

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

12/2018    prosinac, 2018.

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 646:2018 en pr  
Papir i karton koji dolaze u kontakt s prehrambenim proizvodima – Određivanje postojanosti boje obojenog papira i kartona (EN 646:2018)  
Paper and board intended to come into contact with foodstuffs – Determination of colour fastness of dyed paper and board (EN 646:2018)

HRN EN 648:2018 en pr  
Papir i karton koji dolaze u kontakt s prehrambenim proizvodima – Određivanje postojanosti papira i kartona bijeljenih fluorescentnim optičkim bjelilima (EN 648:2018)  
Paper and board intended to come into contact with foodstuffs – Determination of the fastness of fluorescent whitened paper and board (EN 648:2018)

HRN EN 12498:2018 en pr  
Papir i karton – Papir i karton koji dolazi u kontakt s prehrambenim proizvodima – Određivanje kadmija, kroma i olova u vodenom ekstraktu (EN 12498:2018)  
Paper and board – Paper and board intended to come into contact with foodstuffs – Determination of cadmium, chromium and lead in an aqueous extract (EN 12498:2018)

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

HRN EN 1647:2018 en pr  
Vozila za odmor – Pokretni domovi za stanovanje – Smještajni zahtjevi koji se odnose na zdravlje i sigurnost (EN 1647:2018)  
Leisure accommodation vehicles – Caravan holiday homes – Habitation requirements relating to health and safety (EN 1647:2018)

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

HRN EN 589:2018 en pr  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja (EN 589:2018)  
Automotive fuels – LPG – Requirements and test methods (EN 589:2018)

HRN EN ISO 12156-1:2018 en pr  
Dizelsko gorivo – Ocjenjivanje mazivosti uporabom vibracijskog uređaja visoke frekvencije (HFRR) – 1. dio: Ispitna metoda (ISO 12156-1:2018; EN ISO 12156-1:2018)  
Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method (ISO 12156-1:2018; EN ISO 12156-1:2018)

HRN EN 16709:2018 en pr  
Goriva za motorna vozila – Dizelsko gorivo s velikom količinom FAME (B20 ili B30) – Zahtjevi i metode ispitivanja (EN 16709:2015+A1:2018)  
Automotive fuels – High FAME diesel fuel (B20 and B30) – Requirements and test methods (EN 16709:2015+A1:2018)

HRN EN 16734:2018 en pr  
Goriva za motorna vozila – Dizelsko gorivo B10 – Zahtjevi i metode ispitivanja (EN 16734:2016+A1:2018)  
Automotive fuels – Automotive B10 diesel fuel – Requirements and test methods (EN 16734:2016+A1:2018)

### HZN/TO 43, *Akustika*

HRN EN ISO 4869-1:2018 en pr  
Akustika – Štitnici sluha – 1. dio: Subjektivna metoda mjerenja gušenja zvuka (ISO 4869-1:2018; EN ISO 4869-1:2018)  
Acoustics – Hearing protectors – Part 1: Subjective method for the measurement of sound attenuation (ISO 4869-1:2018; EN ISO 4869-1:2018)

HRN EN ISO 4869-2:2018 en pr  
Akustika – Štitnici sluha – 2. dio: Procjena efektivnih A-vrednovanih razina zvučnoga tlaka pri nošenju štitnika sluha (ISO 4869-2:2018; EN ISO 4869-2:2018)  
Acoustics – Hearing protectors – Part 2: Estimation of effective A-weighted sound pressure levels when hearing protectors are worn (ISO 4869-2:2018; EN ISO 4869-2:2018)

HRN EN ISO 7779:2018 en pr  
Akustika – Mjerenje buke informatičke i telekomunikacijske opreme (ISO 7779:2018; EN ISO 7779:2018)  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2018; EN ISO 7779:2018)

HRN EN ISO 9053-1:2018 en pr  
Akustika – Određivanje otpora strujanju zraka – 1. dio: Metoda statičkog strujanja zraka (ISO 9053-1:2018; EN ISO 9053-1:2018)  
Acoustics – Determination of airflow resistance – Part 1: Static airflow method (ISO 9053-1:2018; EN ISO 9053-1:2018)

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

HRN EN 1011-3:2018 en pr  
Zavarivanje – Preporuke za zavarivanje metalnih materijala – 3. dio: Elektrolučno zavarivanje nehrđajućih čelika (EN 1011-3:2018)  
Welding – Recommendations for welding of metallic materials – Part 3: Arc welding of stainless steels (EN 1011-3:2018)

HRN EN 1011-6:2018 en pr  
Zavarivanje – Preporuka za zavarivanje metalnih materijala – 6. dio: Zavarivanje laserom (EN 1011-6:2018)  
Welding – Recommendation for welding of metallic materials – Part 6: Laser beam welding (EN 1011-6:2018)

HRN EN 1708-2:2018 en pr  
Zavarivanje – Osnovni detalji zavarenog spoja na čeliku – 2. dio: Sastavni dijelovi koji nisu pod unutarnjim tlakom (EN 1708-2:2018)  
Welding – Basic weld joint details in steel – Part 2: Non internal pressurized components (EN 1708-2:2018)

HRN EN ISO 17279-2:2018 en pr  
Zavarivanje – Mikrosparanje druge generacije visokotemperaturnih supravodiča – 2. dio: Kvalifikacija zavarivačkog i ispitnog osoblja (ISO 17279-2:2018; EN ISO 17279-2:2018)  
Welding – Micro joining of 2nd generation high temperature superconductors – Part 2: Qualification for welding and testing personnel (ISO 17279-2:2018; EN ISO 17279-2:2018)

HRN EN ISO 17640:2018 en pr  
Nerazorno ispitivanje zavara – Ultrazvučno ispitivanje – Tehnike, razine ispitivanja i ocjenjivanje (ISO 17640:2018; EN ISO 17640:2018)  
Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels, and assessment (ISO 17640:2018; EN ISO 17640:2018)

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

HRN ISO 15836-1:2018 en pr  
Informacije i dokumentacija – Skup elemenata metapodataka Dublin Core – 1. dio: Osnovni elementi (ISO 15836-1:2017)  
Information and documentation – The Dublin Core metadata element set – Part 1: Core elements (ISO 15836-1:2017)

HRN ISO 28560-2:2018 en pr  
Informacije i dokumentacija – RFID u knjižnicama – 2. dio: Kodiranje RFID elemenata podataka na temelju pravila iz norme ISO/IEC 15962 (ISO 28560-2:2018)  
Information and documentation – RFID in libraries – Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962 (ISO 28560-2:2018)

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

HRN EN 13136:2018 en pr  
Rashladni sustavi i dizalice topline – Uređaji za rasterećenje od tlaka i pripadajući cjevovodi – Metode proračuna (EN 13136:2013+A1:2018)  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation (EN 13136:2013+A1:2018)

HRN EN 16855-2:2018 en pr  
Rashladne komore – Definicije, radne značajke toplinske izolacije i metode ispitivanja – 2. dio: Rashladne komore prilagođene korisniku (EN 16855-2:2018)  
Walk-in cold rooms – Definition, thermal insulation performance and test methods – Part 2: Customized cold rooms (EN 16855-2:2018)

## **HZN/TO 92, Zaštita od požara**

HRN EN 15254-4:2018 en pr  
Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 4. dio: Ostakljene konstrukcije (EN 15254-4:2018)  
Extended application of results from fire resistance tests – Non-loadbearing walls – Part 4: Glazed constructions (EN 15254-4:2018)

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

HRN ISO 2954:2018 en pr  
Mehaničke vibracije rotacijskih i stapnih strojeva – Zahtjevi za instrumente za mjerenje žestine vibracija (ISO 2954:2012)  
Mechanical vibration of rotating and reciprocating machinery – Requirements for instruments for measuring vibration severity (ISO 2954:2012)

HRN ISO 8568:2018 en pr  
Mehanički udari – Ispitni strojevi – Značajke i izvedba (ISO 8568:2007)  
Mechanical shock – Testing machines – Characteristics and performance (ISO 8568:2007)

HRN ISO 8608:2018 en pr  
Mehaničke vibracije – Profili ploha na cestama – Izvještavanje o rezultatima mjerenja (ISO 8608:2016)  
Mechanical vibration – Road surface profiles – Reporting of measured data (ISO 8608:2016)

HRN ISO 10068:2018 en pr  
Mehaničke vibracije i udari – Mehanička impedancija ljudske ruke u točki uzbude (ISO 10068:2012)  
Mechanical vibration and shock – Mechanical impedance of the human hand-arm system at the driving point (ISO 10068:2012)

HRN ISO 10815:2018 en pr  
Mehaničke vibracije – Mjerenje vibracija uzrokovanih prolaskom vlakova u željezničkim tunelima (ISO 10815:2016)  
Mechanical vibration – Measurement of vibration generated internally in railway tunnels by the passage of trains (ISO 10815:2016)

## **HZN/TO 120, Koža i obuća**

HRN EN ISO 23702-1:2018 en pr  
Koža – Organski fluor – 1. dio: Određivanje nehlapljivih spojeva metodom ekstrakcije pomoću tekućinske kromatografije (ISO 23702-1:2018; EN ISO 23702-1:2018)  
Leather – Organic fluorine – Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography/tandem mass spectrometry detector (LC-MS/MS) (ISO 23702-1:2018; EN ISO 23702-1:2018)

## **HZN/TO 136, Namještaj**

HRN EN 1022:2018 en pr  
Namještaj – Namještaj za sjedenje – Određivanje stabilnosti (EN 1022:2018)  
Furniture – Seating – Determination of stability (EN 1022:2018)

HRN EN 1335-2:2018 en pr  
Uredski namještaj – Uredske radne stolice – 2. dio: Sigurnosni zahtjevi (EN 1335-2:2018)  
Office furniture – Office work chair – Part 2: Safety requirements (EN 1335-2:2018)

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

HRN EN ISO 11299-1:2018 en pr  
Plastični cijevni sustavi za obnavljanje podzemnih plinskih mreža – 1. dio: Općenito (ISO 11299-1:2018; EN ISO 11299-1:2018)  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General (ISO 11299-1:2018; EN ISO 11299-1:2018)

HRN EN ISO 11299-2:2018 en pr  
Plastični cijevni sustavi za obnavljanje podzemnih plinskih mreža – 2. dio: Oblaganje kontinuiranim cijevima (ISO 11299-2:2018; 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 11299-2:2018)

HRN EN ISO 11299-3:2018 en pr  
Plastični cijevni sustavi za obnavljanje podzemnih plinskih mreža – 3. dio: Oblaganje prijanjajućim cijevima (ISO 11299-3:2018; 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 11299-3:2018)

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

HRN EN ISO 10634:2018 en pr  
Kvaliteta vode – Priprema i obrada organskih tvari slabo topljivih u vodi za naknadnu procjenu njihove biološke razgradljivosti u vodenom mediju (ISO 10634: 2018; 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 10634:2018)

HRN EN ISO 15681-2:2018 en pr  
Kvaliteta vode – Određivanje ortofosfata i ukupnog udjela fosfora protočnom analizom – 2. dio: Metoda kontinuirane protočne analize (ISO 15681-2:2018; 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; EN ISO 15681-2:2018)

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

HRN EN ISO 20685-1:2018 en pr  
3-D metodologije skeniranja za međunarodno kompatibilne antropometrijske baze podataka – 1. dio: Protokol za procjenu dimenzija tijela dobivenih na temelju 3-D snimaka tijela (ISO 20685-1:2018; EN ISO 20685-1:2018)  
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; EN ISO 20685-1:2018)

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

HRN EN 384:2018 en pr  
Konstrukcijsko drvo – Određivanje karakterističnih vrijednosti mehaničkih svojstava i gustoće (EN 384:2016+A1:2018)  
Structural timber – Determination of characteristic values of mechanical properties and density (EN 384:2016+A1:2018)

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

HRN ISO 9211-1:2018 en pr  
Optika i fotonika – Optički slojevi – 1. dio: Terminološki rječnik (ISO 9211-1:2018)  
Optics and photonics – Optical coatings – Part 1: Vocabulary (ISO 9211-1:2018)

HRN EN ISO 11145:2018 en pr  
Optika i fotonika – Laseri i pridružena oprema – Terminološki rječnik i simboli (ISO 11145:2018; EN ISO 11145:2018)  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols (ISO 11145:2018; EN ISO 11145:2018)

HRN EN ISO 11979-1:2018 en pr  
Oftalmološki implantati – Intraokularne leće – 1. dio: Terminološki rječnik (ISO 11979-1:2018; EN ISO 11979-1:2018)  
Ophthalmic implants – Intraocular lenses – Part 1: Vocabulary (ISO 11979-1:2018; EN ISO 11979-1:2018)

HRN EN ISO 13694:2018 en pr  
Optika i fotonika – Laseri i pridružena oprema – Metode ispitivanja za raspodjelu gustoće snage (energije) laserskog snopa (ISO 13694:2018; EN ISO 13694:2018)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution (ISO 13694:2018; EN ISO 13694:2018)

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

HRN EN 81-77:2018 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 77. dio: Dizala izložena seizmičkim uvjetima (EN 81-77:2018)  
Safety rules for the construction and installations of lifts – Part 77: Lifts subject to seismic conditions (EN 81-77:2018)

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

HRN EN 17022:2018 en pr  
Proizvodi za dojenčad i malu djecu – Dodaci za kupanje – Sigurnosni zahtjevi i metode ispitivanja (EN 17022:2018)  
Child care articles – Bathing aids – Safety requirements and test methods (EN 17022:2018)

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

HRN EN 16907-1:2018 en pr  
Zemljani radovi – 1. dio: Načela i opća pravila (EN 16907-1:2018)  
Earthworks – Part 1: Principles and general rules (EN 16907-1:2018)

HRN EN 16907-2:2018 en pr  
Zemljani radovi – 2. dio: Klasifikacija materijala (EN 16907-2:2018)  
Earthworks – Part 2: Classification of materials (EN 16907-2:2018)

