697-44:2010)  
- zamijenjena s: HRN EN 12697-44:2019

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

HRN EN 14134:2004 en  
Ventilacija u zgradama – Ispitivanje značajki i provjera instalacije za stambene ventilacijske sustave (EN 14134:2004)  
Ventilation for buildings – Performance testing and installation checks of residential ventilation systems (EN 14134:2004)  
- zamijenjena s: HRN EN 14134:2019

HRN EN ISO 14414:2015 en  
Energijska procjena pumpnih sustava (ISO/ASME 14414:2015; EN ISO 14414:2015)  
Pump system energy assessment (ISO/ASME 14414:2015; EN ISO 14414:2015)  
- zamijenjena s: HRN EN ISO 14414:2019

HRN EN ISO 14414:2015/A1:2016 en  
Energijska procjena pumpnih sustava (ISO/ASME 14414:2015/Amd 1:2016; EN ISO 14414:2015/A1:2016)  
Pump system energy assessment (ISO/ASME 14414:2015/Amd 1:2016; EN ISO 14414:2015/A1:2016)  
- zamijenjena s: HRN EN ISO 14414:2019

## HZN/TO 544, *Strojni elementi*

HRN ISO 3547-1:2008 en  
Klizni ležajevi – Čahure sa zazorom – 1. dio: Mjere (ISO 3547-1:2006)  
Plain bearings – Wrapped bushes – Part 1: Dimensions (ISO 3547-1:2006)  
- zamijenjena s: HRN ISO 3547-1:2019

HRN ISO 4379:2008 en  
Klizni ležajevi – Bakrene čahure bez proreza (ISO 4379:1993)  
Plain bearings – Copper alloy bushes (ISO 4379:1993)  
- zamijenjena s: HRN ISO 4379:2019

HRN ISO 4386-3:2008 en  
Klizni ležajevi – Klizni ležajevi iz višeslojnih metala – 3. dio: Ispitivanje bez razaranja s penetrantom (ISO 4386-3:1992)  
Plain bearings – Metallic multilayer plain bearings – Part 3: Non-destructive penetrant testing (ISO 4386-3:1992)  
- zamijenjena s: HRN ISO 4386-3:2019

HRN ISO 6280:2008 en  
Klizni ležajevi – Zahtjevi za materijal podloge debelih višeslojnih ležajeva (ISO 6280:1981)  
Plain bearings – Requirements on backings for thick-walled multilayer bearings (ISO 6280:1981)  
- zamijenjena s: HRN ISO 6280:2019

HRN ISO 6282:2008 en  
Klizni ležajevi – Metalni tankostijeni poluležajevi – Određivanje granice 0,01 (ISO 6282:1983)  
Plain bearings – Metallic thin-walled half bearings – Determination of the sigma 0,01\*-limit (ISO 6282:1983)  
- zamijenjena s: HRN ISO 6282:2019



HRN ISO 6525:2008 en  
Klizni ležajevi – Prstenasta odzivna ploča izrađena iz trake  
– Mjere i tolerancije (ISO 6525:1983)  
Plain bearings – Ring type thrust washers made from strip  
– Dimensions and tolerances (ISO 6525:1983)  
- zamijenjena s: HRN ISO 6525:2019

### **HZN/TO E45, Nuklearna instrumentacija**

HRN IEC 60462:2001 en  
Standardni analitički postupci fotopojalača koji služe za scintilacijsko brojanje (IEC 60462:1974)  
Standard test procedures for photomultiplier tubes for scintillation counting (IEC 60462:1974)  
- zamijenjena s: HRN IEC 60462:2019

HRN IEC 60951-1:1998 en  
Oprema za nadziranje zračenja u uvjetima nezgode ili poslije nezgode u nuklearnim elektranama – 1. dio: Opći zahtjevi (IEC 60951-1:1988)  
Radiation monitoring equipment for accident and post-accident conditions in nuclear power plants – Part 1: General requirements (IEC 60951-1:1988)  
- zamijenjena s: HRN IEC 60951-1:2019

HRN IEC 61559:1998 en  
Zračenje u nuklearnim objektima – Centralizirani sustav za neprekidno nadziranje zračenja i/ili razina radioaktivnosti (IEC 61559:1996)  
Radiation in nuclear facilities – Centralized system for continuous monitoring of radiation and/or levels of radioactivity (IEC 61559:1996)  
- zamijenjena s: HRN IEC 61559-1:2019

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

HRN EN 61858:2008 en  
Električni izolacijski sustavi – Toplinska procjena promjene namota sa okruglom žicom (EIS) (IEC 61858:2008; EN 61858:2008)  
Electrical insulation systems – Thermal evaluation of modifications to an established wire-wound EIS (IEC 61858:2008; EN 61858:2008)  
- zamijenjena s: HRN EN 61858-1:2014

### **HZN/TO Z1, Informacijska tehnologija**

HRN ISO/IEC 9798-3:2013 en  
Informacijska tehnologija – Sigurnosne tehnike – Autentifikacija subjekta – 3. dio: Mehanizmi korištenja tehnika digitalnog potpisa (ISO/IEC 9798-3:1998+Cor 1:2009+Amd 1:2010+Cor 2:2012)  
Information technology – Security techniques – Entity authentication – Part 3: Mechanisms using digital signature techniques (ISO/IEC 9798-3:1998+Cor 1:2009+Amd 1:2010+Cor 2:2012)  
- zamijenjena s: HRN ISO/IEC 9798-3:2019

HRN ISO/IEC 10118-3:2008 en  
Informacijska tehnologija – Sigurnosne tehnike – Hash-funkcije – 3. dio: Namjenske hash-funkcije (ISO/IEC 10118-3:2004)  
Information technology – Security techniques – Hash-functions – Part 3: Dedicated hash-functions (ISO/IEC 10118-3:2004)  
- zamijenjena s: HRN ISO/IEC 10118-3:2019

HRN ISO/IEC 10118-3:2008/A1:2008 en  
Informacijska tehnologija – Sigurnosne tehnike – Hash-funkcije – 3. dio: Namjenske hash-funkcije – AMANDMAN 1: Namjenska hash funkcija 8 (SHA-224) (ISO/IEC 10118-3:2004/Amd 1:2006)  
Information technology – Security techniques – Hash-functions – Part 3: Dedicated hash-functions – AMENDMENT 1: Dedicated Hash-Function 8 (SHA-224) (ISO/IEC 10118-3:2004/Amd 1:2006)  
- zamijenjena s: HRN ISO/IEC 10118-3:2019

HRN ISO/IEC 10118-3:2008/Ispr.1:2013 en  
Informacijska tehnologija – Sigurnosne tehnike – Hash-funkcije – 3. dio: Namjenske hash-funkcije (ISO/IEC 10118-3:2004/Corr.1:2011)  
Information technology – Security techniques – Hash-functions – Part 3: Dedicated hash-functions (ISO/IEC 10118-3:2004/Corr.1:2011)  
- zamijenjena s: HRN ISO/IEC 10118-3:2019

HRN ISO/IEC 14888-3:2017 en  
Informacijska tehnologija – Sigurnosne tehnike – Digitalni potpis s dopunom – 3. dio: Mehanizmi koji se temelje na diskretnom logaritmu (ISO/IEC 14888-3:2016, ispravljena verzija 2017-09)  
Information technology – Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms (ISO/IEC 14888-3:2016, Corrected version 2017-09)  
- zamijenjena s: HRN ISO/IEC 14888-3:2019

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

HRN EN 131-6:2015 en  
Ljestve – 6. dio: Teleskopske ljestve (EN 131-6:2015)  
Ladders – Part 6: Telescopic ladders (EN 131-6:2015)  
- zamijenjena s: HRN EN 131-6:2019

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

HRN EN 13200-1:2013 en  
Gledališta – 1. dio: Opće značajke prostora za gledatelje (EN 13200-1:2012)  
Spectator facilities – Part 1: General characteristics for spectator viewing area (EN 13200-1:2012)  
- zamijenjena s: HRN EN 13200-1:2019

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

HRN EN 1554:2013 en  
Transportne trake – Ispitivanje trenja na bubnjevima (EN 1554:2012)  
Conveyor belts – Drum friction testing (EN 1554:2012)  
- zamijenjena s: HRN EN ISO 20238:2019

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

HRS CEN/TS 14243:2010 en  
Materijali proizvedeni od istrošenih automobilskih guma – Specifikacija kategorija na osnovi dimenzija i nečistoća i metode za određivanje dimenzija i nečistoća (CEN/TS 14243:2010)  
Materials produced from end of life tyres – Specification of categories based on their dimension(s) and impurities and methods for determining their dimension(s) and impurities (CEN/TS 14243:2010)  
- zamijenjena s: HRN EN 14243-1:2019, HRN EN 14243-2:2019, HRN EN 14243-3:2019

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

HRN EN ISO 7886-4:2010 en  
Sterilne šprice za potkožnu injekciju za jednokratnu upotrebu – 4. dio: Šprice s funkcijom sprečavanja ponovne upotrebe (ISO 7886-4:2006; EN ISO 7886-4:2009)  
Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature (ISO 7886-4:2006; EN ISO 7886-4:2009)  
- zamijenjena s: HRN EN ISO 7886-4:2019

HRN EN ISO 11663:2015 en  
Kvaliteta dijalizacijske tekućine za hemodijalizu i srodne terapije (ISO 11663:2014; EN ISO 11663:2015)  
Quality of dialysis fluid for haemodialysis and related therapies (ISO 11663:2014; EN ISO 11663:2015)  
- zamijenjena s: HRN EN ISO 23500-5:2019

HRN EN ISO 15747:2012 en  
Plastični spremnici za intravenske injekcije (ISO 15747:2010; EN ISO 15747:2011)  
Plastic containers for intravenous injections (ISO 15747:2010; EN ISO 15747:2011)  
- zamijenjena s: HRN EN ISO 15747:2019

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

HRN EN 2023:2008 en  
Nizovi o zrakoplovstvu – Ležajevi, kuglasti klizni sa samopodmazujućim prstenom izrađeni od čelika otpornog na koroziju – Normalne serije – Dimenzije i opterećenja (EN 2023:1988+AC1:1988)  
Aerospace series – Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Normal series – Dimensions and loads (EN 2023:1988+AC1:1988)  
- zamijenjena s: HRN EN 2584:2019, HRN EN 2585:2019

HRN EN 2288:2008 en  
Nizovi o zrakoplovstvu – Čahure s prirubnicom izrađene od čelika otpornog na koroziju sa samopodmazujućom površinom – Dimenzije i opterećenja (EN 2288:1989)  
Aerospace series – Bushes, flanged corrosion resisting steel with self-lubricating liner – Dimensions and loads (EN 2288:1989)  
- zamijenjena s: HRN EN 2288:2019

HRN EN 2584:2008 en  
Nizovi o zrakoplovstvu – Ležajevi, kuglasti klizni sa samopodmazujućim prstenom izrađeni od čelika otpornog na koroziju – Uske serije – Visoko opterećeni pri temperaturi okoline – Dimenzije i opterećenja (EN 2584:2001)  
Aerospace series – Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Narrow series – Elevated load at ambient temperature – Dimensions and loads (EN 2584:2001)  
- zamijenjena s: HRN EN 2584:2019

HRN EN 2585:2008 en  
Nizovi o zrakoplovstvu – Ležajevi, kuglasti klizni sa samopodmazujućim prstenom izrađeni od čelika otpornog na koroziju – Široke serije – Visoko opterećeni pri temperaturi okoline – Dimenzije i opterećenja (EN 2585:2001)  
Aerospace series – Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Wide series – Elevated load at ambient temperature – Dimensions and loads (EN 2585:2001)  
- zamijenjena s: HRN EN 2585:2019

## HZN/TU U1, Opća elektrotehnika 1

HRN EN 60068-2-39:2008 en  
Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/AMD-ispitivanje: Kombinirano sekvencijsko ispitivanje hladno, niski tlak zraka i ispitivanje vlažnost - toplina (IEC 60068-2-39:1976; EN 60068-2-39:1999)  
Environmental testing – Part 2: Tests – Test Z/AMD: Combined sequential cold, low air pressure and damp heat test (IEC 60068-2-39:1976; EN 60068-2-39:1999)  
- zamijenjena s: HRN EN 60068-2-39:2016

HRN EN 60068-2-60:2008 en  
Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Ke ispitivanje: Korozijska ispitivanja na tekući miješani plin (IEC 60068-2-60:1995; EN 60068-2-60:1996)  
Environmental testing – Part 2: Tests – Test Ke: Flowing mixed gas corrosion test (IEC 60068-2-60:1995; EN 60068-2-60:1996)  
- zamijenjena s: HRN EN 60068-2-60:2016

HRN EN 60068-2-75:2008 en  
Ispitivanje utjecaja okoliša – Dio 2-75: Ispitivanja – Eh ispitivanje: Ispitivanja čekićem (IEC 60068-2-75:1997; EN 60068-2-75:1997)  
Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 60068-2-75:1997; EN 60068-2-75:1997)  
- zamijenjena s: HRN EN 60068-2-75:2015

HRN EN 60068-3-2:2008 en  
Ispitivanje utjecaja okoliša – 3. dio: Osnovne informacije – 2. sekcija: Kombinirano ispitivanje temperatura/niski tlak zraka (IEC 60068-3-2:1976; EN 60068-3-2:1999)  
Environmental testing – Part 3: Background information – Section 2: Combined temperature/low air pressure tests (IEC 60068-3-2:1976; EN 60068-3-2:1999)  
- zamijenjena s: HRN EN 60068-2-39:2016

HRN EN 60404-5:2008 en  
Magnetski materijali – 5. dio: Permanentni magnetski (magnetski tvrdi) materijali – Mjerne metode magnetskih svojstava (IEC 60404-5:1993+am1:2007; EN 60404-5:2007)  
Magnetic materials – Part 5: Permanent magnet (magnetically hard) materials – Methods of measurement of magnetic properties (IEC 60404-5:1993+am1:2007; EN 60404-5:2007)  
- zamijenjena s: HRN EN 60404-5:2015

HRN EN 60695-1-11:2011 en  
Ispitivanje opasnosti od požara – Dio 1-11: Upute za procjenu opasnosti od požara za elektrotehničke proizvode – Procjena opasnosti od požara (IEC 60695-1-11:2010; EN 60695-1-11:2010)  
Fire hazard testing – Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment (IEC 60695-1-11:2010; EN 60695-1-11:2010)  
- zamijenjena s: HRN EN 60695-1-11:2015

HRN EN 60695-2-11:2008 en  
Ispitivanje na opasnost od požara – Dio 2-11: Ispitne metode na bazi užarene/vruće žice – Ispitna metoda gorivosti užarene žice za krajnje proizvode (IEC 60695-2-11:2000; EN 60695-2-11:2001)  
Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (IEC 60695-2-11:2000; EN 60695-2-11:2001)  
- zamijenjena s: HRN EN 60695-2-11:2014

HRN EN 60695-10-2:2008 en  
Ispitivanje na opasnost od požara – Dio 10-2: Nenormalna toplina – Ispitivanje pritiskom kugle (IEC 60695-10-2:2003; EN 60695-10-2:2003)  
Fire hazard testing – Part 10-2: Abnormal heat – Ball pressure test (IEC 60695-10-2:2003; EN 60695-10-2:2003)  
- zamijenjena s: HRN EN 60695-10-2:2014

HRN EN 60695-11-20:2008 en  
Ispitivanje na opasnost od požara – Dio 11-20: Ispitni plamenovi – Ispitne metode s plamenovima snage 500 W (IEC 60695-11-20:1999+am1:2003; EN 60695-11-20:1999+am1:2003)  
Fire hazard testing – Part 11-20: Test flames – 500 W flame test methods (IEC 60695-11-20:1999+am1:2003; EN 60695-11-20:1999+am1:2003)  
- zamijenjena s: HRN EN 60695-11-20:2015

HRN EN 60695-11-2:2008 en  
Ispitivanje na opasnost od požara – Dio 11-2: Ispitni plamenovi – Nazivni pripremljeni ispitni plamen snage 1 kW – Uređaj, ispitni postupak za potvrđivanje i upute (IEC 60695-11-2:2003; EN 60695-11-2:2003)  
Fire hazard testing – Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-2:2003; EN 60695-11-2:2003)  
- zamijenjena s: HRN EN 60695-11-2:2014

HRN EN 61082-1:2008 en  
Priprema dokumentacije za uporabu u elektrotehnici – 1. dio: Pravila (IEC 61082-1:2006; EN 61082-1:2006)  
Preparation of documents used in electrotechnology – Part 1: Rules (IEC 61082-1:2006; EN 61082-1:2006)  
- zamijenjena s: HRN EN 61082-1:2015

HRN EN 61175:2008 en  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Označavanje signala (IEC 61175:2005; EN 61175:2005)  
Industrial systems, installations and equipment and industrial products – Designation of signals (IEC 61175:2005; EN 61175:2005)  
- zamijenjena s: HRN EN 61175-1:2015

HRN EN 61360-4:2008 en  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 4. dio: IEC-ova referentna zbirka standardnih tipnih podataka i razreda komponeneta (IEC 61360-4:2005; EN 61360-4:2005)  
Standard data element types with associated classification scheme for electric components – Part 4: IEC reference collection of standard data element types and component classes (IEC 61360-4:2005; EN 61360-4:2005)  
- bez zamjene

HRN EN 61360-4:2008/Ispr.1:2014 en  
Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne komponente – 4. dio: IEC-ova referentna zbirka standardnih tipnih podataka i razreda komponeneta (EN 61360-4:2005/Corr.1:2005)  
Standard data element types with associated classification scheme for electric components – Part 4: IEC reference collection of standard data element types and component classes (EN 61360-4:2005/Corr.1:2005)  
- bez zamjene

HRN EN 61788-4:2013 en  
Supravodljivost – 4. dio: Mjerenje omjera preostalog otpora – Omjer preostalog otpora Nb-Ti kompozitnih supravodiča (IEC 61788-4:2011; EN 61788-4:2011)  
Superconductivity – Part 4: Residual resistance ratio measurement – Residual resistance ratio of Nb-Ti composite superconductors (IEC 61788-4:2011; EN 61788-4:2011)  
- zamijenjena s: HRN EN 61788-4:2016

HRN EN 61788-11:2013 en  
Supravodljivost – 11. dio: Mjerenje omjera diferencijalnog otpora – Omjer diferencijalnog otpora Nb3Sn kompozitnih supravodiča (IEC 61788-11:2011; EN 61788-11:2011)  
Superconductivity – Part 11: Residual resistance ratio measurement – Residual resistance ratio of Nb3Sn composite superconductors (IEC 61788-11:2011; EN 61788-11:2011)  
- bez zamjene

HRN EN 80000-14:2011 en  
Veličine i jedinice – 14. dio: Telebiometrija za fiziologiju  
čovjeka (IEC 80000-14:2008; EN 80000-14:2009)  
Quantities and units – Part 14: Telebiometrics related to  
human physiology (IEC 80000-14:2008; EN 80000-14:2009)  
- bez zamjene

## 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.

U HZN e-Glasilu 10/2018, rubrika 1.4 Povučene hrvatske norme, pogrešno je povučena hrvatska norma HRN EN ISO 19136:2011 te je ona još uvijek na snazi.

### HZN/TU U1, *Opća elektrotehnika*

- **umjesto**

HRN EN 50574:2013

Zahtjevi s obzirom na prikupljanje, logistiku i postupanje za kućanske aparate na kraju životnog ciklusa koji sadrže hlapljive fluorouglikove ili hlapljive ugljikovodike (EN 50574:2012+AC:2012)

Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons (EN 50574:2012+AC:2012)

- **treba biti**

HRN EN 50574-1:2013

Zahtjevi s obzirom na prikupljanje, logistiku i postupanje za kućanske aparate na kraju životnog ciklusa koji sadrže hlapljive fluorouglikove ili hlapljive ugljikovodike (EN 50574-1:2012)

Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons (EN 50574-1:2012)

## 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 211, *Geoinformacije/Geomatika*

HRN EN ISO 19157:2014/A1:2018 en

Geoinformacije – Kvaliteta podataka – Amandman 1: Opisivanje kvalitete podataka pomoću pokrivenosti (ISO 19157:2013/Amd 1:2018; EN ISO 19157:2013/A1:2018)  
Geographic information – Data quality – Amendment 1: Describing data quality using coverages (ISO 19157:2013/Amd 1:2018; EN ISO 19157:2013/A1:2018)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

### HZN/TO 136, *Namještaj*

Sljedeće hrvatske norme objavljene na engleskome jeziku sada su dostupne i na hrvatskome jeziku:

HRN EN 1130-1:1998 hr-en pr-pp

Namještaj – Dječji krevetići i kolijevke za kućansku uporabu – 1. dio: Sigurnosni zahtjevi (EN 1130-1:1996)  
Furniture – Cribs and cradles for domestic use – Part 1: Safety requirements (EN 1130-1:1996)

HRN EN 1130-2:1998 hr-en pr-pp

Namještaj – Dječji krevetići i kolijevke za kućansku uporabu – 2. dio: Metode ispitivanja (EN 1130-2:1996)  
Furniture – Cribs and cradles for domestic use – Part 2: Test methods (EN 1130-2:1996)

### HZN/TO E76, *Sigurnost optičkoga zračenja i laserska oprema*

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

HRN EN 60825-1:2015 hr-en pr-pp

Sigurnost laserskih proizvoda – 1. dio: Razredba opreme i zahtjevi (IEC 60825-1:2014; EN 60825-1:2014)  
Safety of laser products – Part 1: Equipment classification and requirements (IEC 60825-1:2014; EN 60825-1:2014)

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

### 01.040.03 Usluge. Ustrojstvo poduzeća, upravljanje i kvaliteta. Administracija. Prijevoz. Sociologija. (Rječnici)

Međunarodna normizacija  
ISO

ISO/TR 21506:2018  
Project, programme and portfolio management – Vocabulary

### 01.040.11 Tehnologija zdravstvene zaštite (Rječnici)

Europska normizacija  
CEN

EN ISO 11979-1:2018  
Ophthalmic implants – Intraocular lenses – Part 1: Vocabulary (ISO 11979-1:2018)

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

Europska normizacija  
CEN

EN ISO 4007:2018  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2018)

Međunarodna normizacija  
ISO

ISO 20670:2018  
Water reuse – Vocabulary

### 01.040.25 Proizvodna tehnika (Rječnici)

Međunarodna normizacija  
ISO

ISO 18785-1:2018  
Friction stir spot welding – Aluminium – Part 1: Vocabulary

### 01.040.27 Prijenos energije i topline (Rječnici)

Međunarodna normizacija  
IEC

IEC 60050-617 AMD 3:2018  
International Electrotechnical Vocabulary (IEV) – Part 617: Organization/Market of electricity; Amendment 3

### 01.040.29 Elektrotehnika (Rječnici)

Međunarodna normizacija  
IEC

IEC 60050-617 AMD 3:2018  
International Electrotechnical Vocabulary (IEV) – Part 617: Organization/Market of electricity; Amendment 3

IEC 60076-21:2018  
Power transformers – Part 21: Standard requirements, terminology, and test code for step-voltage regulators

### 01.040.31 Elektronika (Rječnici)

Europska normizacija  
CEN

EN ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols (ISO 11145:2018)

Međunarodna normizacija  
IEC

IEC 60050-521 AMD 2:2018  
International Electrotechnical Vocabulary (IEV) – Part 521: Semiconductor devices and integrated circuits; Amendment 2

IEC 60050-523:2018  
International Electrotechnical Vocabulary (IEV) – Part 523: Micro-electromechanical devices

IEC 61967-1:2018  
Integrated circuits – Measurement of electromagnetic emissions – Part 1: General conditions and definitions

### 01.040.33 Telekomunikacije. Audiotehnika i videotehnika (Rječnici)

Međunarodna normizacija  
IEC

IEC 61967-1:2018  
Integrated circuits – Measurement of electromagnetic emissions – Part 1: General conditions and definitions

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

Međunarodna normizacija  
ISO

ISO/IEC 20924:2018  
Information technology – Internet of Things (IoT) – Vocabulary

### 01.040.43 Cestovna vozila (Rječnici)

Međunarodna normizacija  
ISO

ISO 26262-1:2018  
Road vehicles – Functional safety – Part 1: Vocabulary

### 01.040.53 Oprema za rukovanje materijalima (Rječnici)

Europska normizacija  
CEN

EN ISO 21183-2:2018  
Light conveyor belts – Part 2: List of equivalent terms (ISO 21183-2:2018)

Međunarodna normizacija  
ISO

ISO 7132 AMD 1:2018  
Earth-moving machinery – Dumpers – Terminology and commercial specifications; Amendment 1

ISO 21183-2:2018  
Light conveyor belts – Part 2: List of equivalent terms

### 01.040.83 Industrija gume i plastike (Rječnici)

Europska normizacija  
CEN

EN ISO 472:2013/A1:2018  
Plastics – Vocabulary – Amendment 1: Additional items (ISO 472:2013/Amd 1:2018)

## 01.075 Slovní simboli

### Međunarodna normizacija IEC

IEC 60027-2:2019  
Letter symbols to be used in electrical technology – Part 2:  
Telecommunications and electronics

## 01.080.10 Simboli za javne obavijesti

### Međunarodna normizacija ISO

ISO 7010 AMD 9:2018  
Graphical symbols – Safety colours and safety signs  
– Registered safety signs; Amendment 9

## 01.080.20 Grafički simboli za upotrebu na posebnoj opremi

### Međunarodna normizacija ISO

ISO 7010 AMD 9:2018  
Graphical symbols – Safety colours and safety signs  
– Registered safety signs; Amendment 9

## 01.080.40 Grafički simboli za upotrebu na električnim i elektroničkim crtežima, shemama, grafikonima i odgovarajućoj dokumentaciji o tehničkome proizvodu

### Europska normizacija CEN

EN ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment  
– Vocabulary and symbols (ISO 11145:2018)

## 01.100.20 Crteži u strojarstvu

### Međunarodna normizacija ISO

ISO 10110-18:2018  
Optics and photonics – Preparation of drawings for optical elements and systems – Part 18: Stress birefringence, bubbles and inclusions, homogeneity, and striae

## 01.110 Tehnička dokumentacija o proizvodu

### Europska normizacija CENELEC

EN IEC 63000:2018  
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016)

## 01.120 Normizacija. Opća pravila

### Međunarodna normizacija IEC

IECEX 01A:2018  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – An Informative Guide comparing various elements of both IECEX and ATEX

## 03.100.30 Upravljanje ljudskim resursima

### Međunarodna normizacija ISO

ISO 30414:2018  
Human resource management – Guidelines for internal and external human capital reporting

## 03.100.40 Istraživanje i razvoj

### Međunarodna normizacija ISO

ISO/TR 21506:2018  
Project, programme and portfolio management – Vocabulary

## 03.100.50 Proizvodnja. Upravljanje proizvodnjom

### Europska normizacija CENELEC

EN IEC 62239-1:2018  
Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan (IEC 62239-1:2018)

## 03.100.70 Sustavi upravljanja

### Europska normizacija CEN

EN 15399:2018  
Gas infrastructure – Safety Management System for Gas Networks with maximum operating pressure up to and including 16 bar