HRN EN 16907-3:2018 en pr  
Zemljani radovi – 3. dio: Postupci izvedbe radova (EN 16907-3:2018)  
Earthworks – Part 3: Construction procedures (EN 16907-3:2018)

HRN EN 16907-4:2018 en pr  
Zemljani radovi – 4. dio: Poboljšanje tla vapnom i/ili hidrauličkim vezivima (EN 16907-4:2018)  
Earthworks – Part 4: Soil treatment with lime and/or hydraulic binders (EN 16907-4:2018)

HRN EN 16907-5:2018 en pr  
Zemljani radovi – 5. dio: Kontrola kvalitete (EN 16907-5:2018)  
Earthworks – Part 5: Quality control (EN 16907-5:2018)

HRN EN 16907-6:2018 en pr  
Zemljani radovi – 6. dio: Uređenje zemljišta hidrauličkim nasipavanjem materijala dobivenog jaružanjem (EN 16907-6:2018)  
Earthworks – Part 6: Land reclamation earthworks using dredged hydraulic fill (EN 16907-6:2018)

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

HRN EN 17156:2018 en pr  
Kozmetika – Analitičke metode – LC/UV metoda za identifikaciju i određivanje 22 organska UV filtra (koji se upotrebljavaju u EU) u kozmetičkim proizvodima (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 (EN 17156:2018)

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

HRN EN 17096:2018 en pr  
Geosintetici – Metoda ispitivanja za određivanje modula očvršćivanja HDPE geosintetičke barijere nakon granice popuštanja (EN 17096:2018)  
Geosynthetics – Test method for the determination of the strain hardening modulus of HDPE geosynthetic barriers (EN 17096:2018)

#### **HZN/TO 238, Čvrsta biogoriva**

HRN EN ISO 20023:2018 en pr  
Čvrsta biogoriva – Sigurnost peleta čvrstih biogoriva – Sigurno rukovanje i skladištenje drvnih peleta za kućna i ostala mala ložišta (ISO 20023:2018; 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; EN ISO 20023:2018)

#### **HZN/TO 502, Plinski uređaji**

HRN EN 437:2018 en pr  
Ispitni plinovi – Ispitni tlakovi – Kategorije uređaja (EN 437:2018)  
Test gases – Test pressures – Appliance categories (EN 437:2018)

HRN EN 13203-2:2018 en pr  
Kućanski plinski uređaji za grijanje vode – 2. dio: Ocjenjivanje potrošnje energije (EN 13203-2:2018)  
Gas-fired domestic appliances producing hot water – Part 2: Assessment of energy consumption (EN 13203-2:2018)

HRN EN ISO 20765-2:2018 en pr  
Prirodni plin – Izračunavanje termodinamičkih svojstava – 2. dio: Svojstva pojedinačnih faza (plin, tekućina i gusta tekućina) za široki raspon primjene (ISO 20765-2:2015; EN ISO 20765-2:2018)  
Natural gas – Calculation of thermodynamic properties – Part 2: Single-phase properties (gas, liquid, and dense fluid) for extended ranges of application (ISO 20765-2:2015; EN ISO 20765-2:2018)

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

HRN EN ISO 4945:2018 en pr  
Čelik – Određivanje sadržaja dušika – Spektrofotometrijska metoda (ISO 4945:2018; EN ISO 4945:2018)  
Steel – Determination of nitrogen – Spectrophotometric method (ISO 4945:2018; EN ISO 4945:2018)

HRN EN 10058:2018 en pr  
Toplo valjane plosnate čelične šipke i široke trake za opću namjenu – Mjere i dopuštena odstupanja oblika i mjera (EN 10058:2018)  
Hot rolled flat steel bars and steel wide flats for general purposes – Dimensions and tolerances on shape and dimensions (EN 10058:2018)

HRN EN/TR 10261:2018 en pr  
Željezni ljev i čelik – Europske norme za određivanje kemijskog sastava (CEN/TR 10261:2018)  
Iron and steel – European standards for the determination of chemical composition (CEN/TR 10261:2018)

HRN EN 10348-2:2018 en pr  
Čelik za armiranje betona – Galvanizirani čelik za armiranje – 2. dio: Galvanizirani proizvodi iz čelika za armiranje (EN 10348-2:2018)  
Steel for the reinforcement of concrete – Galvanized reinforcing steel – Part 2: Galvanized reinforcing steel products (EN 10348-2:2018)

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

HRN EN 13144:2018 en pr  
Metalne i ostale anorganske prevlake – Metoda kvantitativnog mjerenja prijanjanja vlačnim ispitivanjem (EN 13144:2018)  
Metallic and other inorganic coatings – Method for quantitative measurement of adhesion by tensile test (EN 13144:2018)

HRN EN ISO 20728:2018 en pr  
Korozija metala i legura – Određivanje otpornosti magnezijevih legura na korozijsko raspucavanje uz naprezanje (ISO 20728:2018; EN ISO 20728:2018)  
Corrosion of metal and alloys – Determination of resistance of magnesium alloys to stress corrosion cracking (ISO 20728:2018; EN ISO 20728:2018)

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

HRN EN ISO 11961:2018 en pr  
Industrija nafte i prirodnoga plina – Čelična cijev za bušenje (ISO 11961:2018; EN ISO 11961:2018)  
Petroleum and natural gas industries – Steel drill pipe (ISO 11961:2018; EN ISO 11961:2018)



HRN EN ISO 17782:2018 en pr  
Industrija nafte, petrokemije i prirodnog plina – Sheme za ocjenjivanje sukladnosti proizvođača posebnih materijala (ISO 17782:2018; EN ISO 17782:2018)  
Petroleum, petrochemical and natural gas industries – Scheme for conformity assessment of manufacturers of special materials (ISO 17782:2018; EN ISO 17782:2018)

HRN EN ISO 20815:2018 en pr  
Industrija nafte, petrokemije i prirodnog plina – Osiguranje proizvodnje i upravljanje pouzdanošću (ISO 20815:2018; EN ISO 20815:2018)  
Petroleum, petrochemical and natural gas industries – Production assurance and reliability management (ISO 20815:2018; EN ISO 20815:2018)

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

HRN ISO 1070:2018 en pr  
Hidrometrija – Metoda pada vodnog lica (ISO 1070:2018)  
Hydrometry – Slope-area method (ISO 1070:2018)

HRN EN 1434-1:2018 en pr  
Mjerila toplinske energije – 1. dio: Opći zahtjevi (EN 1434-1:2015+A1:2018)  
Thermal energy meters – Part 1: General requirements (EN 1434-1:2015+A1:2018)

HRN EN 1434-2:2018 en pr  
Mjerila toplinske energije – 2. dio: Konstrukcijski zahtjevi (EN 1434-2:2015+A1:2018)  
Thermal energy meters – Part 2: Constructional requirements (EN 1434-2:2015+A1:2018)

HRN EN 1434-4:2018 en pr  
Mjerila toplinske energije – 4. dio: Ispitivanja prilikom odobravanja tipa (EN 1434-4:2015+A1:2018)  
Thermal energy meters – Part 4: Pattern approval tests (EN 1434-4:2015+A1:2018)

### **HZN/TO 515, Žičare, uspinjače i vučnice**

HRN EN 17064:2018 en pr  
Sigurnosni zahtjevi za žičare za prijevoz osoba – Zaštita od požara (EN 17064:2018)  
Safety requirements for cableway installations designed to carry persons – Prevention and fight against fire (EN 17064:2018)

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

HRS CEN/TS 17249-3:2018 en pr  
Inteligentni transportni sustavi – Elektronička sigurnost – 3. dio: Elektronički hitni poziv za međugradске i gradske autobuse (CEN/TS 17249-3:2018)  
Intelligent transport systems – eSafety – Part 3: eCall for coaches and buses (CEN/TS 17249-3:2018)

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

HRN EN 14198:2018 en pr  
Željeznički sustav – Kočenje – Zahtjevi za sustave kočenja vlakova vučenih lokomotivama (EN 14198:2016+A1:2018)  
Railway applications – Braking – Requirements for the brake system of trains hauled by locomotives (EN 14198:2016+A1:2018)

HRN EN 14531-1:2018 en pr  
Željeznički sustav – Metode proračuna zaustavnih puteva, puteva usporjenja i pritvrdnog kočenja – 1. dio: Opći algoritmi s uporabom proračuna srednje vrijednosti za motorne vlakove ili pojedinačna vozila (EN 14531-1:2015+A1:2018)  
Railway applications – Methods for calculation of stopping and slowing distances and immobilization braking – Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles (EN 14531-1:2015+A1:2018)

HRN EN 14587-1:2018 en pr  
Željeznički sustav – Infrastruktura – Elektrootporno zavarivanje novih tračnica – 1. dio: Zavarivanje tračnica kvalitete R220, R260, R 260Mn, R320Cr, R350HT, R350LHT, R370CrHT i R400HT na stabilnom postrojenju (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 14587-1:2018)

HRN EN 15877-1:2018 en pr  
Željeznički sustav – Oznake na željezničkim vozilima – 1. dio: Teretni vagoni (EN 15877-1:2012+A1:2018)  
Railway applications – Marking on railway vehicles – Part 1: Freight wagons (EN 15877-1:2012+A1:2018)

HRN EN 16186-1:2018 en pr  
Željeznički sustav – Upravljačnica – 1. dio: Antropometrijski podaci i vidljivost (EN 16186-1:2014+A1:2018)  
Railway applications – Driver's cab – Part 1: Anthropometric data and visibility (EN 16186-1:2014+A1:2018)

HRN EN 16186-3:2018 en pr  
Željeznički sustav – Upravljačnica – 3. dio: Projektiranje zaslona (EN 16186-3:2016+A1:2018)  
Railway applications – Driver's cab – Part 3: Design of displays (EN 16186-3:2016+A1:2018)

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

HRN EN 13001-3-4:2018 en pr  
Granici – Osnove projektiranja – Dio 3-4: Granična stanja i dokaz sigurnosti za strojeve – Ležajevi (EN 13001-3-4:2018)  
Cranes – General design – Part 3-4: Limit states and proof of competence of machinery – Bearings (EN 13001-3-4:2018)

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

HRN EN 438-8:2018 en pr  
Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajeno se nazivaju laminati) – 8. dio: Razredba i specifikacije za dizajniranje laminata (EN 438-8:2018)  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 8: Classification and specifications for design laminates (EN 438-8:2018)

HRN EN 17129:2018 en pr  
Kontinuirani staklom ojačani plastični kompoziti – Pultrudirani jednosmjerni štapovi – Određivanje vlačnih svojstava usporedno sa smjerom vlakna (EN 17129:2018)  
Continuous-fibre-reinforced plastic composites – Pultruded unidirectional rods – Determination of tensile properties in parallel to the fibre direction (EN 17129:2018)

HRN EN ISO 20753:2018 en pr  
Plastika – Ispitni uzorci (ISO 20753:2018; EN ISO 20753:2018)  
Plastics – Test specimens (ISO 20753:2018; EN ISO 20753:2018)

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

HRN EN 14885:2018 en pr  
Kemijski dezinficijensi i antiseptici – Primjena europskih norma za kemijske dezinficijense i antiseptike (EN 14885:2018)  
Chemical disinfectants and antiseptics – Application of European Standards for chemical disinfectants and antiseptics (EN 14885:2018)

HRN EN 17126:2018 en pr  
Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu sporidicne djelotvornosti u medicini – Metoda ispitivanja i zahtjevi (faza 2, korak 1) (EN 17126:2018)  
Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants in the medical area – Test method and requirements (phase 2, step 1) (EN 17126:2018)

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

HRN EN 17114:2018 en pr  
Očuvanje kulturne baštine – Površinska zaštita poroznih anorganskih materijala – Listovi s tehničkim i kemijskim podacima voodobojnih proizvoda (EN 17114:2018)  
Conservation of cultural heritage – Surface protection for porous inorganic materials – Technical and chemical data sheets of water repellent product (EN 17114:2018)

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

HRN EN 12193:2018 en pr  
Svjetlo i rasvjeta – Rasvjeta sportskih objekata (EN 12193:2018)  
Light and lighting – Sports lighting (EN 12193:2018)

## HZN/TO 553, *Predgotovljeni proizvodi*

HRN EN 14516:2018 en pr  
Kade za upotrebu u kućanstvu (EN 14516:2015+A1:2018)  
Baths for domestic purposes (EN 14516:2015+A1:2018)

HRN EN 14527:2018 en pr  
Tuš-kade za upotrebu u kućanstvu (EN 14527:2016+A1:2018)  
Shower trays for domestic purposes (EN 14527:2016+A1:2018)

## HZN/TO 555, *Medicinski proizvodi*

HRN EN ISO 20184-2:2018 en pr  
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za procese prije ispitivanja za smrznuto tkivo – 2. dio: Izolirani proteini (ISO 20184-2:2018; 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; EN ISO 20184-2:2018)

HRN EN ISO 80369-1:2018 en pr  
Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 1. dio: Opći zahtjevi (ISO 80369-1:2018; EN ISO 80369-1:2018)  
Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements (ISO 80369-1:2018; EN ISO 80369-1:2018)

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

HRN EN 358:2018 en pr  
Osobna zaštitna oprema za radno pozicioniranje i sprječavanje pada s visine – Opasači i povezna užad za radno pozicioniranje ili ograničavanje pristupa (EN 358:2018)  
Personal protective equipment for work positioning and prevention of falls from a height – Belts and lanyards for work positioning or restraint (EN 358:2018)

HRN EN 363:2018 en pr  
Osobna zaštitna oprema protiv pada s visine – Sustavi za osobnu zaštitu od pada (EN 363:2018)  
Personal fall protection equipment – Personal fall protection systems (EN 363:2018)

HRN EN ISO 4007:2018 en pr  
Osobna zaštitna oprema – Zaštita očiju i lica – Terminološki rječnik (ISO 4007:2018; EN ISO 4007:2018)  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2018; EN ISO 4007:2018)

HRN EN 13832-2:2018 en pr  
Obuća za zaštitu od kemikalija – 2. dio: Zahtjevi za ograničeni kontakt s kemikalijama (EN 13832-2:2018)  
Footwear protecting against chemicals – Part 2: Requirements for limited contact with chemicals (EN 13832-2:2018)

HRN EN 13832-3:2018 en pr  
Obuća za zaštitu od kemikalija – 3. dio: Zahtjevi za produljeni kontakt s kemikalijama (EN 13832-3:2018)  
Footwear protecting against chemicals – Part 3: Requirements for prolonged contact with chemicals (EN 13832-3:2018)

## HZN/TO 558, *Zaštita dišnih putova*

HRN EN 148-1:2018 en pr  
Zaštitne naprave za disanje – Navoji za maske za lice – 1. dio: Standardni spoj s navojem (EN 148-1:2018)  
Respiratory protective devices – Threads for facepieces – Part 1: Standard thread connection (EN 148-1:2018)

## HZN/TO 560, *Tekstilni proizvodi*

HRN EN 17117-1:2018 en pr  
Plošni tekstil naslojen gumom ili plastikom – Mehaničke metode ispitivanja pod utjecajem dvoosnog naprezanja – 1. dio: Svojstva vlačne krutosti (EN 17117-1:2018)  
Rubber or plastics-coated fabrics – Mechanical test methods under biaxial stress states – Part 1: Tensile stiffness properties (EN 17117-1:2018)

HRN EN 17137:2018 en pr  
Tekstil – Određivanje sadržaja spojeva na osnovi klorobenzena i klorotoluena (EN 17137:2018)  
Textiles – Determination of the content of compounds based on chlorobenzenes and chlorotoluenes (EN 17137:2018)

HRN EN ISO 32100:2018 en pr  
Gumom ili plastikom naslojen plošni tekstil – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na savijanje metodom fleksometra (ISO 32100:2018; EN ISO 32100:2018)  
Rubber- or plastics-coated fabrics – Physical and mechanical tests – Determination of flex resistance by the flexometer method (ISO 32100:2018; EN ISO 32100:2018)

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

HRN EN 13445-6:2014/A2:2018 en pr  
Neložene tlačne posude – 6. dio: Zahtjevi za projektiranje i proizvodnju tlačnih posuda i dijelova posuda izrađenih od nodularnog lijeva (EN 13445-6:2014/A2:2018)  
Unfired pressure vessels – Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron (EN 13445-6:2014/A2:2018)

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

HRN EN 913:2018 en pr  
Gimnastička oprema – Opći sigurnosni zahtjevi i metode ispitivanja (EN 913:2018)  
Gymnastic equipment – General safety requirements and test methods (EN 913:2018)

HRN EN 15288-1:2018 en pr  
Bazeni za javnu uporabu – 1. dio: Sigurnosni zahtjevi za projektiranje (EN 15288-1:2018)  
Swimming pools for public use – Part 1: Safety requirements for design (EN 15288-1:2018)

HRN EN 15288-2:2018 en pr  
Bazeni za javnu uporabu – 2. dio: Sigurnosni zahtjevi za upravljanje (EN 15288-2:2018)  
Swimming pools for public use – Part 2: Safety requirements for operation (EN 15288-2:2018)

HRN ISO 21924-1:2018 en pr  
Zaštitna oprema za borilačke vještine – 1. dio: Opći zahtjevi i metode ispitivanja (ISO 21924-1:2017)  
Protective equipment for martial arts – Part 1: General requirements and test methods (ISO 21924-1:2017)

HRN ISO 21924-2:2018 en pr  
Zaštitna oprema za borilačke vještine – 2. dio: Dodatni zahtjevi i metode ispitivanja za štitnike gornjeg dijela stopala, potkoljenice i nadlaktica (ISO 21924-2:2017)  
Protective equipment for martial arts – Part 2: Additional requirements and test methods for instep protectors, shin protectors and forearm protectors (ISO 21924-2:2017)

HRN ISO 21924-3:2018 en pr  
Zaštitna oprema za borilačke vještine – 3. dio: Dodatni zahtjevi i metode ispitivanja za štitnike trupa (ISO 21924-3:2017)  
Protective equipment for martial arts – Part 3: Additional requirements and test methods for trunk protectors (ISO 21924-3:2017)

HRN ISO 21924-4:2018 en pr  
Zaštitna oprema za borilačke vještine – 4. dio: Dodatni zahtjevi i metode ispitivanja za štitnike glave (ISO 21924-4:2017)  
Protective equipment for martial arts – Part 4: Additional requirements and test methods for head protectors (ISO 21924-4:2017)

HRN ISO 21924-5:2018 en pr  
Zaštitna oprema za borilačke vještine – 5. dio: Dodatni zahtjevi i metode ispitivanja za štitnike genitalija i unutarnjih organa (ISO 21924-5:2017)  
Protective equipment for martial arts – Part 5: Additional requirements and test methods for genital protectors and abdominal protectors (ISO 21924-5:2017)

HRN ISO 21924-6:2018 en pr  
Zaštitna oprema za borilačke vještine – 6. dio: Dodatni zahtjevi i metode ispitivanja za štitnike prsa (žene) (ISO 21924-6:2017)  
Protective equipment for martial arts – Part 6: Additional requirements and test methods for breast protectors for females (ISO 21924-6:2017)

HRN ISO 21924-7:2018 en pr  
Zaštitna oprema za borilačke vještine – 7. dio: Dodatni zahtjevi i metode ispitivanja za štitnike ruku i stopala (ISO 21924-7:2017)  
Protective equipment for martial arts – Part 7: Additional requirements and test methods for hand and foot protectors (ISO 21924-7:2017)

#### **HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša**

HRN EN ISO 23161:2018 en pr  
Kvaliteta tla – Određivanje odabranih organokositrenih spojeva – Metoda plinske kromatografije (ISO 23161:2018; EN ISO 23161:2018)  
Soil quality – Determination of selected organotin compounds – Gas-chromatographic method (ISO 23161:2018; EN ISO 23161:2018)

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

HRN EN 50129:2018 en pr  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Elektronički sustavi za signalnu tehniku povezani sa sigurnošću (EN 50129:2018)  
Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signalling (EN 50129:2018)

HRN EN IEC 61375-2-6:2018 en pr  
Elektronička oprema za željeznice – Komunikacijska mreža vlaka (TCN) – Dio 2-6: Komunikacija između vozila i stabilnih postrojenja (IEC 61375-2-6:2018; EN IEC 61375-2-6:2018)  
Electronic railway equipment – Train communication network (TCN) – Part 2-6: On-board to ground communication (IEC 61375-2-6:2018; EN IEC 61375-2-6:2018)

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

HRN EN IEC 62961:2018 en pr  
Izolacijske tekućine – Metode ispitivanja za utvrđivanje međupovršinske napetosti izolacijskih tekućina – Određivanje metodom prstena (IEC 62961:2018; EN IEC 62961:2018)  
Insulating liquids – Test methods for the determination of interfacial tension of insulating liquids – Determination with the ring method (IEC 62961:2018; EN IEC 62961:2018)

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

HRN EN 50068:2018 en pr  
Visokonaponska sklopna aparatura – Kućišta izrađena od čelika punjena plinom (EN 50068:2018)  
High-voltage switchgear and controlgear – Gas-filled wrought steel enclosures (EN 50068:2018)

#### **HZN/TO E20, Električni kabeli**

HRN EN IEC 60332-3-10:2018/Ispr.1:2018 en pr  
Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 3-10: Ispitivanje na uspravno širenje plamena na snopu uspravno položenih vodova ili kabela – Ispitni uređaji (IEC 60332-3-10:2018/Corr.1:2018; EN IEC 60332-3-10:2018/AC:2018)  
Tests on electric and optical fibre cables under fire conditions – Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables – Apparatus (IEC 60332-3-10:2018/Corr.1:2018; EN IEC 60332-3-10:2018/AC:2018)

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

HRN EN 60669-1:2018/Ispr.1:2018 en pr  
Sklopke za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (EN 60669-1:2018/AC:2018)  
Switches for household and similar fixed electrical installations – Part 1: General requirements (EN 60669-1:2018/AC:2018)

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

HRN EN 61167:2018/A1:2018 en pr  
Metal-halogene žarulje – Izvedbeni zahtjevi (IEC 61167:2018/am1:2018; EN 61167:2018/A1:2018)  
Metal halide lamps – Performance specification (IEC 61167:2018/am1:2018; EN 61167:2018/A1:2018)

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

HRN HD 60364-8-2:2018 en pr  
Niskonaponske električne instalacije – Dio 8-2: Niskonaponske električne instalacije potrošača-proizvođača (IEC 60364-8-2:2018; HD 60364-8-2:2018)  
Low-voltage electrical installations – Part 8-2: Prosumer's low-voltage electrical installations (IEC 60364-8-2:2018; HD 60364-8-2:2018)

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

HRN EN IEC 61326-3-2:2018 en pr  
Električna oprema za mjerenje, vođenje i laboratorijsku uporabu – Zahtjevi za elektromagnetsku kompatibilnost (EMC) – Dio 3-2: Zahtjevi za imunosigurnosnih sustava i opremu namijenjenu za određivanje sigurnosnih funkcija (funkcionalna sigurnost) – Industrijske primjene s uvjetovanim elektromagnetskim okruženjem (IEC 61326-3-2:2017; EN IEC 61326-3-2:2018)  
Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) – Industrial applications with specified electromagnetic environment (IEC 61326-3-2:2017; EN IEC 61326-3-2:2018)

HRN EN IEC 62881:2018 en pr  
Tablica uzroka i posljedica (IEC 62881:2018; EN IEC 62881:2018)  
Cause and Effect Matrix (IEC 62881:2018; EN IEC 62881:2018)

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

HRN EN IEC 62923-1:2018 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav upravljanja alarmima zapovjedničkog mosta – 1. dio: Operativni i izvedbeni zahtjevi, metode ispitivanja i traženi rezultati ispitivanja (IEC 62923-1:2018; EN IEC 62923-1:2018)  
Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 1: Operational and performance requirements, methods of testing and required test results (IEC 62923-1:2018; EN IEC 62923-1:2018)

HRN EN IEC 62923-2:2018 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav upravljanja alarmima zapovjedničkog mosta – 2. dio: Identifikatori alarma i skupni identifikatori te ostale dodatne značajke (IEC 62923-2:2018; EN IEC 62923-2:2018)  
Maritime navigation and radiocommunication equipment and systems – Bridge alert management – Part 2: Alert and cluster identifiers and other additional features (IEC 62923-2:2018; EN IEC 62923-2:2018)

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

HRN EN IEC 60728-113:2018 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 113. dio: Optički sustavi za radiodifuzijski prijenos signala koji se sastoji samo od digitalnih kanala (IEC 60728-113:2018; EN IEC 60728-113:2018)  
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; EN IEC 60728-113:2018)

HRN EN IEC 60728-113:2018/Ispr.1:2018 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 113. dio: Optički sustavi za radiodifuzijski prijenos signala koji se sastoji samo od digitalnih kanala (IEC 60728-113:2018/Corr.1:2018; 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/Corr.1:2018; EN IEC 60728-113:2018/AC:2018)



## HZN/TO T4, Normizacija u telekomunikacijama

HRN EN 300 698 V2.3.1:2018 en pr  
Radiotelefonski odašiljači i prijamnici za pomorsku pokretnu službu koja radi u VHF pojasima, namijenjeni za kopnene vodene puteve – Harmonizirana norma za pristup radijskom spektru i za svojstva hitnih službi (EN 300 698 V2.3.1:2018)  
Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways – Harmonised Standard for access to radio spectrum and for features for emergency services (EN 300 698 V2.3.1:2018)

HRN EN 300 700 V2.2.1:2018 en pr  
Digitalne unapređene bežične telekomunikacije (DECT) – Bežična relejna stanica (WRS) (EN 300 700 V2.2.1:2018)  
Digital Enhanced Cordless Telecommunications (DECT) – Wireless Relay Station (WRS) (EN 300 700 V2.2.1:2018)

HRN EN 300 743 V1.6.1:2018 en pr  
Digitalna video radiodifuzija (DVB) – Sustavi za stavljanje podnaslova (EN 300 743 V1.6.1:2018)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.6.1:2018)

HRN EN 303 472 V1.1.1:2018 en pr  
Ekoinženjering (EE) – Metodologija mjerenja energetske učinkovitosti i metrika za RAN opremu (EN 303 472 V1.1.1:2018)  
Environmental Engineering (EE) – Energy Efficiency measurement methodology, and metrics for RAN equipment (EN 303 472 V1.1.1:2018)

## HZN/TO Z2, Ocjenjivanje sukladnosti i akreditacija

HRN EN ISO/IEC 17021-2:2018 en pr  
Ocjenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 2. dio: Zahtjevi za osposobljenost za auditiranje i certifikaciju sustava upravljanja okolišem (ISO/IEC 17021-2:2016; 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 17021-2:2018)

HRN EN ISO/IEC 17021-3:2018 en pr  
Ocjenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 3. dio: Zahtjevi za osposobljenost za auditiranje i certifikaciju sustava upravljanja kvalitetom (ISO/IEC 17021-3:2017; 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; EN ISO/IEC 17021-3:2018)

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

HRN EN 15426:2018 en pr  
Svijeće – Specifikacija za ponašanje čađe (EN 15426:2018)  
Candles – Specification for sooting behaviour (EN 15426:2018)

## HZN/TU B1, Graditeljstvo 1

HRI CEN/TR 17304:2018 en pr  
Građevni proizvodi – Procjena otpuštanja opasnih tvari – Određivanje emisija amonijaka iz proizvoda za izolaciju od celuloze pri relativnoj vlažnosti od 90 % (CEN/TR 17304:2018)  
Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air of ammonia from cellulose insulation at 90 % RH (CEN/TR 17304:2018)