### Međunarodna normizacija ISO

ISO 21401:2018  
Tourism and related services – Sustainability management system for accommodation establishments – Requirements

ISO/IEC/IEEE 90003:2018  
Software engineering – Guidelines for the application of ISO 9001:2015 to computer software

## 03.120.10 Upravljanje kvalitetom i osiguravanje kvalitete

### Europska normizacija CEN

EN 9107:2018  
Aerospace series – Quality systems – Direct Delivery Authorization – Guidance for Aerospace Companies

## 03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti

### Europska normizacija CEN

EN ISO/IEC 17021-2:2018  
Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 2: Competence requirements for auditing and certification of environmental management systems (ISO/IEC 17021-2:2016)

EN ISO/IEC 17021-3:2018  
Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 3: Competence requirements for auditing and certification of quality management systems (ISO/IEC 17021-3:2017)

**Međunarodna normizacija  
IEC**

IEC CA 01 Edition 2.3:2018  
IEC Conformity Assessment Systems – Basic Rules

**03.180 Izobrazba**

**Međunarodna normizacija  
ISO**

ISO 29992:2018  
Assessment of outcomes of learning services – Guidance

**03.200.01 Slobodno vrijeme i turizam  
općenito**

**Međunarodna normizacija  
ISO**

ISO 21401:2018  
Tourism and related services – Sustainability management system for accommodation establishments – Requirements

**03.220.20 Cestovni prijevoz**

**Europska normizacija  
CEN**

EN ISO 14906:2018  
Electronic fee collection – Application interface definition for dedicated short-range communication (ISO 14906:2018)

EN ISO 16407-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-1 – Part 2: Abstract test suite (ISO 16407-2:2018)

EN ISO 16410-2:2018  
Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-3 – Part 2: Abstract test suite (ISO 16410-2:2018)

**Međunarodna normizacija  
ISO**

ISO/TR 21190:2018  
Electronic fee collection – Investigation of charging policies and technologies for future standardization

**07.060 Geologija. Meteorologija. Hidrologija**

**Europska normizacija  
CEN**

EN 17123:2018  
Water quality – Guidance on determining the degree of modification of the hydromorphological features of transitional and coastal waters

**07.120 Nanotehnologije**

**Međunarodna normizacija  
ISO**

ISO/TR 12885:2018  
Nanotechnologies – Health and safety practices in occupational settings

ISO/TR 20489:2018  
Nanotechnologies – Sample preparation for the characterization of metal and metal-oxide nano-objects in water samples

**11.040.01 Medicinska oprema općenito**

**Međunarodna normizacija  
IEC**

IEC/TR 60601-4-3:2018  
Medical electrical equipment – Part 4-3: Guidance and interpretation – Considerations of unaddressed safety aspects in the third edition of IEC 60601-1 and proposals for new requirements

**11.040.25 Šprice. Igle. Kateteri**

**Međunarodna normizacija  
ISO**

ISO 18250-1:2018  
Medical devices – Connectors for reservoir delivery systems for healthcare applications – Part 1: General requirements and common test methods

ISO 18250-7:2018  
Medical devices – Connectors for reservoir delivery systems for healthcare applications – Part 7: Connectors for intravascular infusion

**11.040.40 Implantati za kirurgiju, protetiku i ortotiku**

**Međunarodna normizacija  
ISO**

ISO 13779-2:2018  
Implants for surgery – Hydroxyapatite – Part 2: Thermally sprayed coatings of hydroxyapatite

ISO 13779-3:2018  
Implants for surgery – Hydroxyapatite – Part 3: Chemical analysis and characterization of crystallinity ratio and phase purity

ISO 13779-4:2018  
Implants for surgery – Hydroxyapatite – Part 4: Determination of coating adhesion strength

ISO 18192-1 AMD 1:2018  
Implants for surgery – Wear of total intervertebral spinal disc prostheses – Part 1: Loading and displacement parameters for wear testing and corresponding environmental conditions for test; Amendment 1

**11.040.50 Radiografska oprema**

**Međunarodna normizacija  
IEC**

IEC 62464-1:2018  
Magnetic resonance equipment for medical imaging – Part 1: Determination of essential image quality parameters

**11.040.55 Dijagnostička oprema**

**Međunarodna normizacija  
ISO**

ISO 80601-2-56 AMD 1:2018  
Medical electrical equipment – Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement; Amendment 1

**11.040.70 Oftalmološka oprema**

**Europska normizacija  
CEN**

EN ISO 11979-1:2018  
Ophthalmic implants – Intraocular lenses – Part 1: Vocabulary (ISO 11979-1:2018)

## 11.080.10 Sterilizacijska oprema

### Europska normizacija CEN

- EN ISO 15883-4:2018  
Washer-disinfectors – Part 4: Requirements and tests for washer-disinfectors employing chemical disinfection for thermolabile endoscopes (ISO 15883-4:2018)

## 11.080.20 Dezinficijensi i antiseptici

### Europska normizacija CEN

- EN 16777:2018  
Chemical disinfectants and antiseptics – Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area – Test method and requirements (phase 2/step 2)

## 11.080.30 Sterilizirani zavoji

### Europska normizacija CEN

- EN 868-5:2018  
Packaging for terminally sterilized medical devices – Part 5: Sealable pouches and reels of porous materials and plastic film construction – Requirements and test methods
- EN 868-8:2018  
Packaging for terminally sterilized medical devices – Part 8: Re-usable sterilization containers for steam sterilizers conforming to EN 285 – Requirements and test methods
- EN 868-9:2018  
Packaging for terminally sterilized medical devices – Part 9: Uncoated nonwoven materials of polyolefines – Requirements and test methods
- EN 868-10:2018  
Packaging for terminally sterilized medical devices – Part 10: Adhesive coated nonwoven materials of polyolefines – Requirements and test methods

## 11.100.10 In vitro dijagnostički ispitni sustavi

### Europska normizacija CEN

- EN ISO 20166-1:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 1: Isolated RNA (ISO 20166-1:2018)
- EN ISO 20166-2:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examinations processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 2: Isolated proteins (ISO 20166-2:2018)
- EN ISO 20184-1:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for frozen tissue – Part 1: Isolated RNA (ISO 20184-1:2018)
- EN ISO 20184-2:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for frozen tissue – Part 2: Isolated proteins (ISO 20184-2:2018)

### Međunarodna normizacija ISO

- ISO 20166-1:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 1: Isolated RNA

- ISO 20166-2:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examinations processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 2: Isolated proteins

- ISO 20166-3:2018  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 3: Isolated DNA

## 11.100.99 Ostale norme koje se odnose na laboratorijsku medicinu

### Međunarodna normizacija ISO

- ISO 15195:2018  
Laboratory medicine – Requirements for the competence of calibration laboratories using reference measurement procedures

## 11.120.10 Lijekovi

### Međunarodna normizacija ISO

- ISO 21315:2018  
Traditional Chinese medicine – Ganoderma lucidum fruiting body

## 11.180.10 Pomagala i prilagodbe za kretanje

### Međunarodna normizacija ISO

- ISO 7176-30:2018  
Wheelchairs – Part 30: Wheelchairs for changing occupant posture – Test methods and requirements

## 13.020.20 Ekogospodarstvo

### Europska normizacija CEN

- CWA 17354:2018  
Industrial Symbiosis: Core Elements and Implementation Approaches

## 13.020.40 Onečišćenje, nadzor nad onečišćenjem i zaštita od onečišćenja

### Međunarodna normizacija ISO

- ISO 14064-1:2018  
Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

## 13.030.01 Otpad općenito

### Europska normizacija CEN

- EN 16190:2018  
Soil, treated biowaste and sludge – Determination of dioxins and furans and dioxin-like polychlorinated biphenyls by gas chromatography with high resolution mass selective detection (HR GC-MS)

### 13.030.20 Tekući otpad. Mulj

Europska normizacija  
CEN

- EN 14701-4:2018  
Characterization of sludges – Filtration properties – Part 4: Determination of the drainability of flocculated sludge
- EN 17183:2018  
Characterization of sludge – Evaluation of sludge density

### 13.040.20 Atmosfera okoliša

Međunarodna normizacija  
ISO

- ISO 16000-23:2018  
Indoor air – Part 23: Performance test for evaluating the reduction of formaldehyde and other carbonyl compounds concentrations by sorptive building materials
- ISO 16000-24:2018  
Indoor air – Part 24: Performance test for evaluating the reduction of volatile organic compound concentrations by sorptive building materials

### 13.040.50 Emisije plinova iz prijevoznih sredstava

Međunarodna normizacija  
ISO

- ISO 16232:2018  
Road vehicles – Cleanliness of components and systems

### 13.060.01 Kvaliteta vode općenito

Međunarodna normizacija  
ISO

- ISO 20670:2018  
Water reuse – Vocabulary

### 13.060.10 Voda iz prirodnih izvora

Europska normizacija  
CEN

- EN 17123:2018  
Water quality – Guidance on determining the degree of modification of the hydromorphological features of transitional and coastal waters

### 13.060.45 Ispitivanje vode općenito (uključujući uzorkovanje)

Europska normizacija  
CEN

- EN 17075:2018  
Water quality – General requirements and performance test procedures for water monitoring equipment – Measuring devices

### 13.060.50 Ispitivanje voda na kemijske tvari

Europska normizacija  
CEN

- EN ISO 15681-2:2018  
Water quality – Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) – Part 2: Method by continuous flow analysis (CFA) (ISO 15681-2:2018)

### 13.060.60 Ispitivanje fizikalnih svojstava vode

Europska normizacija  
CEN

- EN ISO 11704:2018  
Water quality – Gross alpha and gross beta activity – Test method using liquid scintillation counting (ISO 11704:2018)

### 13.060.70 Ispitivanje bioloških svojstava vode

Europska normizacija  
CEN

- EN ISO 10634:2018  
Water quality – Preparation and treatment of poorly water-soluble organic compounds for the subsequent evaluation of their biodegradability in an aqueous medium (ISO 10634:2018)
- EN ISO 11348-1:2008/A1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 1: Method using freshly prepared bacteria – Amendment 1
- EN ISO 11348-2:2008/A1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 2: Method using liquid-dried bacteria – Amendment 1 (ISO 11348-2:2007/Amd 1:2018)
- EN ISO 11348-3:2008/A1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 3: Method using freeze-dried bacteria – Amendment 1 (ISO 11348-3:2007/Amd 1:2018)

Međunarodna normizacija  
ISO

- ISO 11348-1 AMD 1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 1: Method using freshly prepared bacteria; Amendment 1
- ISO 11348-2 AMD 1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 2: Method using liquid-dried bacteria; Amendment 1
- ISO 11348-3 AMD 1:2018  
Water quality – Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) – Part 3: Method using freeze-dried bacteria; Amendment 1

### 13.080.01 Kvaliteta tla i pedologija općenito

Europska normizacija  
CEN

- EN ISO 16133:2018  
Soil quality – Guidance on the establishment and maintenance of monitoring programmes (ISO 16133:2018)

Međunarodna normizacija  
ISO

- ISO 16133:2018  
Soil quality – Guidance on the establishment and maintenance of monitoring programmes



### 13.080.10 Kemijske značajke tla

#### Europska normizacija CEN

EN 16190:2018  
Soil, treated biowaste and sludge – Determination of dioxins and furans and dioxin-like polychlorinated biphenyls by gas chromatography with high resolution mass selective detection (HR GC-MS)

### 13.080.20 Fizikalna svojstva tla

#### Europska normizacija CEN

EN ISO 17892-10:2018  
Geotechnical investigation and testing – Laboratory testing of soil – Part 10: Direct shear tests (ISO 17892-10:2018)

### 13.080.40 Hidrološka svojstva tla

#### Europska normizacija CEN

EN ISO 15175:2018  
Soil quality – Characterization of contaminated soil related to groundwater protection (ISO 15175:2018)

#### Međunarodna normizacija ISO

ISO 15175:2018  
Soil quality – Characterization of contaminated soil related to groundwater protection

### 13.080.99 Ostale norme koje se odnose na kvalitetu tla

#### Europska normizacija CEN

EN 16907-2:2018  
Earthworks – Part 2: Classification of materials

### 13.100 Radna sigurnost. Industrijska higijena

#### Međunarodna normizacija ISO

ISO/TR 12885:2018  
Nanotechnologies – Health and safety practices in occupational settings

### 13.110 Sigurnost strojeva

#### Europska normizacija CEN

EN ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety (ISO 19296:2018)

#### Međunarodna normizacija ISO

ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety

ISO/TR 22100-4:2018  
Safety of machinery – Relationship with ISO 12100 – Part 4: Guidance to machinery manufacturers for consideration of related IT-security (cyber security) aspects

#### IEC

IEC 61496-3:2018  
Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse reflection (AOPDDR)

### 13.160 Utjecaj vibracija i udara na ljude

#### Europska normizacija CEN

CEN ISO/TR 19664:2018  
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 (ISO/TR 19664:2017)

### 13.180 Ergonomija

#### Europska normizacija CEN

EN ISO 20685-1:2018  
Ergonomics -3-D scanning methodologies for internationally compatible anthropometric databases – Part 1: Evaluation protocol for body dimensions extracted from 3-D body scans (ISO 20685-1:2018)

#### Međunarodna normizacija ISO

ISO 9241-500:2018  
Ergonomics of human-system interaction – Part 500: Ergonomic principles for the design and evaluation of environments of interactive systems

### 13.200 Zaštita od nezgoda i velikih nesreća

#### Međunarodna normizacija IEC

IEC 60479-1:2018  
Effects of current on human beings and livestock – Part 1: General aspects