## HZN/TU I2, Strojstvo 2

HRS CEN/TS 17276:2018 en pr  
Nanotehnologije – Smjernice za procjenu životnog ciklusa – Primjena EN ISO 14044:2006 za proizvodnju nanomaterijala (CEN/TS 17276:2018)  
Nanotechnologies – Guidelines for Life Cycle Assessment – Application of EN ISO 14044:2006 to Manufactured Nanomaterials (CEN/TS 17276:2018)

## HZN/TU N1, Nemetalni materijali 1

HRN EN 993-1:2018 en pr  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 1. dio: Određivanje stvarne volumne gustoće, prividne poroznosti i stvarne poroznosti (EN 993-1:2018)  
Methods of test for dense shaped refractory products – Part 1: Determination of bulk density, apparent porosity and true porosity (EN 993-1:2018)

HRN EN 993-5:2018 en pr  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 5. dio: Određivanje otpornosti na hladno lomljenje (EN 993-5:2018)  
Methods of test for dense shaped refractory products – Part 5: Determination of cold crushing strength (EN 993-5:2018)

HRN EN 993-6:2018 en pr  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 6. dio: Određivanje nosivosti pri sobnoj temperaturi (EN 993-6:2018)  
Methods of test for (dense) shaped refractory products – Part 6: Determination of modulus of rupture at ambient temperature (EN 993-6:2018)

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

HRN EN ISO 7405:2018 en pr  
Stomatologija – Ocjenjivanje biokompatibilnosti medicinskih proizvoda koji se primjenjuju u stomatologiji (ISO 7405:2018; EN ISO 7405:2018)  
Dentistry – Evaluation of biocompatibility of medical devices used in dentistry (ISO 7405:2018; EN ISO 7405:2018)

## HZN/TU U1, Opća elektrotehnika 1

HRN EN IEC 60974-14:2018 en pr  
Oprema za elektrolyučno zavarivanje – 14. dio: Umjeravanje, provjera i ispitivanje konzistencije (IEC 60974-14:2018; EN IEC 60974-14:2018)  
Arc welding equipment – Part 14: Calibration, validation and consistency testing (IEC 60974-14:2018; EN IEC 60974-14:2018)

## HZN/TU V1, Elektronika 1

HRN EN IEC 60297-3-110:2018 en pr  
Mehaničke konstrukcije za električnu i elektroničku opremu – Dimenzije mehaničkih konstrukcija serije 482,6 mm (19 inča) – Dio 3-110: Okviri i ormari za pametne kuće (IEC 60297-3-110:2018; EN IEC 60297-3-110:2018)  
Mechanical structures for electrical and electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-110: Residential racks and cabinets for smart houses (IEC 60297-3-110:2018; EN IEC 60297-3-110:2018)

HRN EN IEC 60512-1:2018 en pr  
Konektori za električnu i elektroničku opremu – Ispitivanja i mjerenja – 1. dio: Opća specifikacija (IEC 60512-1:2018; EN IEC 60512-1:2018)  
Connectors for electrical and electronic equipment – Tests and measurements – Part 1: Generic specification (IEC 60512-1:2018; EN IEC 60512-1:2018)

HRN EN IEC 60793-1-49:2018 en pr  
Optička vlakna – Dio 1-49: Metode mjerenja i postupci ispitivanja – Diferencijalni način kašnjenja (IEC 60793-1-49:2018; EN IEC 60793-1-49:2018)  
Optical fibres – Part 1-49: Measurement methods and test procedures – Differential mode delay (IEC 60793-1-49:2018; EN IEC 60793-1-49:2018)

HRN EN IEC 60794-4-20:2018 en pr  
Svjetlovodni kabeli – Dio 4-20: Sekcijska specifikacija – Zračni svjetlovodni kabeli uz električne vodove – Skupna specifikacija za ADSS (dielektrične samonosive) svjetlovodne kabele (IEC 60794-4-20:2018; EN IEC 60794-4-20:2018)  
Optical fibre cables – Part 4-20: Sectional specification – Aerial optical cables along electrical power lines – Family specification for ADSS (all dielectric self-supported) optical cables (IEC 60794-4-20:2018; EN IEC 60794-4-20:2018)

HRN EN IEC 61853-3:2018 en pr  
Photovoltaic (PV) module performance testing and energy rating – Part 3: Energy rating of PV modules (IEC 61853-3:2018; EN IEC 61853-3:2018)

HRN EN IEC 61853-4:2018 en pr  
Photovoltaic (PV) module performance testing and energy rating – Part 4: Standard reference climatic profiles (IEC 61853-4:2018; EN IEC 61853-4:2018)

## HZN/TU W1, Energetska elektrotehnika 1

- HRN EN 50342-1:2015/A1:2018 en pr  
Olovni akumulatori za pokretanje – 1. dio: Opći zahtjevi i metode ispitivanja (EN 50342-1:2015/A1:2018)  
Lead-acid starter batteries – Part 1: General requirements and methods of test (EN 50342-1:2015/A1:2018)
- HRN EN 50342-6:2015/A1:2018 en pr  
Olovni akumulatori za pokretanje – 6. dio: Akumulatori za primjenu u mikrociklusima (EN 50342-6:2015/A1:2018)  
Lead-acid starter batteries – Part 6: Batteries for Micro-Cycle Applications (EN 50342-6:2015/A1:2018)
- HRN EN 50597:2018 en pr  
Petrošnja energije automata za prodaju (EN 50597:2018)  
Energy consumption of vending machines (EN 50597:2018)
- HRN EN IEC 60358-4:2018 en pr  
Spojni kondenzatori i kapacitivni djelitelji – 4. dio: Istosmjerni i izmjenični jednofazni kapacitivni djelitelji (IEC 60358-4:2018; EN IEC 60358-4:2018)  
Coupling capacitors and capacitor dividers – Part 4: DC and AC single-phase capacitor dividers (IEC 60358-4:2018; EN IEC 60358-4:2018)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.  
Pisane primjedbe na prijedloge za prihvaćanje norma dostavljaju se Hrvatskome zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

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

- prEN ISO 12625-11 en  
Tissue paper and tissue products – Part 11: Determination of wet ball burst strength (ISO/FDIS 12625-11)  
Tanki upijajući papir i proizvodi od tankoga upijajućeg papira – 11. dio: Određivanje otpornosti na prskanje mokre kugle (ISO/FDIS 12625-11)

### HZN/TO 8, Brodogradnja

- prEN ISO 25197 en  
Small Craft – Electrical/electronic control system for steering, shift and throttle (ISO/DIS 25197:2018)  
Mala plovila – Elektronički upravljački sustavi za kormilarenje, ukapčanje spojke i regulator brzine vrtnje (ISO/DIS 25197:2018)

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

- prEN 14972-8 en  
Fixed firefighting systems – Water mist systems – Part 8: Test protocol for machinery in enclosures exceeding 260 m<sup>3</sup> for open nozzle systems
- prEN 14972-9 en  
Fixed firefighting systems – Water mist systems – Part 9: Test protocol for machinery in enclosures not exceeding 260 m<sup>3</sup> for open nozzle systems

### HZN/TO 37, Terminologija

- ISO/FDIS 20228 en  
Legal interpreting  
Usmeno prevođenje u pravnim postupcima

## HZN/TO 44, Zavarivanje i srodni postupci

- prEN ISO 10863 en  
Non-destructive testing of welds – Ultrasonic testing – Use of time-of-flight diffraction technique (TOFD) (ISO/DIS 10863:2018)  
Nerazorno ispitivanje zavarenih spojeva – Ultrazvučno ispitivanje – Upotreba tehnike difrakcije (TOFD) (ISO/DIS 10863:2018)

## HZN/TO 74, Cement i vapno

- prEN 197-1 en  
Cement – Part 1: Composition, specifications and conformity criteria for common cements  
Cement – 1. dio: Sastav, specifikacije i kriteriji sukladnosti cementa opće namjene

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

- prEN 16838 en  
Refrigerated display scooping cabinets and pozzetto for gelato – Classification, requirements, performance and energy consumption testing

## HZN/TO 130, Grafička tehnologija

- ISO 17972-3:2017 en  
Graphic technology – Colour data exchange format (CxF/X) – Part 3: Output target data (CxF/X-3)  
Grafička tehnologija – Format razmjene kolornih podataka (CxF/X) – 3. dio: Ciljna testna polja (CxF/X – 3)
- ISO 17972-4:2018 en  
Graphic technology – Colour data exchange format (CxF/X) – Part 4: Spot colour characterisation data (CxF/X-4)  
Grafička tehnologija – Format razmjene kolornih podataka (CxF/X) – 4. dio: Karakterizacija podataka spot boja

## HZN/TO 146, Kvaliteta zraka

- prEN 17255-2 en  
Stationary source emissions – Data acquisition and handling systems – Part 2: Specification of requirements on data acquisition and handling systems  
Emisije iz nepokretnih izvora – Sustavi za prikupljanje i obradu podataka – 2. dio: Specifikacija zahtjeva za sustave za prikupljanje i obradu podataka
- prEN 17340 en  
Stationary source emissions – Determination of mass concentration of fluorinated compounds expressed as HF – Standard reference method  
Emisije iz nepokretnih izvora – Određivanje masene koncentracije fluoriranih spojeva izraženih kao HF – Standardna referentna metoda

## HZN/TO 163, Toplinska izolacija

- EN 14303:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made mineral wool (MW) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od mineralne vune (MW) – Specifikacija
- EN 14304:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made flexible elastomeric foam (FEF) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od savitljive elastomerne pjene (FEF) – Specifikacija
- EN 14305:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made cellular glass (CG) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ćelijastog (pjenastog) stakla (CG) – Specifikacija
- EN 14306:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made calcium silicate (CS) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od kalcijevog silikata (CS) – Specifikacija

- EN 14307:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made extruded polystyrene foam (XPS) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekstrudirane polistirenske pjene (XPS) – Specifikacija
- EN 14308:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od tvrde poliuretanske pjene (PUR) i poliizocijanuratne pjene (PIR) – Specifikacija
- EN 14309:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made products of expanded polystyrene (EPS) – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekspaniranog polistirena (EPS) – Specifikacija
- EN 14313:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made polyethylene foam (PEF) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od polietilenske pjene (PEF) – Specifikacija
- EN 14314:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od fenolne pjene (PF) – Specifikacija
- EN 15501:2015/prA1 en  
Thermal insulation products for building equipment and industrial installations – Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products – Specification  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekspaniranog perlita (EP) i ljuskastog vermikulita (EV) – Specifikacija

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

- prEN 1090-1 en  
Execution of steel structures and aluminium structures – Part 1: Assessment and verification of constancy of performance of steel components and aluminium components for structural use

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

- prEN ISO 11551 en  
Optics and photonics – Lasers and laser-related equipment – Test method for absorptance of optical laser components (ISO/DIS 11551:2018)

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

- prEN 14344 en  
Child care articles – Child seats for cycles – Safety requirements and test methods  
Proizvodi za dojenčad i malu djecu – Dječja sjedala za bicikle – Sigurnosni zahtjevi i metode ispitivanja
- prEN 14350 en  
Child care articles – Drinking equipment – Safety requirements and test methods

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

- ISO 18400-104:2018 en  
Soil quality – Sampling – Part 104: Strategies  
Kvaliteta tla – Uzorkovanje – 104. dio: Strategije
- ISO 18400-202:2018 en  
Soil quality – Sampling – Part 202: Preliminary investigations  
Kvaliteta tla – Uzorkovanje – 202. dio: Preliminarna istraživanja

- ISO 18400-203:2018 en  
Soil quality – Sampling – Part 203: Investigation of potentially contaminated sites  
Kvaliteta tla – Uzorkovanje – 203. dio: Istraživanje potencijalno onečišćenih lokacija

- ISO 18400-205:2018 en  
Soil quality – Sampling – Part 205: Guidance on the procedure for investigation of natural, near-natural and cultivated sites  
Kvaliteta tla – Uzorkovanje – 205. dio: Upute za postupke istraživanja prirodnih, gotovo prirodnih i kultiviranih površina

- ISO 18400-206:2018 en  
Soil quality – Sampling – Part 206: Collection, handling and storage of soil under aerobic conditions for the assessment of microbiological processes, biomass and diversity in the laboratory  
Kvaliteta tla – Uzorkovanje – 206. dio: Prikupljanje, rukovanje i skladištenje uzoraka tla pod aerobnim uvjetima u svrhu procjene mikrobioloških procesa, biomase i raznolikosti u laboratoriju

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

- prEN 460 en  
Durability of wood and wood-based products – Natural durability of solid wood – Guide to the durability requirements for wood to be used in hazard classes  
Trajnost drva i proizvoda na osnovi drva – Prirodna trajnost masivnog drva – Upute za određivanje zahtjeva za trajnost drva u odnosu na razrede opasnosti

- prEN 12404 en  
Durability of wood and wood-based products – Assessment of the effectiveness of a masonry fungicide to prevent growth into wood of Dry Rot *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray – Laboratory method  
Trajnost drva i proizvoda na osnovi drva – Procjena učinkovitosti građevinskog fungicida za sprečavanje razvoja smeđe suhe truleži *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray u drvu – Laboratorijska metoda

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

- prEN ISO 12960 en  
Geotextiles and geotextile-related products – Screening test method for determining the resistance to acid and alkaline liquids (ISO/DIS 12960:2018)  
Geotekstil i proizvodi srodnici s geotekstilom – Selektivna metoda ispitivanja za određivanje otpornosti prema kiselim i lužnatim tekućinama (ISO/DIS 12960:2018)

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

- ISO 20611:2018 en  
Adventure tourism – Good practices for sustainability – Requirements and recommendations  
Pustolovni turizam – Dobra praksa za održivost – Zahtjevi i preporuke
- ISO 21426:2018 en  
Tourism and related services – Medical spas – Service requirements  
Turističke i srodne usluge – Zdravstveni turizam na izvorima ljekovite vode – Zahtjevi za usluge

### **HZN/TO 502, Plinski uređaji**

- prEN 1749 en  
European standard for the classification of gas appliances according to the method of supplying combustion air and of evacuation of the combustion products (types)
- prEN 13203-4 en  
Gas-fired domestic appliances producing hot water – Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity  
Kućanski plinski uređaji za grijanje vode – 4. dio: Ocjenjivanje potrošnje energije uređaja s kombinacijom plina i električne energije koji proizvode toplu vodu i električnu energiju

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

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



ISO 14707:2015 en  
Surface chemical analysis – Glow discharge optical emission spectrometry (GD-OES) – Introduction to use  
Površinska kemijska analiza – Optička emisijska spektrometrija (GD-OES) – Uvod u uporabu

ISO 18115-1:2013 en  
Surface chemical analysis – Vocabulary – Part 1: General terms and terms used in spectroscopy  
Površinska kemijska analiza – Terminološki rječnik – 1. dio: Opće nazivlje i nazivlje koje se upotrebljava u spektroskopiji

ISO 18115-2:2013 en  
Surface chemical analysis – Vocabulary – Part 2: Terms used in scanning-probe microscopy  
Površinska kemijska analiza – Terminološki rječnik – 2. dio: Nazivlje koje se upotrebljava u mikroskopiji s pretražnom sondom

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

ISO 4524-2:2000 en  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 2: Mixed flowing gas (MFG) environmental tests

ISO 9587:2007 en  
Metallic and other inorganic coatings – Pretreatment of iron or steel to reduce the risk of hydrogen embrittlement  
Metalne i druge anorganske prevlake – Predobrada željeza ili čelika s ciljem smanjenja mogućnosti pojave vodikove krhkosti

ISO 9588:2007 en  
Metallic and other inorganic coatings – Post-coating treatments of iron or steel to reduce the risk of hydrogen embrittlement  
Metalne i druge anorganske prevlake – Naknadna obrada željeza ili čelika s ciljem smanjenja mogućnosti pojave vodikove krhkosti

ISO 9591:2004 en  
Corrosion of aluminium alloys – Determination of resistance to stress corrosion cracking  
Korozija aluminijevih legura – Određivanje otpornosti na korozijsko raspucavanje uz naprezanje

prEN ISO 11844-1 en  
Corrosion of metals and alloys – Classification of low corrosivity of indoor atmospheres – Part 1: Determination and estimation of indoor corrosivity (ISO/DIS 11844-1:2018)  
Korozija metala i legura – Razredba niske korozivnosti atmosfera unutrašnjeg prostora – 1. dio: Određivanje i procjena korozivnosti unutrašnjeg prostora (ISO/DIS 11844-1:2018)

prEN ISO 11844-2 en  
Corrosion of metals and alloys – Classification of low corrosivity of indoor atmospheres – Part 2: Determination of corrosion attack in indoor atmospheres (ISO/DIS 11844-2:2018)  
Korozija metala i legura – Razredba niske korozivnosti atmosfera unutrašnjeg prostora – 2. dio: Određivanje korozijskog napada u atmosferama unutrašnjeg prostora (ISO/DIS 11844-2:2018)

prEN ISO 11844-3 en  
Corrosion of metals and alloys – Classification of low corrosivity of indoor atmospheres – Part 3: Measurement of environmental parameters affecting indoor corrosivity (ISO/DIS 11844-3:2018)  
Korozija metala i legura – Razredba niske korozivnosti atmosfera unutrašnjeg prostora – 3. dio: Mjerenje okolišnih parametara koji utječu na korozivnost unutrašnjeg prostora (ISO/DIS 11844-3:2018)

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

prEN 234 en  
Wallcoverings in roll form – Specification for wallcoverings for subsequent decoration  
Zidni pokrovi u rolama – Specifikacije za zidne pokrove za naknadnu dekoraciju

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

prEN 12896-4 en  
Public transport – Reference data model – Part 4: Operations monitoring and control

prEN 12896-5 en  
Public transport – Reference data model – Part 5: Fare management

prEN 12896-6 en  
Public transport – Reference data model – Part 6: Passenger information

prEN 12896-7 en  
Public transport – Reference data model – Part 7: Driver management

prEN 12896-8 en  
Public transport – Reference data model – Part 8: Management information & statistics

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

EN 13230-4:2016/prA1 en  
Railway applications – Track – Concrete sleepers and bearers – Part 4: Prestressed bearers for switches and crossings  
Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 4. dio: Prednapeti betonski pragovi za skretnice i križišta

prEN 15273-1:2018 en  
Railway applications – Gauges – Part 1: Generic explanations and methods of gauging

prEN 15273-2 en  
Railway Applications – Gauges – Part 2: Rolling stock  
Željeznički sustav – Profili – 2. dio: Vagoni

prEN 15273-3 en  
Railway applications – Gauges – Part 3: Infrastructure gauge

prEN 15273-4 en  
Railway Applications – Gauges – Part 4: Catalogue of gauges and associated rules

EN 16704-1:2016/prA1 en  
Railway applications – Track – Safety protection on the track during work – Part 1: Railway risks and common principles for protection of fixed and mobile work sites  
Željeznički sustav – Željeznički gornji ustroj – Sigurnosna zaštita na kolosijeku tijekom radova – 1. dio: Sigurnosni rizici i zajednička načela za zaštitu stabilnih i pokretnih radilišta

EN 16704-3:2016/prA1 en  
Railway applications – Track – Safety protection on the track during work – Part 3: Competences for personnel related to work on or near tracks  
Željeznički sustav – Željeznički gornji ustroj – Sigurnosna zaštita na kolosijeku tijekom radova – 3. dio: Osposobljenost osoblja za rad na kolosijeku ili uz kolosijek

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

prEN ISO 294-3 en  
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 3: Small plates (ISO/DIS 294-3:2018)  
Plastika – Injekcijsko prešani ispiti plastomernih materijala – 3. dio: Male ploče (ISO/DIS 294-3:2018)

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

prEN 12640 en  
Intermodal loading units and commercial vehicles – Lashing points for cargo securing – Minimum requirements and testing

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

prEN 16867 en  
Building hardware – Mechatronic door furniture – Requirements and test methods

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

prEN ISO 8560 en  
Technical drawings – Construction drawings – Representation of modular sizes, lines and grids (ISO/FDIS 8560:2018)  
Tehnički crteži – Građevinski crteži – Prikaz modularnih mjera, crta i mreža (ISO/FDIS 8560:2018)



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

- prEN ISO 22442-2 en  
Medical devices utilizing animal tissues and their derivatives – Part 2: Controls on sourcing, collection and handling (ISO/DIS 22442-2:2018)  
Medicinski proizvodi u kojima se upotrebljavaju životinjska tkiva i njihovi derivati – 2. dio: Kontrole podrijetla, skupljanje i rukovanje (ISO/DIS 22442-2:2018)

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

- prEN 16767 en  
Industrial valves – Metallic check valves

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

- prEN ISO 3071 en  
Textiles – Determination of pH of aqueous extract (ISO/DIS 3071:2018)  
Tekstilije – Određivanje pH vodenog ekstrakta (ISO/DIS 3071:2018)

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

- prEN ISO 10961 en  
Gas cylinders – Cylinder bundles – Design, manufacture, testing and inspection (ISO/DIS 10961:2018)  
Plinske boce – Baterije boca – Projektiranje, izrada, ispitivanje i pregled (ISO/DIS 10961:2018)
- prEN ISO 11117 en  
Gas cylinders – Valve protection caps, guards and shrouds – Design, construction and tests (ISO/DIS 11117:2018)  
Plinske boce – Zaštitne kape ventila i štitnici ventila – Projektiranje, izrada i ispitivanje (ISO/DIS 11117:2018)
- prEN 13445-11 en  
Unfired pressure vessels – Part 11: Additional requirements for pressure vessels of titanium and titanium alloys  
Neložene posude pod tlakom – 11. dio: Dodatni zahtjevi za posude pod tlakom od titanija i legura titanija
- prEN 17339 en  
Transportable gas cylinders – Fully wrapped carbon composite cylinders and tubes for hydrogen use

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

- prEN IEC 60947-3:2018 en  
Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:201X)  
Niskonaponska sklopna aparatura – 3. dio: Sklopke, rastavljači, rastavne sklopke i kombinacije s osiguračima (IEC 60947-3:201X)

## **HZN/TO E20, Električni kabeli**

- prEN 50305:2018 en  
Railway applications – Railway rolling stock cables having special fire performance – Test methods  
Željezničke primjene – Kabeli za željeznička vozila s posebnom postojanošću na vatru – Metode ispitivanja
- prEN 50306-1:2018 en  
Railway applications – Railway rolling stock cables having special fire performance – Thin wall – Part 1: General requirements  
Željezničke primjene – Kabeli za željeznička vozila s posebnom postojanošću na vatru – Smanjena i standardna debljina izolacije – 1. dio: Opći zahtjevi
- prEN 50306-2:2018 en  
Railway applications – Railway rolling stock cables having special fire performance – Thin wall – Part 2: Single core cables  
Željezničke primjene – Kabeli za željeznička vozila s posebnom postojanošću na vatru – Smanjena debljina izolacije – 2. dio: Jednožilni kabeli
- prEN 50306-3:2018 en  
Railway applications – Railway rolling stock cables having special fire performance – Thin wall – Part 3: Single core and multicore cables screened and thin wall sheathed

- prEN 50306-4:2018 en  
Railway applications – Railway rolling stock cables having special fire performance – Thin wall – Part 4: Multicore and multipair sheathed cables

- prEN IEC 60331-1 en  
Tests for electric cables under fire conditions – Circuit integrity – Part 1: Test method for fire with shock at a temperature of at least 830°C for cables of rated voltage up to and including 0,6/1,0 kV and with an overall diameter exceeding 20 mm (IEC 60331-1:2018)  
Ispitivanja električnih kabela pod djelovanjem vatre – Cjelovitost izolacije – 1. dio: Ispitna metoda za ispitivanje u vatru pod udarom na temperaturi od najmanje 830 °C za kabele naponskog nivoa do i uključujući 0,6/1 kV i koji prelaze vanjski promjer 20 mm (IEC 60331-1:2018)

- prEN IEC 60754-3 en  
Test on gases evolved during combustion of materials from cables – Part 3: Measurement of low level of halogen content by ion chromatography (IEC 60754-3:2018)

- prEN IEC 61238-1-1 en  
Compression and mechanical connectors for power cables – Part 1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (Um = 1; 2 kV) tested on non-insulated conductors (IEC 61238-1-1:2018)

- prEN IEC 61238-1-2:2018 en  
Compression and mechanical connectors for power cables – Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated conductors (IEC 61238-1-2:2018)

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

- prEN IEC 62020-1:2018 en  
Electrical accessories – Residual current monitors for household and similar uses (RCMs) (IEC 62020-1:201X)  
Električni pribor – Monitori diferencijalne struje za kućanstvo i slične primjene (RCM-i) (IEC 62020-1:201X)

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

- prEN IEC 60709:2018 en  
Nuclear power plants – Instrumentation, control and electrical power systems important to safety – Separation (IEC 60709:2018)

- prEN IEC 60964:2018 en  
Nuclear power plants – Control rooms – Design (IEC 60964:2018)  
Nuklearne elektrane – Upravljačke sobe – Projektiranje (IEC 60964:2018)

- prEN IEC 61500:2018 en  
Nuclear power plants – Instrumentation and control systems important to safety – Data communication in systems performing category A functions (IEC 61500:2018)  
Nuklearne elektrane – Instrumentacija i sustavi upravljanja koji su važni za sigurnost – Komunikacija podacima u sustavima koji provode A funkcije (IEC 61500:2018)

- prEN IEC 62465:2018 hr  
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of electrical cabling systems (IEC 62465:2010)

- prEN IEC 62646:2018 en  
Nuclear power plants – Control rooms – Computer-based procedures (IEC 62646:2016)

- EN 62808:2016/prA1:2018 en  
Nuclear power plants – Instrumentation and control systems important to safety – Design and qualification of isolation devices (IEC 62808:2015/am1:2018)  
Nuklearne elektrane – Instrumentacija i kontrolni sustavi važni za sigurnost – Izvedba i kvalifikacija izolacijskih naprava (IEC 62808:2015/am1:2018)

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

- prEN IEC 61804-3:2018 en  
Function Blocks (FB) for process control and Electronic Device Description Language (EDDL) – Part 3: EDDL syntax and semantics (IEC 61804-3:201X)

- prEN IEC 61804-4:2018 en  
Function blocks (FB) for process control and electronic device description language (EDDL) – Part 4: EDD interpretation (IEC 61804-4:201X)  
Funkcijski blokovi (FB) za vođenje procesa i jezik za opis elektroničkih uređaja (EDDL) – 4. dio: Tumačenje opisa elektroničkih uređaja (EDD) (IEC 61804-4:201X)
- prEN IEC 61804-5:2018 en  
Function blocks (FB) for process control and electronic device description language (EDDL) – Part 5: EDDL Builtin library (IEC 61804-5:201X)
- prEN 62443-2-4 en  
Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4:2015)  
Sigurnost sustava industrijske automatizacije i vođenja – Dio 2-4: Sigurnosni programski zahtjevi za IACS davatelje usluga (IEC 62443-2-4:2015)
- prEN 62443-2-4/prA1 en  
Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4:2015/am1:2017)  
Sigurnost sustava industrijske automatizacije i vođenja – Dio 2-4: Sigurnosni programski zahtjevi za IACS davatelje usluga (IEC 62443-2-4:2015/am1:2017)
- prEN IEC 62443-3-3:2018 en  
Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels (IEC 62443-3-3:2013)

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

- prEN IEC 62680-1-5:2018 en  
Universal serial bus interfaces for data and power – Part 1-5: Common components – USB Audio 3.0 Device Class Definition (IEC 62680-1-5:201X)
- prEN IEC 62680-1-6:2018 en  
Universal serial bus interfaces for data and power – Part 1-6: Common components – USB Audio 3.0 Device Class Definition Basic Functions (IEC 62680-1-6:201X)
- prEN IEC 62680-1-7:2018 en  
Universal serial bus interfaces for data and power – Part 1-7: Common components – USB Audio 3.0 Device Class Definition Data Formats (IEC 62680-1-7:201X)
- prEN IEC 62680-1-8:2018 en  
Universal serial bus interfaces for data and power – Part 1-8: Common components – USB Audio 3.0 Device Class Definition Terminal Types (IEC 62680-1-8:201X)