### 13.220.20 Zaštita od požara

#### Europska normizacija CEN

EN 16925:2018  
Fixed firefighting systems – Automatic residential sprinkler systems – Design, installation and maintenance

#### Međunarodna normizacija ISO

ISO 21927-2:2018  
Smoke and heat control systems – Part 2: Specifications for natural smoke and heat exhaust ventilators

ISO 21927-5:2018  
Smoke and heat control systems – Part 5: Powered smoke exhaust systems – Requirements and design

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

#### Europska normizacija CEN

EN 17084:2018  
Railway applications – Fire protection on railway vehicles – Toxicity test of materials and components

## 13.220.50 Vatrootpornost građevnih materijala i elemenata

### Europska normizacija CEN

EN 13501-1:2018  
Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests

EN 13501-6:2018  
Fire classification of construction products and building elements – Part 6: Classification using data from reaction to fire tests on power, control and communication cables

### Međunarodna normizacija ISO

ISO 21925-1:2018  
Fire resistance tests – Fire dampers for air distribution systems – Part 1: Mechanical dampers

## 13.240 Zaštita od previsokoga tlaka

### Međunarodna normizacija ISO

ISO 4126-2:2018  
Safety devices for protection against excessive pressure – Part 2: Bursting disc safety devices

## 13.260 Zaštita od električnog udara. Rad pod naponom

### Međunarodna normizacija IEC

IEC 60479-1:2018  
Effects of current on human beings and livestock – Part 1: General aspects

IEC 60900 Corrigendum 1:2019  
Live working – Hand tools for use up to 1000 V AC and 1500 V DC; Corrigendum 1

## 13.300 Zaštita od opasnih tvari

### Europska normizacija CENELEC

EN IEC 63000:2018  
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016)

## 13.310 Zaštita od kriminala

### Europska normizacija CEN

EN 1300:2018  
Secure storage units – Classification for high security locks according to their resistance to unauthorized opening

CWA 17356:2018  
Interoperability of security systems for the surveillance of widezones

## 13.320 Alarmni sustavi i sustavi uzbunjivanja

### Europska normizacija CENELEC

HD 60364-5-56:2018  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (IEC 60364-5-56:2018)

## 13.340.01 Zaštitna oprema općenito

### Europska normizacija CEN

EN 16523-2+A1:2018  
Determination of material resistance to permeation by chemicals – Part 2: Permeation by potentially hazardous gaseous chemicals under conditions of continuous contact

## 13.340.10 Zaštitna odjeća

### Europska normizacija CEN

EN 1621-3:2018  
Motorcyclists' protective clothing against mechanical impact – Part 3: Motorcyclists' chest protectors – Requirements and test methods

## 13.340.20 Zaštitna oprema za glavu

### Europska normizacija CEN

EN ISO 4007:2018  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2018)

### Međunarodna normizacija ISO

ISO 18639-5:2018  
PPE ensembles for firefighters undertaking specific rescue activities – Part 5: Helmet

## 13.340.30 Uređaji za zaštitu dišnih organa

### Europska normizacija CEN

EN 148-1:2018  
Respiratory protective devices – Threads for facepieces – Part 1: Standard thread connection

## 13.340.40 Zaštita ruku i šaka

### Europska normizacija CEN

EN 388+A1:2018  
Protective gloves against mechanical risks

### Međunarodna normizacija ISO

ISO 23388:2018  
Protective gloves against mechanical risks

## 13.340.60 Zaštita od pada i klizanja

### Europska normizacija CEN

EN 363:2018  
Personal fall protection equipment – Personal fall protection systems

## 13.340.99 Ostala zaštitna oprema

### Europska normizacija CEN

EN 13374+A1:2018  
Temporary edge protection systems – Product specification – Test methods

## 17.040.10 Granične vrijednosti i prilagodbe

### Međunarodna normizacija ISO

ISO 14405-2:2018  
Geometrical product specifications (GPS) – Dimensional tolerancing – Part 2: Dimensions other than linear or angular sizes

## 17.040.30 Mjerni instrumenti

### Europska normizacija CEN

EN ISO 14978:2018  
Geometrical product specifications (GPS) – General concepts and requirements for GPS measuring equipment (ISO 14978:2018)

### Međunarodna normizacija ISO

ISO 14978:2018  
Geometrical product specifications (GPS) – General concepts and requirements for GPS measuring equipment

## 17.140.01 Akustička mjerenja i smanjenje buke općenito

### Europska normizacija CEN

EN ISO 9053-1:2018  
Acoustics – Determination of airflow resistance – Part 1: Static airflow method (ISO 9053-1:2018)

## 17.140.20 Buka koju proizvode strojevi i oprema

### Europska normizacija CEN

EN ISO 7779:2018  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2018)

EN ISO 17201-1:2018  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement (ISO 17201-1:2018)

### Međunarodna normizacija ISO

ISO 17201-1:2018  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement

## 17.160 Vibracije, udari i mjerenja vibracija

### Europska normizacija CEN

CEN ISO/TR 19664:2018  
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 (ISO/TR 19664:2017)

EN ISO 28927-4/A1:2018  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 4: Straight grinders – Amendment 1: Cupped wire brushes (ISO 28927-4:2010/Amd 1:2017)

## 17.180.30 Optički mjerni instrumenti

### Međunarodna normizacija ISO

ISO 17123-9:2018  
Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 9: Terrestrial laser scanners

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Europska normizacija CEN

EN IEC 60404-6:2018/AC:2018  
Magnetic materials – Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens (IEC 60404-6:2018/COR1:2018)

### Međunarodna normizacija ISO

IEC 62056-8-4:2018  
Electricity metering data exchange – the DLMS/COSEM suite – Part 8-4: Communication profiles for narrow-band OFDM PLC PRIME neighbourhood networks

## 17.240 Mjerenja zračenja

### Europska normizacija CEN

EN ISO 11704:2018  
Water quality – Gross alpha and gross beta activity – Test method using liquid scintillation counting (ISO 11704:2018)

## 19.040 Ispitivanje utjecaja okoliša

### Europska normizacija CENELEC

EN IEC 60721-2-4:2018/AC:2018  
Classification of environmental conditions – Part 2-4: Environmental conditions appearing in nature – Solar radiation and temperature (IEC 60721-2-4:2018)

EN IEC 60721-2-7:2018/AC:2018  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Fauna and flora (IEC 60721-2-7:2018)

EN IEC 60721-3-2:2018/AC:2018  
Classification of environmental conditions – Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and Handling (IEC 60721-3-2:2018/COR1:2018)

## 19.080 Električna i elektronička ispitivanja

### Međunarodna normizacija IEC

IEC 60746-4:2018  
Expression of performance of electrochemical analyzers – Part 4: Dissolved oxygen in water measured by membrane-covered amperometric sensors

## 21.100.01 Ležajevi općenito

### Europska normizacija CEN

EN 13001-3-4:2018  
Cranes – General design – Part 3-4: Limit states and proof of competence of machinery – Bearings

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija ISO

ISO 13012-1:2018  
Rolling bearings – Accessories for sleeve type linear ball bearings – Part 1: Boundary dimensions, geometrical product specifications (GPS) and tolerances for series 1 and 3

ISO 13012-2:2018  
Rolling bearings – Accessories for sleeve type linear ball bearings – Part 2: Boundary dimensions, geometrical product specifications (GPS) and tolerances for series 5

## 23.020.40 Kriogeničke posude

### Europska normizacija CEN

EN ISO 21012:2018  
Cryogenic vessels – Hoses (ISO 21012:2018)

## 23.040.10 Cijevi od lijevanog željeza i čelika

### Europska normizacija CEN

EN 15655-1:2018  
Ductile iron pipes, fittings and accessories – Requirements and test methods for organic linings of ductile iron pipes and fittings – Part 1: Polyurethane lining of pipes and fittings

## 23.040.20 Plastične cijevi

### Europska normizacija CEN

EN ISO 11299-1:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General (ISO 11299-1:2018)

EN ISO 11299-2:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 2: Lining with continuous pipes (ISO 11299-2:2018)

EN ISO 13257:2018  
Thermoplastics piping systems for non-pressure applications – Test method for resistance to elevated temperature cycling (ISO 13257:2018)

## 23.040.40 Metalne spojnice

### Europska normizacija CEN

EN 15655-1:2018  
Ductile iron pipes, fittings and accessories – Requirements and test methods for organic linings of ductile iron pipes and fittings – Part 1: Polyurethane lining of pipes and fittings

## 23.040.45 Plastične spojnice

### Europska normizacija CEN

EN ISO 11299-1:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General (ISO 11299-1:2018)

EN ISO 11299-2:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 2: Lining with continuous pipes (ISO 11299-2:2018)

EN ISO 11299-3:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes (ISO 11299-3:2018)

## 23.040.70 Crijeva i crijevni sklopovi

### Europska normizacija CEN

EN 1762:2018  
Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) – Specification

EN 13766:2018  
Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of liquid petroleum gas and liquefied natural gas – Specification

EN 16436-2:2018  
Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase – Part 2: Assemblies

## 23.100.40 Cijevovodi i spojnice

### Međunarodna normizacija ISO

ISO 6150:2018  
Pneumatic fluid power – Cylindrical quick-action couplings for maximum working pressures of 1 MPa, 1,6 MPa, and 2,5 MPa (10 bar, 16 bar and 25 bar) – Plug connecting dimensions, specifications, application guidelines and testing

## 23.100.60 Filtri, brtve i onečišćenje fluida

### Međunarodna normizacija ISO

ISO 3601-3 AMD 1:2018  
Fluid power systems – O-rings – Part 3: Quality acceptance criteria; Amendment 1

ISO 16889 AMD 1:2018  
Hydraulic fluid power – Filters – Multi-pass method for evaluating filtration performance of a filter element; Amendment 1

## 23.100.99 Ostali sastavni dijelovi sustava za hidraulični i pneumatski prijenos energije

### Međunarodna normizacija ISO

ISO 6301-2:2018  
Pneumatic fluid power – Compressed-air lubricators – Part 2: Test methods to determine the main characteristics to be included in supplier's literature

## 25.140.10 Pneumatski alati

### Europska normizacija CEN

EN ISO 28927-4:2010/A1:2018  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 4: Straight grinders – Amendment 1: Cupped wire brushes (ISO 28927-4:2010/Amd 1:2017)

## 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

### Međunarodna normizacija ISO

ISO 18785-3:2018  
Friction stir spot welding – Aluminium – Part 3: Qualification of welding personnel

ISO 24394:2018  
Welding for aerospace applications – Qualification test for welders and welding operators – Fusion welding of metallic components

## 25.160.10 Procesi zavarivanja

### Europska normizacija CEN

- EN 1011-3:2018  
Welding – Recommendations for welding of metallic materials – Part 3: Arc welding of stainless steels
- EN 1011-6:2018  
Welding – Recommendation for welding of metallic materials – Part 6: Laser beam welding
- EN 14587-1:2018  
Railway applications – Infrastructure – Flash butt welding of new rails – Part 1: R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails in a fixed plant

### Međunarodna normizacija ISO

- ISO 18785-4:2018  
Friction stir spot welding – Aluminium – Part 4: Specification and qualification of welding procedures
- ISO 18785-5:2018  
Friction stir spot welding – Aluminium – Part 5: Quality and inspection requirements

## 25.160.30 Oprema za zavarivanje

### Međunarodna normizacija ISO

- ISO 7289:2018  
Gas welding equipment – Quick-action couplings with shut-off valves for welding, cutting and allied processes

## 25.160.40 Zavareni spojevi i zavari

### Europska normizacija CEN

- EN 1708-2:2018  
Welding – Basic weld joint details in steel – Part 2: Non internal pressurized components
- EN ISO 20601:2018  
Non-destructive testing of welds – Ultrasonic testing – Use of automated phased array technology for thin-walled steel components (ISO 20601:2018)

### Međunarodna normizacija ISO

- ISO 18785-1:2018  
Friction stir spot welding – Aluminium – Part 1: Vocabulary
- ISO 18785-2:2018  
Friction stir spot welding – Aluminium – Part 2: Design of weld joints
- ISO 20601:2018  
Non-destructive testing of welds – Ultrasonic testing – Use of automated phased array technology for thin-walled steel components

## 25.220.10 Priprema površina

### Europska normizacija CEN

- EN ISO 8504-3:2018  
Preparation of steel substrates before application of paints and related products – Surface preparation methods – Part 3: Hand- and power-tool cleaning (ISO 8504-3:2018)

## 25.220.20 Površinska obrada

### Europska normizacija CEN

- EN ISO 3211:2018  
Anodizing of aluminium and its alloys – Assessment of resistance of anodic oxidation coatings to cracking by deformation (ISO 3211:2018)
- EN ISO 8994:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Grid method (ISO 8994:2018)

### Međunarodna normizacija ISO

- ISO 3211:2018  
Anodizing of aluminium and its alloys – Assessment of resistance of anodic oxidation coatings to cracking by deformation

## 25.220.40 Metalne prevlake

### Europska normizacija CEN

- EN ISO 6158:2018  
Metallic and other inorganic coatings – Electrodeposited coatings of chromium for engineering purposes (ISO 6158:2018)

## 27.010 Tehnika prijenosa energije i topline općenito

### Međunarodna normizacija IEC

- IEC 60050-617 AMD 3:2018  
International Electrotechnical Vocabulary (IEV) – Part 617: Organization/Market of electricity; Amendment 3
- IEC 62933-2-1 Corrigendum 1:2019  
Electrical energy storage (EES) systems – Part 2-1: Unit parameters and testing methods – General specification; Corrigendum 1

## 27.075 Tehnologije vodika

### Međunarodna normizacija ISO

- ISO 19882:2018  
Gaseous hydrogen – Thermally activated pressure relief devices for compressed hydrogen vehicle fuel containers

## 27.080 Dizalice topline

### Europska normizacija CEN

- EN 14825:2018  
Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling – Testing and rating at part load conditions and calculation of seasonal performance

## 27.120.30 Fisijski materijali i tehnologija nuklearnog goriva

### Međunarodna normizacija ISO

- ISO 18315:2018  
Nuclear energy – Guidance to the evaluation of measurement uncertainties of impurity in uranium solution by linear regression analysis

## 27.140 Hidroenergetika

### Međunarodna normizacija IEC

IEC 62097:2019  
Hydraulic machines, radial and axial – Methodology for performance transposition from model to prototype

## 27.190 Biološki izvori i alternativni izvori energije

### Europska normizacija CEN

EN ISO 20023:2018  
Solid biofuels – Safety of solid biofuel pellets – Safe handling and storage of wood pellets in residential and other small-scale applications (ISO 20023:2018)

## 29.020 Elektrotehnika općenito

### Međunarodna normizacija IEC

IEC 60479-1:2018  
Effects of current on human beings and livestock – Part 1: General aspects

## 29.030 Magnetni materijali

### Europska normizacija CENELEC

EN IEC 60404-6:2018/AC:2018  
Magnetic materials – Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens (IEC 60404-6:2018/COR1:2018)

EN IEC 60404-16:2018/AC:2018  
Magnetic materials – Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester (IEC 60404-16:2018/COR1:2018)

## 29.060.20 Kabeli

### Europska normizacija CEN

EN 13501-6:2018  
Fire classification of construction products and building elements – Part 6: Classification using data from reaction to fire tests on power, control and communication cables

## 29.100.01 Sastavni dijelovi za električnu opremu općenito

### Europska normizacija CENELEC

EN IEC 63000:2018  
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016)

## 29.120.70 Sklopnici (releji)

### Međunarodna normizacija IEC

IEC/IEEE 60255-118-1:2018  
Measuring relays and protection equipment – Part 118-1: Synchrophasor for power systems – Measurements

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

IEC 61439-7:2018  
Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations

## 29.140.99 Ostale norme koje se odnose na svjetiljke

### Europska normizacija CENELEC

EN IEC 62442-2:2018/AC:2018  
Energy performance of lamp controlgear – Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) – Method of measurement to determine the efficiency of controlgear (IEC 62442-2:2018)

## 29.160.40 Električni agregati

### Europska normizacija CENELEC

HD 60364-7-722:2018  
Low-voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supplies for electric vehicles (IEC 60364-7-722:2018, modified)

## 29.180 Transformatori. Prigušnice

### Međunarodna normizacija IEC

IEC 60076-21:2018  
Power transformers – Part 21: Standard requirements, terminology, and test code for step-voltage regulators

## 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

### Međunarodna normizacija IEC

IEC 60076-21:2018  
Power transformers – Part 21: Standard requirements, terminology, and test code for step-voltage regulators

## 29.220.20 Kiseli sekundarni članci i baterije

### Međunarodna normizacija IEC

IEC 62660-1:2018  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing

IEC 62660-2:2018  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing

## 29.240.01 Mreže za prijenos i razdiobu električne energije općenito

### Međunarodna normizacija IEC

IEC 60050-617 AMD 3:2018  
International Electrotechnical Vocabulary (IEV) – Part 617: Organization/Market of electricity; Amendment 3

## 29.240.20 Vodovi za prijenos i razdiobu električne energije

### Europska normizacija CENELEC

EN 50341-2-12:2018  
Overhead electrical lines exceeding AC 1 kV – Part 2-12: National Normative Aspects (NNA) for ICELAND (based on EN 50341-1:2012)

EN 50341-2-20:2018  
Overhead electrical lines exceeding AC 1 kV – Part 2-20: National Normative Aspects (NNA) for ESTONIA (based on EN 50341-1:2012)

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

### Europska normizacija CENELEC

CLC/TR 60079-32-1:2018  
Explosive atmospheres – Part 32-1: Electrostatic hazards, guidance (IEC/TR 60079-32-1:2013, IEC/TR 60079-32-1:2013/A1:2017)

### Međunarodna normizacija IEC

IECEX 01A:2018  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEX System) – An Informative Guide comparing various elements of both IECEx and ATEX

## 29.280 Oprema za električnu vuču

### Europska normizacija CENELEC

EN 50318:2018  
Railway applications – Current collection systems – Validation of simulation of the dynamic interaction between pantograph and overhead contact line

## 31.020 Elektronički sastavni dijelovi općenito

### Europska normizacija CENELEC

EN IEC 62239-1:2018  
Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan (IEC 62239-1:2018)

### Međunarodna normizacija IEC

IECQ 01A:2018  
IEC quality assessment system for electronic components (IECQ system) – IECQ Guide – Guidance for the use of the IECQ Logo and IECQ Mark of Conformity

IECQ 03-4:2018  
IEC Quality Assessment System for Electronic Components (IECQ System) – Rules of Procedure – Part 4: IECQ ADHP Scheme – Aerospace, Defense, and High Performance (ADHP) Component Management

IEC 60027-2:2019  
Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics

## 31.040.20 Potenciometri, promjenjivi otpornici

### Europska normizacija CENELEC

EN IEC 61051-1:2018  
Varistors for use in electronic equipment – Part 1: Generic specification (IEC 61051-1:2018)

## 31.080.01 Poluvodičke naprave općenito

### Međunarodna normizacija IEC

IEC 60050-521 AMD 2:2018  
International Electrotechnical Vocabulary (IEV) – Part 521: Semiconductor devices and integrated circuits; Amendment 2

## 31.080.99 Ostale poluvodičke naprave

### Međunarodna normizacija IEC

IEC 60050-523:2018  
International Electrotechnical Vocabulary (IEV) – Part 523: Micro-electromechanical devices

## 31.200 Integrirani krugovi. Mikroelektronika

### Međunarodna normizacija IEC

IEC 60050-521 AMD 2:2018  
International Electrotechnical Vocabulary (IEV) – Part 521: Semiconductor devices and integrated circuits; Amendment 2

IEC 61967-1:2018  
Integrated circuits – Measurement of electromagnetic emissions – Part 1: General conditions and definitions

## 31.220.01 Elektromehanički sastavni dijelovi općenito

### Europska normizacija CENELEC

EN IEC 63000:2018  
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016)

## 31.220.10 Utikačke i utičničke naprave. Konektori

### Međunarodna normizacija IEC

IEC 60512-23-3:2018  
Connectors for electrical and electronic equipment – Tests and measurements – Part 23-3: Screening and filtering tests – Test 23c: Shielding effectiveness of connectors and accessories – Line injection method

## 31.260 Optoelektronika. Laserska oprema

### Europska normizacija CEN

EN ISO 11145:2018  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols (ISO 11145:2018)

EN ISO 13694:2018  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution (ISO 13694:2018)

**Međunarodna normizacija  
IEC**

IEC 61496-3:2018  
Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse reflection (AOPDDR)

**33.020 Telekomunikacije općenito**

**Međunarodna normizacija  
IEC**

IEC 60027-2:2019  
Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics

**33.040.40 Mreže za prijenos podataka**

**Međunarodna normizacija  
IEC**

IEC 61850-8-2:2018  
Communication networks and systems for power utility automation – Part 8-2: Specific Communication Service Mapping (SCSM) – Mapping to Extensible Messaging Presence Protocol (XMPP)

**33.060.40 Kabelski distribucijski sustavi**

**Europska normizacija  
CENELEC**

EN IEC 60728-113:2018/AC:2018  
Cable networks for television signals, sound signals and interactive services – Part 113: Optical systems for broadcast signal transmissions loaded with digital channels only (IEC 60728-113:2018/COR1:2018)

**33.100.10 Zračenje**

**Međunarodna normizacija  
IEC**

IEC 61967-1:2018  
Integrated circuits – Measurement of electromagnetic emissions – Part 1: General conditions and definitions

**33.120.10 Koaksijalni kabeli. Valovodi**

**Međunarodna normizacija  
IEC**

IEC 61935-1-2:2018  
Specification for the testing of balanced and coaxial information technology cabling – Part 1-2: Installed balanced cabling as specified in ISO/IEC 11801 – Additional requirements for measurement of resistance unbalance with field test instrumentation

**33.140 Posebna mjerna oprema za upotrebu u telekomunikacijama**

**Međunarodna normizacija  
IEC**

IEC 62087-7:2018  
Audio, video, and related equipment – Methods of measurement for power consumption – Part 7: Computer monitors

**33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito**

**Europska normizacija  
CENELEC**

EN 60065:2014/AC:2018  
Audio, video and similar electronic apparatus – Safety requirements (IEC 60065:2014/COR3:2018)

EN IEC 60268-21:2018  
Sound system equipment – Part 21: Acoustical (output-based) measurements (IEC 60268-21:2018)

**Međunarodna normizacija  
IEC**

IEC 60065 Corrigendum 3:2018  
Audio, video and similar electronic apparatus – Safety requirements; Corrigendum 3

**33.160.10 Pojačala**

**Međunarodna normizacija  
IEC**

IEC 62087-7:2018  
Audio, video, and related equipment – Methods of measurement for power consumption – Part 7: Computer monitors

**33.180.10 Svjetlovodna vlakna i kabeli**

**Europska normizacija  
CENELEC**

EN IEC 60793-1-32:2018  
Optical fibres – Part 1-32: Measurement methods and test procedures – Coating strippability (IEC 60793-1-32:2018)

**Međunarodna normizacija  
IEC**

IEC 60793-2-50:2018  
Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres

**33.180.20 Svjetlovodne vezne naprave**

**Europska normizacija  
CENELEC**

EN IEC 60869-1:2018  
Fibre optic interconnecting devices and passive components – Fibre optic passive power control devices – Part 1: Generic specification (IEC 60869-1:2018)

**33.180.99 Ostala svjetlovodna oprema**

**Europska normizacija  
CENELEC**

EN IEC 62149-10:2018  
Fibre optic active components and devices – Performance standards – Part 10: Radio-over-fibre (RoF) transceivers for mobile fronthaul (IEC 62149-10:2018)

**33.200 Daljinsko upravljanje. Daljinsko mjerenje**

**Europska normizacija  
CENELEC**

EN IEC 62351-4:2018  
Power systems management and associated information exchange – Data and communications security – Part 4: Profiles including MMS and derivatives (IEC 62351-4:2018)



## Međunarodna normizacija IEC

IEC 61850-8-2:2018  
Communication networks and systems for power utility automation – Part 8-2: Specific Communication Service Mapping (SCSM) – Mapping to Extensible Messaging Presence Protocol (XMPP)

## 35.020 Informacijska tehnologija (IT) općenito

### Europska normizacija CEN

EN ISO 7779:2018  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2018)

### Međunarodna normizacija ISO

ISO/IEC 20924:2018  
Information technology – Internet of Things (IoT) – Vocabulary

## 35.030 Informatička sigurnost

### Europska normizacija CENELEC

EN IEC 62351-4:2018  
Power systems management and associated information exchange – Data and communications security – Part 4: Profiles including MMS and derivatives (IEC 62351-4:2018)

### Međunarodna normizacija ISO

ISO/IEC 29101:2018  
Information technology – Security techniques – Privacy architecture framework

## 35.040.40 Kodiranje audioinformacija, videoinformacija, multimedijskih i hipermedijskih informacija

### Međunarodna normizacija ISO

ISO/IEC 23001-12:2018  
Information technology – MPEG systems technologies – Part 12: Sample variants

ISO/IEC 23003-2:2018  
Information technology – MPEG audio technologies – Part 2: Spatial Audio Object Coding (SAOC)

## 35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji

### Međunarodna normizacija ISO

ISO/IEC 1539-1:2018  
Information technology – Programming languages – Fortran – Part 1: Base language

ISO/IEC 23270:2018  
Information technology – Programming languages – C#

## 35.080 Softver (programaska podrška)

### Međunarodna normizacija ISO

ISO/IEC/IEEE 24748-2:2018  
Systems and software engineering – Life cycle management – Part 2: Guidelines for the application of ISO/IEC/IEEE 15288 (System life cycle processes)

ISO/IEC/IEEE 26511:2018  
Systems and software engineering – Requirements for managers of information for users of systems, software, and services

ISO/IEC/IEEE 26515:2018  
Systems and software engineering – Developing information for users in an agile environment

ISO/IEC/IEEE 29148:2018  
Systems and software engineering – Life cycle processes – Requirements engineering

ISO/IEC/IEEE 90003:2018  
Software engineering – Guidelines for the application of ISO 9001:2015 to computer software

## 35.100.20 Sloj veze između podataka

### Europska normizacija CENELEC

EN IEC 61784-5-2:2018  
Industrial communication networks – Profiles – Part 5-2: Installation of fieldbuses – Installation profiles for CPF 2 (IEC 61784-5-2:2018)

EN IEC 61784-5-6:2018  
Industrial communication networks – Profiles – Part 5-6: Installation of fieldbuses – Installation profiles for CPF 6 (IEC 61784-5-6:2018)

EN IEC 61784-5-8:2018  
Industrial communication networks – Profiles – Part 5-8: Installation of fieldbuses – Installation profiles for CPF 8 (IEC 61784-5-8:2018)

EN IEC 61784-5-12:2018  
Industrial communication networks – Profiles – Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12 (IEC 61784-5-12:2018)

EN IEC 61784-5-18:2018  
Industrial communication networks – Profiles – Part 5-18: Installation of fieldbuses – Installation profiles for CPF 18 (IEC 61784-5-18:2018)

EN IEC 61784-5-20:2018  
Industrial communication networks – Profiles – Part 5-20: Installation of fieldbuses – Installation profiles for CPF 20 (IEC 61784-5-20:2018)