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

- EN 55016-1-3:2006/prA2:2018 en  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-3: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Disturbance power  
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 1-3: Uređaji za mjerenje radiosmetnja i otpornosti – Pomoćna oprema – Snaga smetnja

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

- prEN IEC 63009:2018 en  
Ultrasonics – Physiotherapy systems – Field specifications and methods of measurement in the frequency range 20 kHz to 0.5 MHz (IEC 63009:201X)  
Ultrazvuk – Psihoterapijski sustavi – Značajke polja i mjerne metode u frekvencijskom području 20 kHz do 0,5 MHz (IEC 63009:201X)

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

- prEN 15493 en  
Candles – Specification for fire safety  
Svijećе – Specifikacija za sigurnost od požara
- prEN 15494 en  
Candles – Product safety labels  
Svijećе – Oznake sigurnosti proizvoda

### **HZN/TU I2, Strojарstvo 2**

- prEN ISO 11665-11 en  
Measurement of radioactivity in the environment – Air: radon-222 – Part 11: Test method for soil gas with sampling at depth (ISO 11665-11:2016)
- prEN ISO 12183 en  
Nuclear fuel technology – Controlled-potential coulometric assay of plutonium (ISO 12183:2016)
- prEN ISO 12799 en  
Nuclear energy – Determination of nitrogen content in UO<sub>2</sub>, (U, Gd)O<sub>2</sub> and (U, Pu)O<sub>2</sub> sintered pellets – Inert gas extraction and conductivity detection method (ISO 12799:2015)
- prEN ISO 12800 en  
Nuclear fuel technology – Guidelines on the measurement of the specific surface area of uranium oxide powders by the BET method (ISO 12800:2017)
- prEN ISO 16637 en  
Radiological protection – Monitoring and internal dosimetry for staff members exposed to medical radionuclides as unsealed sources (ISO 16637:2016)
- prEN ISO 16639 en  
Surveillance of the activity concentrations of airborne radioactive substances in the workplace of nuclear facilities (ISO 16639:2017)
- prEN ISO 16645 en  
Radiological protection – Medical electron accelerators – Requirements and recommendations for shielding design and evaluation (ISO 16645:2016)
- prEN ISO 18417 en  
Iodine charcoal sorbents for nuclear facilities – Method for defining sorption capacity index (ISO 18417:2017)
- prEN ISO 21484 en  
Nuclear Energy – Fuel technology – Determination of the O/M ratio in MOX pellets by the gravimetric method (ISO 21484:2017)
- prEN ISO 22765 en  
Nuclear fuel technology – Sintered (U, Pu)O<sub>2</sub> pellets – Guidance for ceramographic preparation for microstructure examination (ISO 22765:2016)

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

- prEN 12472 en  
Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items  
Metoda za simulaciju ubrzanog trošenja i korozije za određivanje otpuštanja nikla iz prevučениh predmeta

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

- EN 16214-1:2012/prA1 en  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology  
Kriteriji održivosti za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, kriteriji, indikatori i sredstva za provjeru – 1. dio: Nazivlje
- EN 16214-4:2013/prA1 en  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach  
Kriteriji održivosti za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, kriteriji, indikatori i sredstva za provjeru – 4. dio: Metode izračuna bilance emisije stakleničkih plinova pomoću pristupa analize životnoga ciklusa

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

- prEN ISO 9873 en  
Dentistry – Intra-oral mirrors (ISO/FDIS 9873:2018)  
Stomatologija – Intraoralna ogledala (ISO/FDIS 9873:2018)

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

- FprEN 2451 en  
Aerospace series – Steel FE-PL73 – 1230 MPa
- FprEN 2476 en  
Aerospace series – Steel FE-PL74 –  $1\ 100\ \text{MPa} \leq R_m \leq 1\ 300\ \text{MPa}$   
– Forgings –  $De \leq 100\ \text{mm}$
- FprEN 2502 en  
Aerospace series – Steel FE-PM66 –  $930\ \text{MPa} \leq R_m \leq 1\ 080\ \text{MPa}$   
– Bars –  $De \leq 150\ \text{mm}$
- FprEN 2503 en  
Aerospace series – Steel FE-PM66 –  $930\ \text{MPa} \leq R_m \leq 1\ 080\ \text{MPa}$   
– Forgings –  $De \leq 150\ \text{mm}$
- FprEN 3155-080 en  
Aerospace series – Electrical contacts used in elements of connection – Part 080: Contacts size 22 for EN 2997, electrical, male, type A, crimp, class T – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 080: Kontakti veličine 22 za normu EN 2997, električni, muški, tip A, za krimpiranje, razreda T – Norma za proizvod
- FprEN 3363 en  
Aerospace series – Steel FE-CM68 – Solution treated  
–  $R_m \geq 485\ \text{MPa}$  – Castings – Sand or investment casting
- FprEN 3481 en  
Aerospace series – Steel FE-PA13 – Annealed – Reference heat treatment: Softened – Hollow bars – 5
- FprEN 3482 en  
Aerospace series – Steel FE-PA13 – Annealed – Reference heat treatment: softened – Forging stock –  $De \leq 100\ \text{mm}$
- FprEN 4867 en  
Aerospace series – Laser surface marking by discoloration
- FprEN 6049-004 en  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 004: Braided, tubular, high expandable – Product standard

## HZN/TU U1, *Opća elektrotehnika 1*

- prEN 50980-1:2018 en  
Remote alcohol monitoring devices – Test methods and performance requirements – Part 1: Instruments for assessment programmes  
Uređaji za daljinski nadzor konzumacije alkohola – Metode ispitivanja i izvedbeni zahtjevi – 1. dio: Uređaji u programima procjene
- prEN IEC 62135-2:2018 en  
Resistance welding equipment – Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62135-2:201X)  
Oprema za elektrootporno zavarivanje – 2. dio: Zahtjevi za elektromagnetsku kompatibilnost (EMC) (IEC 62135-2:201X)

## HZN/TU V1, *Elektronika 1*

- prEN IEC 60384-11:2018 en  
Fixed capacitors for use in electronic equipment – Part 11: Sectional specification – Fixed polyethylene-terephthalate film dielectric metal foil d.c. capacitors (IEC 60384-11:201X)
- prEN IEC 61333:2018 en  
Marking on ferrite cores (IEC 61333:201X)
- prEN IEC 61754-4:2018 en  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 4: Type SC connector family (IEC 61754-4:201X)
- prEN IEC 61754-6:2018 en  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6: Type MU connector family (IEC 61754-6:201X)
- EN 140401-804:2011/FprA2:2018 en  
Detail Specification: Fixed low power film high stability SMD resistors – Rectangular – Stability classes 0,1; 0,25  
Iscrpna specifikacija: Nepromjenljivi tankoslojni otpornici male snage velike postojanosti za površinsku montažu (SMD) – Pravokutni – Razredi postojanosti 0,1; 0,25

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

- prEN 45557 en  
General method for assessing the proportion of recycled material content in energy-related products
- EN 50632-2-6:2015/prA1:2018 en  
Electric motor-operated tools – dust measurement procedure – Part 2-6: Particular requirements for hammers  
Elektromotorni alati – Postupak mjerenja prašine – Dio 2-6: Posebni zahtjevi za čekiče

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

- HRN EN 646:2008 en  
Papir i karton koji dolaze u kontakt s prehrambenim proizvodima – Određivanje postojanosti boje obojenog papira i kartona (EN 646:2006)  
Paper and board intended to come into contact with foodstuffs – Determination of colour fastness of dyed paper and board (EN 646:2006)  
- zamijenjena s: HRN EN 646:2018
- HRN EN 648:2009 en  
Papir i karton koji dolaze u kontakt s prehrambenim proizvodima – Određivanje postojanosti papira i kartona bijelih fluorescentnim optičkim bjelilima (EN 648:2006)  
Paper and board intended to come into contact with foodstuffs – Determination of the fastness of fluorescent whitened paper and board (EN 648:2006)  
- zamijenjena s: HRN EN 648:2018
- HRN EN 12498:2009 en  
Papir i karton – Papir i karton koji dolazi u kontakt s prehrambenim proizvodima – Određivanje kadmija i olova u vodenom ekstraktu (EN 12498:2005)  
Paper and board – Paper and board intended to come into contact with foodstuffs – Determination of cadmium and lead in an aqueous extract (EN 12498:2005)  
- zamijenjena s: HRN EN 12498:2018

## HZN/TO 22, *Cestovna vozila*

- HRN EN 1647:2012 en  
Vozila za odmor – Pokretni domovi za stanovanje – Smještajni zahtjevi koji se odnose na zdravlje i sigurnost (EN 1647:2012)  
Leisure accommodation vehicles – Caravan holiday homes – Habitation requirements relating to health and safety (EN 1647:2012)  
- zamijenjena s: HRN EN 1647:2018

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

- HRN EN 589:2012 hr  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja (EN 589:2008+A1:2012)  
Automotive fuels – LPG – Requirements and test methods (EN 589:2008+A1:2012)  
- zamijenjena s: HRN EN 589:2018
- HRN EN ISO 12156-1:2016 en  
Dizelsko gorivo – Ocjenjivanje mazivosti uporabom vibracijskog uređaja visoke frekvencije (HFRR) – 1. dio: Ispitna metoda (ISO 12156-1:2016; EN ISO 12156-1:2016)  
Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method (ISO 12156-1:2016; EN ISO 12156-1:2016)  
- zamijenjena s: HRN EN ISO 12156-1:2018



HRN EN 16709:2015 en  
Goriva za motorna vozila – Dizelsko gorivo s velikom količinom FAME (B20 ili B30) – Zahtjevi i metode ispitivanja (EN 16709:2015)  
Automotive fuels – High FAME diesel fuel (B20 or B30) – Requirements and test methods (EN 16709:2015)  
- zamijenjena s: HRN EN 16709:2018

HRN EN 16709:2015/Ispr.1:2016 en  
Goriva za motorna vozila – Dizelsko gorivo s velikom količinom FAME (B20 ili B30) – Zahtjevi i metode ispitivanja (EN 16709:2015/AC:2016)  
Automotive fuels – High FAME diesel fuel (B20 and B30) – Requirements and test methods (EN 16709:2015/AC:2016)  
- zamijenjena s: HRN EN 16709:2018

HRN EN 16734:2016 en  
Goriva za motorna vozila – Dizelsko gorivo B10 – Zahtjevi i metode ispitivanja (EN 16734:2016)  
Automotive fuels – Automotive B10 diesel fuel – Requirements and test methods (EN 16734:2016)  
- zamijenjena s: HRN EN 16734:2018

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

HRN EN ISO 4869-2/AC:2007 en  
Akustika – Štitnici sluha – 2. dio: Procjena postojećih vrednovanih razina zvučnog tlaka A pri nošenju štitnika sluha (ISO 4869-2:1994/Cor 1:2006; EN ISO 4869-2:1995/AC:2007)  
Acoustics – Hearing protectors – Part 2: Estimation of effective A-weighted sound pressure levels when hearing protectors are worn (ISO 4869-2:1994/Cor 1:2006; EN ISO 4869-2:1995/AC:2007)  
- zamijenjena s: HRN EN ISO 4869-2:2018

HRN EN ISO 4869-2:2001 en  
Akustika – Štitnici sluha – 2. dio: Procjena postojećih vrednovanih razina zvučnog tlaka A pri nošenju štitnika sluha (ISO 4869-2:1994; EN ISO 4869-2:1995)  
Acoustics – Hearing protectors – Part 2: Estimation of effective A-weighted sound pressure levels when hearing protectors are worn (ISO 4869-2:1994; EN ISO 4869-2:1995)  
- zamijenjena s: HRN EN ISO 4869-2:2018

HRN EN ISO 7779:2010 en  
Akustika – Mjerenje buke koju emitira informatička i telekomunikacijska oprema (ISO 7779:2010; EN ISO 7779:2010)  
Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2010; EN ISO 7779:2010)  
- zamijenjena s: HRN EN ISO 7779:2018

HRN EN 24869-1:1999 en  
Akustika – Štitnici sluha – Subjektivna metoda za mjerenje gušenja zvuka (ISO 4869-1:1990; EN 24869-1:1992)  
Acoustics – Hearing protectors – Subjective method for the measurement of sound attenuation (ISO 4869-1:1990; EN 24869-1:1992)  
- zamijenjena s: HRN EN ISO 4869-1:2018

HRN EN 29053:2008 en  
Akustika – Materijali za akustičku primjenu – Određivanje otpora na strujanje (ISO 9053:1991; EN 29053:1993)  
Acoustics – Materials for acoustical applications – Determination of airflow resistance (ISO 9053:1991; EN 29053:1993)  
- zamijenjena s: HRN EN ISO 9053-1:2018

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

HRN EN 1011-3:2001 en  
Zavarivanje – Preporuke za zavarivanje metalnih materijala – 3. dio: Elektrolučno zavarivanje nehrđajućih čelika (EN 1011-3:2000)  
Welding – Recommendations for welding of metallic materials – Part 3: Arc welding of stainless steels (EN 1011-3:2000)  
- zamijenjena s: HRN EN 1011-3:2018

HRN EN 1011-3:2001/A1:2008 en  
Zavarivanje – Preporuke za zavarivanje metalnih materijala – 3. dio: Elektrolučno zavarivanje nehrđajućih čelika (EN 1011-3:2000/A1:2003)  
Welding – Recommendations for welding of metallic materials – Part 3: Arc welding of stainless steels (EN 1011-3:2000/A1:2003)  
- zamijenjena s: HRN EN 1011-3:2018