EN IEC 61784-5-21:2018  
Industrial communication networks – Profiles – Part 5-21: Installation of fieldbuses – Installation profiles for CPF 21 (IEC 61784-5-21:2018)

## 35.110 Umrežavanje

### Međunarodna normizacija IEC

IEC 62056-8-4:2018  
Electricity metering data exchange – the DLMS/COSEM suite – Part 8-4: Communication profiles for narrow-band OFDM PLC PRIME neighbourhood networks

## 35.160 Mikroprocesorski sustavi

### Europska normizacija CENELEC

- EN IEC 61784-5-2:2018  
Industrial communication networks – Profiles – Part 5-2:  
Installation of fieldbuses – Installation profiles for CPF 2  
(IEC 61784-5-2:2018)
- EN IEC 61784-5-6:2018  
Industrial communication networks – Profiles – Part 5-6:  
Installation of fieldbuses – Installation profiles for CPF 6  
(IEC 61784-5-6:2018)
- EN IEC 61784-5-8:2018  
Industrial communication networks – Profiles – Part 5-8:  
Installation of fieldbuses – Installation profiles for CPF 8  
(IEC 61784-5-8:2018)
- EN IEC 61784-5-12:2018  
Industrial communication networks – Profiles – Part 5-12:  
Installation of fieldbuses – Installation profiles for CPF 12  
(IEC 61784-5-12:2018)
- EN IEC 61784-5-18:2018  
Industrial communication networks – Profiles – Part 5-18:  
Installation of fieldbuses – Installation profiles for CPF 18  
(IEC 61784-5-18:2018)
- EN IEC 61784-5-20:2018  
Industrial communication networks – Profiles – Part 5-20:  
Installation of fieldbuses – Installation profiles for CPF 20  
(IEC 61784-5-20:2018)
- EN IEC 61784-5-21:2018  
Industrial communication networks – Profiles – Part 5-21:  
Installation of fieldbuses – Installation profiles for CPF 21  
(IEC 61784-5-21:2018)

## 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

### Međunarodna normizacija ISO

- ISO 9241-500:2018  
Ergonomics of human-system interaction – Part 500:  
Ergonomic principles for the design and evaluation of  
environments of interactive systems

## 35.210 Računarstvo u oblaku

### Međunarodna normizacija ISO

- ISO/IEC 19086-2:2018  
Cloud computing – Service level agreement (SLA) framework  
– Part 2: Metric model
- ISO/IEC TR 23186:2018  
Information technology – Cloud computing – Framework of  
trust for processing of multi-sourced data

## 35.240.01 Primjene informacijske tehnologije općenito

### Europska normizacija CEN

- CWA 17356:2018  
Interoperability of security systems for the surveillance of  
widezones

## 35.240.50 Primjene informacijske tehnologije u industriji

### Europska normizacija CENELEC

- EN IEC 61784-5-2:2018  
Industrial communication networks – Profiles – Part 5-2:  
Installation of fieldbuses – Installation profiles for CPF 2  
(IEC 61784-5-2:2018)
- EN IEC 61784-5-6:2018  
Industrial communication networks – Profiles – Part 5-6:  
Installation of fieldbuses – Installation profiles for CPF 6  
(IEC 61784-5-6:2018)
- EN IEC 61784-5-8:2018  
Industrial communication networks – Profiles – Part 5-8:  
Installation of fieldbuses – Installation profiles for CPF 8  
(IEC 61784-5-8:2018)
- EN IEC 61784-5-12:2018  
Industrial communication networks – Profiles – Part 5-12:  
Installation of fieldbuses – Installation profiles for CPF 12  
(IEC 61784-5-12:2018)
- EN IEC 61784-5-18:2018  
Industrial communication networks – Profiles – Part 5-18:  
Installation of fieldbuses – Installation profiles for CPF 18  
(IEC 61784-5-18:2018)
- EN IEC 61784-5-20:2018  
Industrial communication networks – Profiles – Part 5-20:  
Installation of fieldbuses – Installation profiles for CPF 20  
(IEC 61784-5-20:2018)
- EN IEC 61784-5-21:2018  
Industrial communication networks – Profiles – Part 5-21:  
Installation of fieldbuses – Installation profiles for CPF 21  
(IEC 61784-5-21:2018)
- EN IEC 62351-4:2018  
Power systems management and associated information  
exchange – Data and communications security – Part 4:  
Profiles including MMS and derivatives (IEC 62351-4:2018)

## 35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini

### Europska normizacija CEN

- EN 16157-1:2018  
Intelligent transport systems – DATEX II data exchange  
specifications for traffic management and information  
– Part 1: Context and framework
- EN 16157-3:2018  
Intelligent transport systems – DATEX II data exchange  
specifications for traffic management and information  
– Part 3: Situation Publication
- EN 16157-7:2018  
Intelligent transport systems – DATEX II data exchange  
specifications for traffic management and information  
– Part 7: Common data elements
- EN ISO 14906:2018  
Electronic fee collection – Application interface definition for  
dedicated short-range communication (ISO 14906:2018)
- EN ISO 16407-2:2018  
Electronic fee collection – Evaluation of equipment for  
conformity to ISO 17575-1 – Part 2: Abstract test suite  
(ISO 16407-2:2018)
- EN ISO 16410-2:2018  
Electronic fee collection – Evaluation of equipment for  
conformity to ISO 17575-3 – Part 2: Abstract test suite  
(ISO 16410-2:2018)

### Međunarodna normizacija ISO

- ISO/TR 21190:2018  
Electronic fee collection – Investigation of charging policies  
and technologies for future standardization

## 35.240.67 Primjene informacijske tehnologije u građevinarstvu

### Europska normizacija CEN

EN ISO 19650-1:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 1: Concepts and principles (ISO 19650-1:2018)

EN ISO 19650-2:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets (ISO 19650-2:2018)

### Međunarodna normizacija ISO

ISO 19650-1:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 1: Concepts and principles

ISO 19650-2:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets

## 35.240.99 Primjene IT-a u ostalim područjima

### Europska normizacija CEN

EN ISO 25119-1:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1: General principles for design and development (ISO 25119-1:2018)

EN ISO 25119-3:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3: Series development, hardware and software (ISO 25119-3:2018)

EN ISO 25119-4:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2018)

## 37.020 Optička oprema

### Međunarodna normizacija ISO

ISO 9211-8:2018  
Optics and photonics – Optical coatings – Part 8: Minimum requirements for coatings used for laser optics

ISO 10110-18:2018  
Optics and photonics – Preparation of drawings for optical elements and systems – Part 18: Stress birefringence, bubbles and inclusions, homogeneity, and striae

## 37.080 Primjene u preslikavanju dokumenata

### Međunarodna normizacija ISO

ISO/TR 22957:2018  
Document management – Analysis, selection and implementation of enterprise content management (ECM) systems

## 37.100.01 Grafička tehnologija općenito

### Međunarodna normizacija ISO

ISO 19302:2018  
Graphic technology – Colour conformity of printing workflows

## 37.100.10 Oprema za umnožavanje

### Međunarodna normizacija ISO

ISO 21632:2018  
Graphic technology – Determination of the energy consumption of digital printing devices including transitional and related modes

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija ISO

ISO 19206-1:2018  
Road vehicles – Test devices for target vehicles, vulnerable road users and other objects, for assessment of active safety functions – Part 1: Requirements for passenger vehicle rear-end targets

ISO 19206-2:2018  
Road vehicles – Test devices for target vehicles, vulnerable road users and other objects, for assessment of active safety functions – Part 2: Requirements for pedestrian targets

ISO/TR 21959-1:2018  
Road vehicles – Human performance and state in the context of automated driving – Part 1: Common underlying concepts

## 43.040.10 Električna i elektronička oprema

### Međunarodna normizacija ISO

ISO 16750-1:2018  
Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part 1: General

ISO 26262-1:2018  
Road vehicles – Functional safety – Part 1: Vocabulary

ISO 26262-2:2018  
Road vehicles – Functional safety – Part 2: Management of functional safety

ISO 26262-3:2018  
Road vehicles – Functional safety – Part 3: Concept phase

ISO 26262-4:2018  
Road vehicles – Functional safety – Part 4: Product development at the system level

ISO 26262-5:2018  
Road vehicles – Functional safety – Part 5: Product development at the hardware level

ISO 26262-6:2018  
Road vehicles – Functional safety – Part 6: Product development at the software level

ISO 26262-7:2018  
Road vehicles – Functional safety – Part 7: Production, operation, service and decommissioning

ISO 26262-8:2018  
Road vehicles – Functional safety – Part 8: Supporting processes

ISO 26262-9:2018  
Road vehicles – Functional safety – Part 9: Automotive safety integrity level (ASIL)-oriented and safety-oriented analyses

ISO 26262-10:2018  
Road vehicles – Functional safety – Part 10: Guidelines on ISO 26262

ISO 26262-11:2018  
Road vehicles – Functional safety – Part 11: Guidelines on application of ISO 26262 to semiconductors

ISO 26262-12:2018  
Road vehicles – Functional safety – Part 12: Adaptation of ISO 26262 for motorcycles

### 43.060.40 Sustavi goriva

#### Međunarodna normizacija ISO

ISO 19825:2018  
Road vehicles – Liquefied petroleum gas (LPG) refuelling connector

ISO 19882:2018  
Gaseous hydrogen – Thermally activated pressure relief devices for compressed hydrogen vehicle fuel containers

ISO 20766-1:2018  
Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 1: General requirements and definitions

ISO 20766-2:2018  
Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 2: Performance and general test methods

ISO 20766-3:2018  
Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 3: 80% stop valve

ISO 20766-4:2018  
Road vehicles – Liquefied petroleum gas (LPG) fuel system components – Part 4: Level indicator

### 43.100 Osobna vozila. Kamp-prikolice i lake prikolice

#### Međunarodna normizacija ISO

ISO 3888-1:2018  
Passenger cars – Test track for a severe lane-change manoeuvre – Part 1: Double lane-change

### 43.120 Električna cestovna vozila

#### Europska normizacija CENELEC

HD 60364-7-722:2018  
Low-voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supplies for electric vehicles (IEC 60364-7-722:2018, modified)

#### Međunarodna normizacija IEC

IEC 62660-1:2018  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing

IEC 62660-2:2018  
Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing

### 43.180 Oprema za dijagnostiku, održavanje i ispitivanje

#### Međunarodna normizacija ISO

ISO 3888-1:2018  
Passenger cars – Test track for a severe lane-change manoeuvre – Part 1: Double lane-change

ISO 16232:2018  
Road vehicles – Cleanliness of components and systems

ISO 17949 AMD 2:2018  
Impact test procedures for road vehicles – Seating and positioning procedures for anthropomorphic test devices – Procedure for the WorldSID 50th percentile male side-impact dummy in front outboard seating positions; Amendment 2

### 45.020 Željeznička tehnika općenito

#### Međunarodna normizacija ISO

ISO/TR 21245:2018  
Railway applications – Railway project planning process – Guidance on railway project planning

### 45.040 Materijali i sastavni dijelovi za željezničku tehniku

#### Europska normizacija CEN

EN 15595:2018  
Railway applications – Braking – Wheel slide protection

### 45.060.01 Željeznička tračnička vozila općenito

#### Europska normizacija CEN

EN 14067-4+A1:2018  
Railway applications – Aerodynamics – Part 4: Requirements and test procedures for aerodynamics on open track

EN 14363+A1:2018  
Railway applications – Testing and Simulation for the acceptance of running characteristics of railway vehicles – Running Behaviour and stationary tests

EN 15663+A1:2018  
Railway applications – Vehicle reference masses

EN 15877-1+A1:2018  
Railway applications – Marking on railway vehicles – Part 1: Freight wagons

EN 17023:2018  
Railway applications – Railway vehicle maintenance – Creation and modification of maintenance plan

EN 17084:2018  
Railway applications – Fire protection on railway vehicles – Toxicity test of materials and components

#### Međunarodna normizacija ISO

ISO 5948:2018  
Railway rolling stock material – Ultrasonic acceptance testing

### 45.060.10 Vučna vozila

#### Europska normizacija CEN

EN 16186-1+A1:2018  
Railway applications – Driver's cab – Part 1: Anthropometric data and visibility

EN 16186-3+A1:2018  
Railway applications – Driver's cab – Part 3: Design of displays

EN 50318:2018  
Railway applications – Current collection systems – Validation of simulation of the dynamic interaction between pantograph and overhead contact line

## 47.020.10 Trupovi i njihovi sastavni elementi

Međunarodna normizacija  
ISO

ISO 5894:2018  
Ships and marine technology – Manholes with bolted covers

## 49.020 Zrakoplovi i svemirska vozila općenito

Europska normizacija  
CEN

EN 9107:2018  
Aerospace series – Quality systems – Direct Delivery Authorization – Guidance for Aerospace Companies

Međunarodna normizacija  
IEC

IECQ 03-4:2018  
IEC Quality Assessment System for Electronic Components (IECQ System) – Rules of Procedure – Part 4: IECQ ADHP Scheme – Aerospace, Defense, and High Performance (ADHP) Component Management

## 49.025.05 Legure na bazi željeza općenito

Europska normizacija  
CEN

EN 2600:2018  
Aerospace series – Designation of metallic semi-finished products – Rules

## 49.025.10 Čelici

Europska normizacija  
CEN

EN 2450:2018  
Aerospace series – Steel 31Ni10 –  $1230 \text{ MPa} \leq R_m \leq 1420 \text{ MPa}$  – Bars –  $De \leq 40 \text{ mm}$

## 49.025.15 Neželjezni metali općenito

Europska normizacija  
CEN

EN 2600:2018  
Aerospace series – Designation of metallic semi-finished products – Rules