HRN EN 1011-6:2008 en  
Zavarivanje – Preporuka za zavarivanje metalnih materijala – 6. dio: Zavarivanje laserom (EN 1011-6:2005)  
Welding – Recommendation for welding of metallic materials – Part 6: Laser beam welding (EN 1011-6:2005)  
- zamijenjena s: HRN EN 1011-6:2018

HRN EN 1708-2:2001 en  
Zavarivanje – Pojedini o osnovnim oblicima zavarenih spojeva na čeliku – 2. dio: Dijelovi koji nisu pod unutrašnjim tlakom (EN 1708-2:2000)  
Welding – Basic weld joint details in steel – Part 2: None internal pressurized components (EN 1708-2:2000)  
- zamijenjena s: HRN EN 1708-2:2018

HRN EN ISO 17640:2017 en  
Nerazorno ispitivanje zavara – Ultrazvučno ispitivanje – Tehnike, razine ispitivanja i ocjenjivanje (ISO 17640:2017; EN ISO 17640:2017)  
Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels, and assessment (ISO 17640:2017; EN ISO 17640:2017)  
- zamijenjena s: HRN EN ISO 17640:2018

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

HRN ISO 28560-2:2017 en  
Informacije i dokumentacija – RFID u knjižnicama – 2. dio: Kodiranje RFID elemenata podataka na temelju pravila iz norme ISO/IEC 15962 (ISO 28560-2:2014)  
Information and documentation – RFID in libraries – Part 2: Encoding of RFID data elements based on rules from ISO/IEC 15962 (ISO 28560-2:2014)  
- zamijenjena s: HRN ISO 28560-2:2018

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

HRN EN 13136:2013 en  
Rashladni sustavi i dizalice topline – Uređaji za rasterećenje od tlaka i pripadajući cjevovodi – Metode proračuna (EN 13136:2013)  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation (EN 13136:2013)  
- zamijenjena s: HRN EN 13136:2018

## **HZN/TO 92, Zaštita od požara**

HRN EN 15254-4:2011 en  
Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 4. dio: Ostakljene konstrukcije (EN 15254-4:2008+A1:2011)  
Extended application of results from fire resistance tests – Non-loadbearing walls – Part 4: Glazed constructions (EN 15254-4:2008+A1:2011)  
- zamijenjena s: HRN EN 15254-4:2018

## **HZN/TO 136, Namještaj**

HRN EN 1022:2008 en  
Kućni namještaj – Namještaj za sjedenje – Određivanje stabilnosti (EN 1022:2005)  
Domestic furniture – Seating – Determination of stability (EN 1022:2005)  
- zamijenjena s: HRN EN 1022:2018

HRN EN 1335-2:2009 en  
Uredski namještaj – Uredske radne stolice – 2. dio: Sigurnosni zahtjevi (EN 1335-2:2009)  
Office furniture – Office work chair – Part 2: Safety requirements (EN 1335-2:2009)  
- zamijenjena s: HRN EN 1335-2:2018

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

HRN EN ISO 11299-1:2013 en  
Plastični cijevni sustavi za obnavljanje podzemnih plinskih mreža – 1. dio: Općenito (ISO 11299-1:2011; EN ISO 11299-1:2013)  
Plastics piping systems for renovation of underground gas supply networks – Part 1: General (ISO 11299-1:2011; EN ISO 11299-1:2013)  
- zamijenjena s: HRN EN ISO 11299-1:2018



HRN EN ISO 11299-3:2013 en

Plastični cijevni sustavi za obnavljanje podzemnih plinskih mreža – 3. dio: Oblaganje s prijanjajućim cijevima (ISO 11299-3:2011; EN ISO 11299-3:2013)  
Plastics piping systems for renovation of underground gas supply networks – Part 3: Lining with close-fit pipes (ISO 11299-3:2011; EN ISO 11299-3:2013)  
- zamijenjena s: HRN EN ISO 11299-3:2018

#### **HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

HRN EN ISO 15681-2:2008 en

Kakvoća vode – Određivanje ortofosfata i ukupnog fosfora protočnom analizom – 2. dio: Metoda kontinuirane protočne analize (ISO 15681-2:2003; EN ISO 15681-2:2004)  
Water quality – Determination of orthophosphate and total phosphorus contents by flow analysis (FIA and CFA) – Part 2: Method by continuous flow analysis (CFA) (ISO 15681-2:2003; EN ISO 15681-2:2004)  
- zamijenjena s: HRN EN ISO 15681-2:2018

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

HRN EN ISO 10634:2008 en

Kakvoća vode – Upute za pripremu i obradu organskih tvari slabo topljivih u vodi pri procjeni njihove biološke razgradljivosti (ISO 10634:1995; EN ISO 10634:1995)  
Water quality – Guidance for the preparation and treatment of poorly water-soluble organic compounds for the subsequent evaluation of their biodegradability in an aqueous medium (ISO 10634:1995; EN ISO 10634:1995)  
- zamijenjena s: HRN EN ISO 10634:2018

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

HRN EN ISO 20685:2010 en

3-D metodologije skeniranja za međunarodno kompatibilno pohranjivanje antropometrijskih podataka (ISO 20685:2010; EN ISO 20685:2010)  
3-D scanning methodologies for internationally compatible anthropometric databases (ISO 20685:2010; EN ISO 20685:2010)  
- zamijenjena s: HRN EN ISO 20685-1:2018

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

HRN EN 384:2016 en

Drvene konstrukcije – Određivanje karakterističnih vrijednosti mehaničkih svojstava i gustoće (EN 384:2016)  
Structural timber – Determination of characteristic values of mechanical properties and density (EN 384:2016)  
- zamijenjena s: HRN EN 384:2018

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

HRN ISO 9211-1:2011 en

Optika i fotonika – Optički slojevi – 1. dio: Definicije (ISO 9211-1:2010)  
Optics and photonics – Optical coatings – Part 1: Definitions (ISO 9211-1:2010)  
- zamijenjena s: HRN ISO 9211-1:2018

HRN EN ISO 11145:2016 en

Optika i fotonika – Laseri i pridružena oprema – Terminološki rječnik i simboli (ISO 11145:2016; EN ISO 11145:2016)  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols (ISO 11145:2016; EN ISO 11145:2016)  
- zamijenjena s: HRN EN ISO 11145:2018

HRN EN ISO 11979-1:2014 en,fr,de

Oftalmološki implantanti – Intraokularne leće – 1. dio: Terminološki rječnik (ISO 11979-1:2012; EN ISO 11979-1:2012)  
Ophthalmic implants – Intraocular lenses – Part 1: Vocabulary (ISO 11979-1:2012; EN ISO 11979-1:2012)  
- zamijenjena s: HRN EN ISO 11979-1:2018

HRN EN ISO 13694:2016 en

Optika i fotonika – Laseri i pridružena oprema – Ispitne metode za raspodjelu gustoće snage (energije) laserskog snopa (ISO 13694:2015; EN ISO 13694:2015)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution (ISO 13694:2015; EN ISO 13694:2015)  
- zamijenjena s: HRN EN ISO 13694:2018

#### **HZN/TO 502, Plinski uređaji**

HRN EN 437:2009 en

Ispitni plinovi – Ispitni tlakovi – Kategorije uređaja (EN 437:2003+A1:2009)  
Test gases – Test pressures – Appliance categories (EN 437:2003+A1:2009)  
- zamijenjena s: HRN EN 437:2018

HRN EN 13203-2:2015 en

Kućanski plinski uređaji za grijanje vode – 2. dio: Ocjenjivanje potrošnje energije (EN 13203-2:2015)  
Gas-fired domestic appliances producing hot water – Part 2: Assessment of energy consumption (EN 13203-2:2015)  
- zamijenjena s: HRN EN 13203-2:2018

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

HRN EN ISO 4945:2010 en

Čelik – Određivanje sadržaja dušika – Spektrofotometrijska metoda (ISO 4945:1977; EN ISO 4945:2009)  
Steel – Determination of nitrogen content – Spectrophotometric method (ISO 4945:1977; EN ISO 4945:2009)  
- zamijenjena s: HRN EN ISO 4945:2018

HRN EN 10036:2008 en

Kemijska analiza materijala na bazi željeza – Određivanje ukupnog sadržaja ugljika u čelicima i željeznim lijevovima – Gravimetrijska metoda poslije spaljivanja u struji kisika (EN 10036:1989)  
Chemical analysis of ferrous materials – Determination of total carbon in steels and irons – Gravimetric method after combustion in a stream of oxygen (EN 10036:1989)  
- bez zamjene

HRN EN 10058:2007 en

Toplo valjane plosnate čelične šipke za opću namjenu – Mjere i dopuštena odstupanja oblika i mjera (EN 10058:2003)  
Hot rolled flat steel bars for general purposes – Dimensions and tolerances on shape and dimensions (EN 10058:2003)  
- zamijenjena s: HRN EN 10058:2018

HRI CEN/TR 10261:2014 en

Željezni ljev i čelik – Europske norme za određivanje kemijskog sastava (CEN/TR 10261:2013)  
Iron and steel – European standards for the determination of chemical composition (CEN/TR 10261:2013)  
- zamijenjena s: HRI CEN/TR 10261:2018

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

HRN ISO 1458:2003 en

Metalne prevlake – Elektronanesene prevlake od nikla (ISO 1458:2002)  
Metallic coatings – Electrodeposited coatings of nickel (ISO 1458:2002)  
- zamijenjena s: HRN EN ISO 1456:2010

HRN ISO 4522-1:2000 en

Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka srebra i srebrih legura – 1. dio: Određivanje debljine prevlake (ISO 4522-1:1985)  
Metallic coatings – Test methods for electrodeposited silver and silver alloy coatings – Part 1: Determination of coating thickness (ISO 4522-1:1985)  
- zamijenjena s: HRN EN ISO 4521:2008

HRN ISO 4522-2:2000 en

Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka srebra i srebrih legura – 2. dio: Ispitivanje prijanjanja (ISO 4522-2:1985)  
Metallic coatings – Test methods for electrodeposited silver and silver alloy coatings – Part 2: Adhesion tests (ISO 4522-2:1985)  
- zamijenjena s: HRN EN ISO 4521:2008

HRN ISO 4522-3:2000 en

Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka srebra i srebrih legura – 3. dio: Određivanje prisustva preostalih soli (ISO 4522-3:1988)  
Metallic coatings – Test methods for electrodeposited silver and silver alloy coatings – Part 3: Determination of the presence of residual salts (ISO 4522-3:1988)  
- zamijenjena s: HRN EN ISO 4521:2008

HRN ISO 4523:2000 en  
Metalne prevlake – Elektronanesene prevlake zlata i zlatnih legura za industrijsku primjenu (ISO 4523:1985)  
Metallic coatings – Electrodeposited gold and gold alloy coatings for engineering purposes (ISO 4523:1985)  
- zamijenjena s: HRN EN ISO 27874:2008

HRN ISO 4524-1:2000 en  
Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka zlata i zlatnih legura – 1. dio: Određivanje debljine prevlake (ISO 4524-1:1985)  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 1: Determination of coating thickness (ISO 4524-1:1985)  
- zamijenjena s: HRN EN ISO 27874:2008

HRN ISO 4524-4:2000 en  
Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka zlata i zlatnih legura – 4. dio: Određivanje sadržaja količine zlata (ISO 4524-4:1985)  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 4: Determination of gold content (ISO 4524-4:1985)  
- zamijenjena s: HRN EN ISO 27874:2008

HRN ISO 4524-5:2000 en  
Metalne prevlake – Metode ispitivanja elektronanesenih prevlaka zlata i zlatnih legura – 5. dio: Ispitivanje prijanjanja (ISO 4524-5:1985)  
Metallic coatings – Test methods for electrodeposited gold and gold alloy coatings – Part 5: Adhesion tests (ISO 4524-5:1985)  
- zamijenjena s: HRN EN ISO 27874:2008

HRN ISO 4531-1:1999 en  
Staklasti i porculanski emajli – Otpuštanje olova i kadmija iz emajliranog posuđa koje dolazi u kontakt s hranom – 1. dio: Metoda ispitivanja (ISO 4531-1:1998)  
Vitreous and porcelain enamels – Release of lead and cadmium from enamelled ware in contact with food – Part 1: Method of test (ISO 4531-1:1998)  
- zamijenjena s: HRN EN ISO 4531:2018

HRN ISO 4531-2:1999 en  
Staklasti i porculanski emajli – Otpuštanje olova i kadmija iz emajliranog posuđa koje dolazi u kontakt s hranom – 2. dio: Dopuštene granice (ISO 4531-2:1998)  
Vitreous and porcelain enamels – Release of lead and cadmium from enamelled ware in contact with food – Part 2: Permissible limits (ISO 4531-2:1998)  
- zamijenjena s: HRN EN ISO 4531:2018

HRN EN 12474:2001 en  
Katodna zaštita podzemskih cjevovoda (EN 12474:2001)  
Cathodic protection of submarine pipelines (EN 12474:2001)  
- bez zamjene

HRN EN 13144:2003 en  
Metalne i ostale anorganske prevlake – Metoda kvantitativnog mjerenja prijanjanja vlačnim ispitivanjem (EN 13144:2003)  
Metallic and other inorganic coatings – Method for quantitative measurement of adhesion by tensile test (EN 13144:2003)  
- zamijenjena s: HRN EN 13144:2018

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

HRN EN ISO 11961:2011 en  
Industrija nafte i prirodnoga plina – Čelična cijev za bušenje (ISO 11961:2008+Cor 1:2009; EN ISO 11961:2008+AC:2009)  
Petroleum and natural gas industries – Steel drill pipe (ISO 11961:2008+Cor 1:2009; EN ISO 11961:2008+AC:2009)  
- zamijenjena s: HRN EN ISO 11961:2018