## 49.025.20 Aluminij

Europska normizacija  
CEN

EN 2715:2018  
Aerospace series – Macrographic examination of aluminium and aluminium alloy wrought products, forging stock and forgings

## 49.040 Premazivanje i srodni procesi koji se upotrebljavaju u zrakoplovnoj industriji

Europska normizacija  
CEN

EN 16602-70-14:2018  
Space product assurance – Corrosion

## 49.060 Zrakoplovna električna oprema i sustavi

Europska normizacija  
CEN

EN 4165-026:2018  
Aerospace series – Connector, electrical, rectangular, modular – Operating temperature  $175 \text{ }^\circ\text{C}$  continuous – Part 026: Accessories for single module connector – Product standard

EN 4611-003:2018  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 003: Tin plated copper – Operating temperatures, between  $-65 \text{ }^\circ\text{C}$  and  $135 \text{ }^\circ\text{C}$  – Single extruded wall for enclosed applications – UV laser printable – Product standard

EN IEC 62239-1:2018  
Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan (IEC 62239-1:2018)

## 49.080 Hidraulični i pneumatski sustavi i sastavni dijelovi za zrakoplove

Međunarodna normizacija  
ISO

ISO 9206:2018  
Aerospace – Fixed displacement hydraulic motors – General specifications

## 49.090 Oprema i instrumenti u zrakoplovu

Europska normizacija  
CENELEC

EN IEC 62239-1:2018  
Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan (IEC 62239-1:2018)

## 49.095 Oprema za putnike i kabine

Europska normizacija  
CEN

EN 4856:2018  
Rotorcraft – Emergency Breathing Systems (EBS) – Requirements, testing and marking

## 49.140 Svemirski sustavi i operacije

Europska normizacija  
CEN

EN 16602-70-14:2018  
Space product assurance – Corrosion

## 53.020.20 Dizalice

Europska normizacija  
CEN

EN 13001-3-4:2018  
Cranes – General design – Part 3-4: Limit states and proof of competence of machinery – Bearings

## 53.040.20 Sastavni dijelovi za prijenosne trake

Europska normizacija  
CEN

EN ISO 21183-2:2018  
Light conveyor belts – Part 2: List of equivalent terms (ISO 21183-2:2018)

**Međunarodna normizacija  
ISO**

ISO 21183-2:2018  
Light conveyor belts – Part 2: List of equivalent terms

**53.060 Industrijski prijevozni sustavi**

**Europska normizacija  
CEN**

EN 16842-3:2018  
Powered industrial trucks – Visibility – Test methods and verification – Part 3: Reach trucks up to and including 10000 kg capacity

**53.100 Strojevi za zemljane radove**

**Europska normizacija  
CEN**

EN ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety (ISO 19296:2018)

**Međunarodna normizacija  
ISO**

ISO 7132 AMD 1:2018  
Earth-moving machinery – Dumpers – Terminology and commercial specifications; Amendment 1

ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety

**55.140 Bačve. Buhnjevi. Kante**

**Europska normizacija  
CEN**

EN ISO 20848-3:2018  
Packaging – Plastics drums – Part 3: Plug bung closure systems for plastics drums with a nominal capacity of 113,6 l to 220 l (ISO 20848-3:2018)

**Međunarodna normizacija  
ISO**

ISO 20848-3:2018  
Packaging – Plastics drums – Part 3: Plug bung closure systems for plastics drums with a nominal capacity of 113,6 l to 220 l

**59.060.01 Tekstilna vlakna općenito**

**Međunarodna normizacija  
ISO**

ISO 1833-20:2018  
Textiles – Quantitative chemical analysis – Part 20: Mixtures of elastane with certain other fibres (method using dimethylacetamide)

**59.080.01 Tekstili općenito**

**Međunarodna normizacija  
ISO**

ISO 18254-2:2018  
Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 2: Method using NPLC

**59.080.50 Užad**

**Međunarodna normizacija  
ISO**

ISO 18692-1:2018  
Fibre ropes for offshore stationkeeping – Part 1: General specification

**59.080.70 Geotekstili**

**Europska normizacija  
CEN**

EN ISO 12957-1:2018  
Geosynthetics – Determination of friction characteristics – Part 1: Direct shear test (ISO 12957-1:2018)

EN ISO 13438:2018  
Geosynthetics – Screening test method for determining the resistance of geotextiles and geotextile-related products to oxidation (ISO 13438:2018)

**Međunarodna normizacija  
ISO**

ISO 12957-1:2018  
Geosynthetics – Determination of friction characteristics – Part 1: Direct shear test

ISO 13438:2018  
Geosynthetics – Screening test method for determining the resistance of geotextiles and geotextile-related products to oxidation

**59.140.30 Koža i krzno**

**Međunarodna normizacija  
ISO**

ISO 5398-4:2018  
Leather – Chemical determination of chromic oxide content – Part 4: Quantification by inductively coupled plasma (ICP)

ISO 17226-1:2018  
Leather – Chemical determination of formaldehyde content – Part 1: Method using high performance liquid chromatography

ISO 17226-2:2018  
Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis

**65.040.10 Nastambe, instalacije i oprema za stoku**

**Europska normizacija  
CENELEC**

EN IEC 60335-2-76:2018/AC:2018  
Household and similar electrical appliances – Safety – Part 2-76: Particular requirements for electric fence energizers (IEC 60335-2-76:2018/COR1:2018)

**65.060.01 Poljoprivredni strojevi i oprema općenito**

**Europska normizacija  
CEN**

EN ISO 18497:2018  
Agricultural machinery and tractors – Safety of highly automated agricultural machines – Principles for design (ISO 18497:2018)

EN ISO 25119-1:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1: General principles for design and development (ISO 25119-1:2018)

EN ISO 25119-3:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3: Series development, hardware and software (ISO 25119-3:2018)

EN ISO 25119-4:2018  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2018)

### **65.060.25 Oprema za čuvanje, pripremu i distribuciju gnojiva**

**Europska normizacija**  
**CEN**

EN 707:2018  
Agricultural machinery – Slurry tankers – Safety

### **65.060.40 Oprema za njegu biljaka**

**Međunarodna normizacija**  
**ISO**

ISO 4254-16:2018  
Agricultural machinery – Safety – Part 16: Portable agricultural grain augers

### **65.060.80 Oprema za šumarstvo**

**Europska normizacija**  
**CEN**

EN 17067:2018  
Forestry machinery – Safety requirements on radio remote controls

### **65.080 Gnojiva**

**Međunarodna normizacija**  
**ISO**

ISO 20977:2018  
Liming materials – Determination of size distribution by dry and wet sieving

ISO 22146:2018  
Carbonate liming materials – Determination of reactivity – Automatic titration method with citric acid

### **65.100.01 Pesticidi i ostale poljoprivredne kemikalije općenito**

**Međunarodna normizacija**  
**ISO**

ISO 257:2018  
Pesticides and other agrochemicals – Principles for the selection of common names

### **67.050 Opće metode ispitivanja i analize hrane**

**Europska normizacija**  
**CEN**

EN 17203:2018  
Foodstuffs – Determination of citrinin in food by liquid chromatography tandem mass spectrometry (LC-MS/MS)

### **67.060 Žitarice, mahunarke i proizvodi od žitarica i mahunarka**

**Europska normizacija**  
**CEN**

EN 15587:2018  
Cereal and cereal products – Determination of Besatz in wheat (*Triticum aestivum* L.), durum wheat (*Triticum durum* Desf.), rye (*Secale cereale* L.), triticale (*Triticosecale Wittmack* spp) and feed barley (*Hordeum vulgare* L.)

### **71.040.40 Kemijska analiza**

**Europska normizacija**  
**CEN**

EN ISO 6145-7:2018  
Gas analysis – Preparation of calibration gas mixtures using dynamic methods – Part 7: Thermal mass-flow controllers (ISO 6145-7:2018)

**Međunarodna normizacija**  
**ISO**

ISO 6145-7:2018  
Gas analysis – Preparation of calibration gas mixtures using dynamic methods – Part 7: Thermal mass-flow controllers

**IEC**

IEC 60746-4:2018  
Expression of performance of electrochemical analyzers – Part 4: Dissolved oxygen in water measured by membrane-covered amperometric sensors

### **71.040.50 Fizikalnokemijske metode analize**

**Međunarodna normizacija**  
**IEC**

IEC 60746-4:2018  
Expression of performance of electrochemical analyzers – Part 4: Dissolved oxygen in water measured by membrane-covered amperometric sensors

### **71.100.40 Površinski aktivne tvari**

**Međunarodna normizacija**  
**ISO**

ISO 4323:2018  
Soaps – Determination of chloride content – Potentiometric method

### **71.100.70 Kozmetika. Toaletne potrepštine**

**Europska normizacija**  
**CEN**

EN 17156:2018  
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

### **73.100.99 Ostala rudarska oprema**

**Europska normizacija**  
**CEN**

EN ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety (ISO 19296:2018)

**Međunarodna normizacija**  
**ISO**

ISO 19296:2018  
Mining – Mobile machines working underground – Machine safety

## 75.060 Prirodni plin

### Europska normizacija CEN

EN ISO 15112:2018  
Natural gas – Energy determination (ISO 15112:2018)

## 75.160.20 Tekuća goriva

### Europska normizacija CEN

EN 589:2018  
Automotive fuels – LPG – Requirements and test methods

## 75.160.40 Biogoriva

### Europska normizacija CEN

EN ISO 20023:2018  
Solid biofuels – Safety of solid biofuel pellets – Safe handling and storage of wood pellets in residential and other small-scale applications (ISO 20023:2018)

## 75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom

### Europska normizacija CEN

EN ISO 11299-1:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General (ISO 11299-1:2018)

EN ISO 11299-2:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 2: Lining with continuous pipes (ISO 11299-2:2018)

EN ISO 11299-3:2018  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes (ISO 11299-3:2018)

EN ISO 19277:2018  
Petroleum, petrochemical and natural gas industries – Qualification testing and acceptance criteria for protective coating systems under insulation (ISO 19277:2018)

### Međunarodna normizacija ISO

ISO 19277:2018  
Petroleum, petrochemical and natural gas industries – Qualification testing and acceptance criteria for protective coating systems under insulation

## 77.040.10 Mehaničko ispitivanje metala

### Europska normizacija CEN

EN ISO 6506-2:2018  
Metallic materials – Brinell hardness test – Part 2: Verification and calibration of testing machines (ISO 6506-2:2017)

## 77.040.20 Nerazorno ispitivanje metala

### Međunarodna normizacija ISO

ISO 5948:2018  
Railway rolling stock material – Ultrasonic acceptance testing

## 77.060 Korozija metala

### Europska normizacija CEN

EN ISO 8994:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Grid method (ISO 8994:2018)

## 77.080.01 Metali na bazi željeza općenito

### Međunarodna normizacija ISO

ISO/TR 9769:2018  
Steel and iron – Review of available methods of analysis

## 77.120.40 Nikal, krom i njihove legure

### Međunarodna normizacija ISO

ISO 23166:2018  
Nickel alloys – Determination of tantalum – Inductively coupled plasma optical emission spectrometric method

## 79.100 Pluto i proizvodi od pluta

### Europska normizacija CEN

EN 12104:2018  
Resilient floor coverings – Cork floor tiles – Specification

## 81.040.10 Sirovine i sirovo staklo

### Međunarodna normizacija ISO

ISO 12123:2018  
Optics and photonics – Specification of raw optical glass

## 81.080 Vatrostalni materijali

### Europska normizacija CEN

EN 993-1:2018  
Methods of test for dense shaped refractory products – Part 1: Determination of bulk density, apparent porosity and true porosity

EN 993-5:2018  
Methods of test for dense shaped refractory products – Part 5: Determination of cold crushing strength

EN 993-6:2018  
Methods of test for (dense) shaped refractory products – Part 6: Determination of modulus of rupture at ambient temperature

## 83.080.01 Plastika općenito

### Europska normizacija CEN

EN ISO 472:2013/A1:2018  
Plastics – Vocabulary – Amendment 1: Additional items (ISO 472:2013/Amd 1:2018)

EN ISO 2818:2019  
Plastics – Preparation of test specimens by machining (ISO 2818:2018)

CEN ISO/TR 18486:2018  
Plastics – Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance (ISO/TR 18486:2018)



## **Međunarodna normizacija ISO**

ISO 2818:2018  
Plastics – Preparation of test specimens by machining

ISO/TR 18486:2018  
Plastics – Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance

## **83.080.20 Plastomerni materijali**

### **Europska normizacija CEN**

EN ISO 294-2:2018  
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 2: Small tensile bars (ISO 294-2:2018)

EN ISO 4612:2018  
Plastics – Preparation of PVC pastes for test purposes – Planetary-mixer method (ISO 4612:2018)

### **Međunarodna normizacija ISO**

ISO 294-2:2018  
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 2: Small tensile bars

ISO 294-4:2018  
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 4: Determination of moulding shrinkage

ISO 4612:2018  
Plastics – Preparation of PVC pastes for test purposes – Planetary-mixer method

## **83.120 Ojačana plastika**

### **Međunarodna normizacija ISO**

ISO 21022:2018  
Test method for fibre-reinforced cementitious composites – Load-deflection curve using circular plates

## **83.140.10 Filmovi i ploče**

### **Europska normizacija CEN**

EN ISO 11502:2018  
Plastics – Film and sheeting – Determination of blocking resistance (ISO 11502:2018)

EN ISO 15527:2018  
Plastics – Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) – Requirements and test methods (ISO 15527:2018)

## **83.140.20 Laminatne ploče**

### **Europska normizacija CEN**

EN 438-2+A1:2018  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 2: Determination of properties

## **83.140.40 Crijeva**

### **Europska normizacija CEN**

EN ISO 21012:2018  
Cryogenic vessels – Hoses (ISO 21012:2018)

## **83.140.50 Brtve**

### **Međunarodna normizacija ISO**

ISO 3601-3 AMD 1:2018  
Fluid power systems – O-rings – Part 3: Quality acceptance criteria; Amendment 1

## **83.140.99 Ostali gumeni i plastični proizvodi**

### **Europska normizacija CEN**

EN 513:2018  
Plastics – Poly(vinyl chloride) (PVC) based profiles – Determination of the resistance to artificial weathering

## **85.040 Celuloza**

### **Međunarodna normizacija ISO**

ISO 21400:2018  
Pulp – Determination of cellulose nanocrystal sulfur and sulfate half-ester content

## **85.080.30 Karton**

### **Europska normizacija CEN**

EN ISO 7263-2:2019  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 2: B-flute (ISO 7263-2:2018)

### **Međunarodna normizacija ISO**

ISO 7263-1:2018  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 1: A-flute

ISO 7263-2:2018  
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 2: B-flute

## **87.040 Boje i lakovi**

### **Europska normizacija CEN**

EN ISO 2812-2:2018  
Paints and varnishes – Determination of resistance to liquids – Part 2: Water immersion method (ISO 2812-2:2018)

## **87.060.20 Veziva**

### **Europska normizacija CEN**

EN ISO 150:2018  
Raw, refined and boiled linseed oil for paints and varnishes – Specifications and methods of test (ISO 150:2018)

EN ISO 3681:2018  
Binders for paints and varnishes – Determination of saponification value – Titrimetric method (ISO 3681:2018)

## **87.060.99 Ostali sastojci boja**

### **Europska normizacija CEN**

EN ISO 4619:2018  
Driers for paints and varnishes (ISO 4619:2018)

## 87.100 Oprema za premazivanje bojom

### Europska normizacija CEN

- EN 16985:2018  
Spray booths for organic coating material – Safety requirements

## 91.010.01 Građevinska industrija općenito

### Europska normizacija CEN

- EN ISO 19650-1:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – 1Part 1: Concepts and principles (ISO 19650-1:2018)
- EN ISO 19650-2:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets (ISO 19650-2:2018)

### Međunarodna normizacija ISO

- ISO 19650-1:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 1: Concepts and principles
- ISO 19650-2:2018  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets

## 91.060.10 Zidovi. Pregrade. Pročelja

### Europska normizacija CEN

- EN 17146:2018  
Determination of the strength of infill supports – Test method and requirements

## 91.060.30 Stropovi. Podovi. Stubišta

### Europska normizacija CEN

- EN 16929:2018  
Test methods – Timber floors – Determination of vibration properties

## 91.060.40 Dimnjaci, okna, kanali

### Europska normizacija CEN

- EN 16475-3+A1:2018  
Chimneys – Accessories – Part 3: Draught regulators, standstill opening devices and combined secondary air devices – Requirements and test methods

## 91.080.20 Drvene konstrukcije

### Europska normizacija CEN

- EN 16929:2018  
Test methods – Timber floors – Determination of vibration properties

## 91.100.10 Cement. Gips. Vapno. Mort

### Europska normizacija CEN

- EN 196-6:2018  
Methods of testing cement – Part 6: Determination of fineness
- EN 196-11:2018  
Methods of testing cement – Part 11: Heat of hydration – Isothermal Conduction Calorimetry method

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

- EN 12390-10:2018  
Testing hardened concrete – Part 10: Determination of the carbonation resistance of concrete at atmospheric levels of carbon dioxide
- CEN/TR 15868:2018  
Survey on provisions valid in the place of use used in conjunction with the European concrete standard and developing practice

### Međunarodna normizacija ISO

- ISO 21022:2018  
Test method for fibre-reinforced cementitious composites – Load-deflection curve using circular plates

## 91.100.60 Materijali za toplinsku i zvučnu izolaciju

### Europska normizacija CEN

- EN ISO 9053-1:2018  
Acoustics – Determination of airflow resistance – Part 1: Static airflow method (ISO 9053-1:2018)

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Europska normizacija CEN

- EN 14825:2018  
Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling – Testing and rating at part load conditions and calculation of seasonal performance
- EN 17192:2018  
Ventilation for buildings – Ductwork – Non-metallic ductwork – Requirements and test methods
- EN ISO 21083-1:2018  
Test method to measure the efficiency of air filtration media against spherical nanomaterials – Part 1: Size range from 20 nm to 500 nm (ISO 21083-1:2018)

## 91.140.40 Sustavi opskrbe plinom

### Europska normizacija CEN

- EN 15399:2018  
Gas infrastructure – Safety Management System for Gas Networks with maximum operating pressure up to and including 16 bar

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

- EN 50470-1:2006/A1:2018  
Electricity metering equipment (a.c.) – Part 1: General requirements, tests and test conditions – Metering equipment (class indexes A, B and C)
- EN 50470-2:2006/A1:2018  
Electricity metering equipment (a.c.) – Part 2: Particular requirements – Electromechanical meters for active energy (class indexes A and B)
- EN 50470-3:2006/A1:2018  
Electricity metering equipment (a.c.) – Part 3: Particular requirements – Static meters for active energy (class indexes A, B and C)

### Harmonizirani dokumenti CEN-CENELEC-a

- HD 60364-5-56:2018  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (IEC 60364-5-56:2018)

### Međunarodna normizacija IEC

- IEC 62056-8-4:2018  
Electricity metering data exchange – the DLMS/COSEM suite – Part 8-4: Communication profiles for narrow-band OFDM PLC PRIME neighbourhood networks

## 91.140.65 Oprema za grijanje vode

### Europska normizacija CEN

- EN 13203-2:2018  
Gas-fired domestic appliances producing hot water – Part 2: Assessment of energy consumption
- EN 13203-5:2018  
Gas-fired domestic appliances producing hot water – Part 5: Assessment of energy consumption of gas fired appliances combined with electrical heat pump

## 91.140.70 Sanitarne instalacije

### Europska normizacija CEN

- EN 17125:2018  
Domestic spas/whirlpool spas/hot tubs – Safety requirements and test methods

## 91.140.80 Odvodni sustavi

### Europska normizacija CEN

- EN ISO 13257:2018  
Thermoplastics piping systems for non-pressure applications – Test method for resistance to elevated temperature cycling (ISO 13257:2018)

## 91.160.01 Rasvjeta općenito

### Europska normizacija CEN

- EN 12193:2018  
Light and lighting – Sports lighting
- EN 17037:2018  
Daylight in buildings

## 91.220 Građevinska oprema

### Europska normizacija CEN

- EN 13374+A1:2018  
Temporary edge protection systems – Product specification – Test methods

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Europska normizacija CEN

- EN 12716:2018  
Execution of special geotechnical work – Jet grouting
- EN 16907-1:2018  
Earthworks – Part 1: Principles and general rules
- EN 16907-2:2018  
Earthworks – Part 2: Classification of materials
- EN 16907-3:2018  
Earthworks – Part 3: Construction procedures
- EN 16907-4:2018  
Earthworks – Part 4: Soil treatment with lime and/or hydraulic binders
- EN 16907-5:2018  
Earthworks – Part 5: Quality control
- EN 16907-6:2018  
Earthworks – Part 6: Land reclamation earthworks using dredged hydraulic fill
- EN ISO 17892-10:2018  
Geotechnical investigation and testing – Laboratory testing of soil – Part 10: Direct shear tests (ISO 17892-10:2018)
- EN ISO 22477-1:2018  
Geotechnical investigation and testing – Testing of geotechnical structures – Part 1: Testing of piles: static compression load testing (ISO 22477-1:2018)

## 93.080.20 Materijali za gradnju cesta

### Europska normizacija CEN

- EN 12697-3+A1:2018  
Bituminous mixtures – Test methods – Part 3: Bitumen recovery: Rotary evaporator
- EN 12697-5:2018  
Bituminous mixtures – Test methods – Part 5: Determination of the maximum density
- EN 12697-8:2018  
Bituminous mixtures – Test methods – Part 8: Determination of void characteristics of bituminous specimens
- EN 12697-30:2018  
Bituminous mixtures – Test methods – Part 30: Specimen preparation by impact compactor
- EN 13880-8:2018  
Hot applied joint sealants – Part 8: Test method for the determination of the change in weight of fuel resistance joint sealants after fuel immersion

## 93.080.30 Cestovna oprema i instalacije

### Europska normizacija CEN

- EN 1794-1+AC:2018  
Road traffic noise reducing devices – Non-acoustic performance – Part 1: Mechanical performance and stability requirements

## 93.100 Gradnja željezničkih pruga

### Europska normizacija CEN

- EN 14587-1:2018  
Railway applications – Infrastructure – Flash butt welding of new rails – Part 1: R220, R260, R260Mn, R320Cr, R350HT, R350LHT, R370CrHT and R400HT grade rails in a fixed plant
- EN 16729-4:2018  
Railway applications – Infrastructure – Non-destructive testing on rails in track – Part 4: Qualification of personnel for non-destructive testing on rails

## 95.020 Vojna tehnika. Vojni poslovi. Oružje

### Europska normizacija CEN

- EN ISO 17201-1:2018  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement (ISO 17201-1:2018)

### Međunarodna normizacija ISO

- ISO 17201-1:201  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement

## 97.060 Praonički uređaji

### Europska normizacija CEN

- EN 17116-2:2018  
Specifications for industrial laundry machines – Definitions and testing of capacity and consumption characteristics – Part 2: Batch drying tumblers
- EN 60335-2-11:2010/A2:2018  
Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers (IEC 60335-2-11:2008/A2:2015, modified)

## 97.080 Uređaji za čišćenje podova

### Europska normizacija CENELEC

- EN 62784:2018  
Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts – Particular requirements (IEC 62784:2017)

## 97.130.20 Trgovački rashladni uređaji

### Europska normizacija CEN

- EN 16855-2:2018  
Walk-in cold rooms – Definition, thermal insulation performance and test methods – Part 2: Customized cold rooms

## 97.150 Netekstilni podni prekrivači

### Europska normizacija CEN

- EN 1081:2018  
Resilient, laminate and modular multilayer floor coverings – Determination of the electrical resistance
- EN 1307+A3:2018  
Textile floor coverings – Classification
- EN 12104:2018  
Resilient floor coverings – Cork floor tiles – Specification

- EN 14836:2018  
Surfaces for sports areas – Synthetic surfaces for outdoor sports areas – Test method for artificial weathering

- EN 17142:2018  
Modular multilayer floor coverings – Elements with a wood powder based surface layer – Specifications, requirements and test methods

- EN ISO 24342:2018  
Resilient and textile floor-coverings – Determination of side length, edge straightness and squareness of tiles (ISO 24342:2018)

### Međunarodna normizacija ISO

- ISO 4918 AMD 1:2018  
Resilient, textile and laminate floor coverings – Castor chair test – Amendment 1: Surface hardness

## 97.180 Razna kućanska i gospodarska oprema

### Međunarodna normizacija ISO

- ISO 9994:2018  
Lighters – Safety specifications
- ISO 22702:2018  
Utility lighters – Safety specifications

## 97.190 Oprema za djecu

### Europska normizacija CEN

- EN 1888-1:2018  
Child use and care articles – Wheeled child conveyances – Part 1: Pushchairs and prams
- EN 1888-2:2018  
Child care articles – Wheeled child conveyances – Part 2: Pushchairs for children above 15 kg up to 22 kg
- EN 17072:2018  
Child care articles – Bath tubs, stands and non-standalone bathing aids – Safety requirements and test methods

## 97.195 Umjetnički i obrtnički predmeti

### Europska normizacija CEN

- EN 17138:2018  
Conservation of Cultural Heritage – Methods and materials for cleaning porous inorganic materials

## 97.200.40 Igrališta

### Europska normizacija CEN

- EN 1176-4+AC:2019  
Playground equipment and surfacing – Part 4: Additional specific safety requirements and test methods for cableways
- EN 1176-6+AC:2019  
Playground equipment and surfacing – Part 6: Additional specific safety requirements and test methods for rocking equipment
- EN 1177+AC:2019  
Impact attenuating playground surfacing – Methods of test for determination of impact attenuation

## **97.200.50 Igračke**

### **Europska normizacija CEN**

- EN 71-14:2018  
Safety of toys – Part 14: Trampolines for domestic use

## **97.220.10 Sportski objekti**

### **Europska normizacija CEN**

- EN 12193:2018  
Light and lighting – Sports lighting
- EN 14836:2018  
Surfaces for sports areas – Synthetic surfaces for outdoor sports areas – Test method for artificial weathering
- EN 15288-1:2018  
Swimming pools for public use – Part 1: Safety requirements for design
- EN 15288-2:2018  
Swimming pools for public use – Part 2: Safety requirements for operation
- EN 17164:2018  
Climbing/bouldering walls for use in the water area of swimming pools of public use – Safety and operational requirements
- EN ISO 17201-1:2018  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement (ISO 17201-1:2018)

### **Međunarodna normizacija ISO**

- ISO 17201-1:2018  
Acoustics – Noise from shooting ranges – Part 1: Determination of muzzle blast by measurement

## **97.220.30 Oprema za sportske dvorane**

### **Europska normizacija CEN**

- EN 913:2018  
Gymnastic equipment – General safety requirements and test methods

## **97.220.40 Oprema za sportove na otvorenom i sportove na vodi**

### **Europska normizacija CEN**

- EN 959:2018  
Mountaineering equipment – Rock anchors – Safety requirements and test methods
- EN 12277:2018  
Mountaineering equipment – Harnesses – Safety requirements and test methods