HRN EN ISO 20815:2010 en  
Industrija nafte, petrokemije i prirodnog plina – Osiguranje proizvodnje i upravljanje pouzdanošću (ISO 20815:2008, ispravljena verzija 2009-06-15; EN ISO 20815:2010)  
Petroleum, petrochemical and natural gas industries – Production assurance and reliability management (ISO 20815:2008, Corrected version 2009-06-15; EN ISO 20815:2010)  
- zamijenjena s: HRN EN ISO 20815:2018

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

HRN ISO 1070:2007 en  
Mjerenje protoka tekućine u otvorenim kanalima – Metoda pada vodnog lica (ISO 1070:1992+Amd 1:1997)  
Liquid flow measurement in open channels – Slope-area method (ISO 1070:1992+Amd 1:1997)  
- zamijenjena s: HRN ISO 1070:2018

HRN EN 1434-1:2015 en  
Mjerila toplinske energije – 1. dio: Opći zahtjevi (EN 1434-1:2015)  
Heat meters – Part 1: General requirements (EN 1434-1:2015)  
- zamijenjena s: HRN EN 1434-1:2018

HRN EN 1434-2:2015 en  
Mjerila toplinske energije – 2. dio: Konstrukcijski zahtjevi (EN 1434-2:2015)  
Heat meters – Part 2: Constructional requirements (EN 1434-2:2015)  
- zamijenjena s: HRN EN 1434-2:2018

HRN EN 1434-4:2015 en  
Mjerila toplinske energije – 4. dio: Ispitivanja prilikom odobranja tipa (EN 1434-4:2015)  
Heat meters – Part 4: Pattern approval tests (EN 1434-4:2015)  
- zamijenjena s: HRN EN 1434-4:2018

## **HZN/TO 515, Žičare, uspinjače i vučnice**

HRN CEN/TR 14819-1:2006 en  
Sigurnosne preporuke za žičare za prijevoz osoba – Sprečavanje požara – 1. dio: Uspinjače u tunelima (CEN/TR 14819-1:2004)  
Safety recommendations for cableway installations designed to carry persons – Prevention and fight against fire – Part 1: Funicular railways in tunnels (CEN/TR 14819-1:2004)  
- zamijenjena s: HRN EN 17064:2018

HRN CEN/TR 14819-2:2008 en  
Sigurnosne preporuke za žičare za prijevoz osoba – Sprečavanje požara – 2. dio: Druge uspinjače i postrojenja (CEN/TR 14819-2:2005)  
Safety recommendations for cableway installations designed to carry persons – Prevention and fight against fire – Part 2: Other funicular railways and other installations (CEN/TR 14819-2:2005)  
- zamijenjena s: HRN EN 17064:2018

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

HRN EN ISO 23161:2011 en  
Kvaliteta tla – Određivanje odabranih organokositrenih spojeva – Plinskokromatografska metoda (ISO 23161:2009; EN ISO 23161:2011)  
Soil quality – Determination of selected organotin compounds – Gas-chromatographic method (ISO 23161:2009; EN ISO 23161:2011)  
- zamijenjena s: HRN EN ISO 23161:2018

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

HRN EN 14198:2016 en  
Željeznički sustav – Kočenje – Zahtjevi za sustave kočenja vlakova vučenih lokomotivama (EN 14198:2016)  
Railway applications – Braking – Requirements for the brake system of trains hauled by locomotives (EN 14198:2016)  
- zamijenjena s: HRN EN 14198:2018

HRN EN 14531-1:2016 en  
Željeznički sustav – Metode proračuna zaustavnih puteva, puteva usporenja i pritvrdnog kočenja – 1. dio: Opći algoritmi s uporabom proračuna srednje vrijednosti za motorne vlakove ili pojedinačna vozila (EN 14531-1:2015)  
Railway applications – Methods for calculation of stopping and slowing distances and immobilisation braking – Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles (EN 14531-1:2015)  
- zamijenjena s: HRN EN 14531-1:2018

HRN EN 14587-1:2008 en  
Željeznički sustav – Željeznički gornji ustroj – Elektrootporno zavarivanje tračnica – 1. dio: Zavarivanje novih tračnica kvalitete R220, R260, R260Mn i R350HT na stabilnom postrojenju (EN 14587-1:2007)  
Railway applications – Track – Flash butt welding of rails – Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant (EN 14587-1:2007)  
- zamijenjena s: HRN EN 14587-1:2018

HRN EN 15877-1:2012 en

Željeznički sustav – Oznake na željezničkim vozilima – 1. dio: Teretni vagoni (EN 15877-1:2012)  
Railway applications – Marking on railway vehicles – Part 1: Freight wagons (EN 15877-1:2012)  
- zamijenjena s: HRN EN 15877-1:2018

HRN EN 16186-1:2015 en

Željeznički sustav – Upravljačnica – 1. dio: Antropometrijski podaci i vidljivost (EN 16186-1:2014)  
Railway applications – Driver's cab – Part 1: Anthropometric data and visibility (EN 16186-1:2014)  
- zamijenjena s: HRN EN 16186-1:2018

HRN EN 16186-3:2016 en

Željeznički sustav – Upravljačnica – 3. dio: Projektiranje zaslona (EN 16186-3:2016)  
Railway applications – Driver's cab – Part 3: Design of displays (EN 16186-3:2016)  
- zamijenjena s: HRN EN 16186-3:2018

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

HRN EN 438-8:2010 en

Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajeno se nazivaju laminati) – 8. dio: Razredba i specifikacije za dizajniranje laminata (EN 438-8:2009)  
High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (Usually called Laminates) – Part 8: Classification and specifications for design laminates (EN 438-8:2009)  
- zamijenjena s: HRN EN 438-8:2018

HRN EN ISO 20753:2014 en

Plastika – Ispitni uzorci (ISO 20753:2008; EN ISO 20753:2014)  
Plastics – Test specimens (ISO 20753:2008; EN ISO 20753:2014)  
- zamijenjena s: HRN EN ISO 20753:2018

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

HRN EN 14885:2015 en

Kemijski dezinficijensi i antiseptici – Primjena europskih norma za kemijske dezinficijense i antiseptike (EN 14885:2015)  
Chemical disinfectants and antiseptics – Application of European Standards for chemical disinfectants and antiseptics (EN 14885:2015)  
- zamijenjena s: HRN EN 14885:2018

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

HRN EN 12193:2008 en

Svjetlo i rasvjeta – Rasvjeta sportskih objekata (EN 12193:2007)  
Light and lighting – Sports lighting (EN 12193:2007)  
- zamijenjena s: HRN EN 12193:2018

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

HRN EN 14516:2015 en

Kade za upotrebu u kućanstvu (EN 14516:2015)  
Baths for domestic purposes (EN 14516:2015)  
- zamijenjena s: HRN EN 14516:2018

HRN EN 14527:2016 en

Tuš-kade za upotrebu u kućanstvu (EN 14527:2016)  
Shower trays for domestic purposes (EN 14527:2016)  
- zamijenjena s: HRN EN 14527:2018

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

HRS CEN/TS 16826-2:2015 en

Molekularne in vitro dijagnostičke pretrage – Specifikacije za prethodne ispitne postupke za smrznuto tkivo – 2. dio: Izolirani proteini (CEN/TS 16826-2:2015)  
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for snap frozen tissue – Part 2: Isolated proteins (CEN/TS 16826-2:2015)  
- zamijenjena s: HRN EN ISO 20184-2:2018

HRN EN ISO 80369-1:2011 en

Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 1. dio: Opći zahtjevi (ISO 80369-1:2010; EN ISO 80369-1:2010)  
Small bore connectors for liquids and gases in healthcare applications – Part 1: General requirements (ISO 80369-1:2010; EN ISO 80369-1:2010)  
- zamijenjena s: HRN EN ISO 80369-1:2018

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

HRN EN 358:2001 en

Osobna zaštitna oprema za sigurnosno vezanje pri radu i sprečavanje pada s visine – Sigurnosni pojasevi za pridržavanje pri radu i povezna užad za pridržavanje s leđa i sigurnosno vezanje pri radu (EN 358:1999)  
Personal protective equipment for work positioning and prevention of falls from a height – Belts for work positioning and restraint and work positioning lanyards (EN 358:1999)  
- zamijenjena s: HRN EN 358:2018

HRN EN 363:2008 en

Osobna zaštitna oprema protiv pada s visine – Sustavi za osobnu zaštitu od pada (EN 363:2008)  
Personal fall protection equipment – Personal fall protection systems (EN 363:2008)  
- zamijenjena s: HRN EN 363:2018

HRN EN ISO 4007:2012 en,fr,de

Osobna zaštitna oprema – Zaštita očiju i lica – Terminološki rječnik (ISO 4007:2012; EN ISO 4007:2012)  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2012; EN ISO 4007:2012)  
- zamijenjena s: HRN EN ISO 4007:2018

HRN EN 13832-2:2007 en

Obuća za zaštitu od kemikalija – 2. dio: Zahtjevi za obuću otpornu na kemikalije pod laboratorijskim uvjetima (EN 13832-2:2006)  
Footwear protecting against chemicals – Part 2: Requirements for footwear resistant to chemicals under laboratory conditions (EN 13832-2:2006)  
- zamijenjena s: HRN EN 13832-2:2018

HRN EN 13832-3:2007 en

Obuća za zaštitu od kemikalija – 3. dio: Zahtjevi za obuću vrlo otpornu na kemikalije pod laboratorijskim uvjetima (EN 13832-3:2006)  
Footwear protecting against chemicals – Part 3: Requirements for footwear highly resistant to chemicals under laboratory conditions (EN 13832-3:2006)  
- zamijenjena s: HRN EN 13832-3:2018

### **HZN/TO 558, *Zaštita dišnih putova***

HRN EN 148-1:2002 en

Zaštitne naprave za disanje – Navoји za maske – 1. dio: Standardni spoj s navojem (EN 148-1:1999)  
Respiratory protective devices – Threads for facepieces – Part 1: Standard thread connection (EN 148-1:1999)  
- zamijenjena s: HRN EN 148-1:2018

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

HRN EN ISO 32100:2011 en

Gumom ili plastikom naslojen plošni tekstil – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na savijanje metodom fleksometra (ISO 32100:2010; EN ISO 32100:2010)  
Rubber- or plastics-coated fabrics – Physical and mechanical tests – Determination of flex resistance by the flexometer method (ISO 32100:2010; EN ISO 32100:2010)  
- zamijenjena s: HRN EN ISO 32100:2018

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

HRN EN 913:2009 en

Gimnastička oprema – Opći sigurnosni zahtjevi i metode ispitivanja (EN 913:2008)  
Gymnastic equipment – General safety requirements and test methods (EN 913:2008)  
- zamijenjena s: HRN EN 913:2018

HRN EN 15288-1:2010 en

Bazeni – 1. dio: Sigurnosni zahtjevi za projektiranje (EN 15288-1:2008+A1:2010)  
Swimming pools – Part 1: Safety requirements for design (EN 15288-1:2008+A1:2010)  
- zamijenjena s: HRN EN 15288-1:2018

HRN EN 15288-2:2008 en

Bazeni – 2. dio: Sigurnosni zahtjevi za upravljanje (EN 15288-2:2008)  
Swimming pools – Part 2: Safety requirements for operation (EN 15288-2:2008)  
- zamijenjena s: HRN EN 15288-2:2018



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

- HRN EN 60534-8-4:2008 en  
Regulacijski ventili za industrijske procese – Dio 8-4: Razmatranje buke – Predviđanje buke generirane hidrodinamičkim protokom (IEC 60534-8-4:2005+Corr.1:2006; EN 60534-8-4:2005)  
Industrial-process control valves – Part 8-4: Noise considerations – Prediction of noise generated by hydrodynamic flow (IEC 60534-8-4:2005+Corr.1:2006; EN 60534-8-4:2005)  
- zamijenjena s: HRN EN 60534-8-4:2015
- HRI CLC/TR 61804-4:2008 en  
Funkcijski blokovi (FB) za vođenje procesa – 4. dio: Opis elektroničkih uređaja (EDD) upute za međudjelovanje (IEC/TR 61804-4:2006; CLC/TR 61804-4:2007)  
Function blocks (FB) for process control – Part 4: EDD interoperability guideline (IEC/TR 61804-4:2006; CLC/TR 61804-4:2007)  
- zamijenjena s: HRN EN 61804-4:2016

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

- HRS CEN/CLC ISO/IEC/TS 17021-2:2016 en  
Ocjenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 2. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja okolišem (ISO/IEC/TS 17021-2:2012; CEN/CLC ISO/IEC/TS 17021-2:2016)  
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/TS 17021-2:2012; CEN/CLC ISO/IEC/TS 17021-2:2016)  
- zamijenjena s: HRN EN ISO/IEC 17021-2:2018
- HRS CEN/CLC ISO/IEC/TS 17021-3:2016 en  
Ocjenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 3. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja kvalitetom (ISO/IEC/TS 17021-3:2013; CEN/CLC ISO/IEC/TS 17021-3:2016)  
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/TS 17021-3:2013; CEN/CLC ISO/IEC/TS 17021-3:2016)  
- zamijenjena s: HRN EN ISO/IEC 17021-3:2018

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

- HRN EN 15426:2008 en  
Svjeeće – Specifikacija za ponašanje čađe (EN 15426:2007)  
Candles – Specification for sooting behaviour (EN 15426:2007)  
- zamijenjena s: HRN EN 15426:2018

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

- HRN EN 993-1:2008 en  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 1. dio: Određivanje stvarne volumne gustoće, prividne poroznosti i stvarne poroznosti (EN 993-1:1995)  
Methods of test for dense shaped refractory products – Part 1: Determination of bulk density, apparent porosity and true porosity (EN 993-1:1995)  
- zamijenjena s: HRN EN 993-1:2018
- HRN EN 993-5:2008 en  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 5. dio: Određivanje otpornosti na hladno lomljenje (EN 993-5:1998)  
Methods of test for dense shaped refractory products – Part 5: Determination of cold crushing strength (EN 993-5:1998)  
- zamijenjena s: HRN EN 993-5:2018
- HRN EN 993-6:2008 en  
Metode ispitivanja neprozirnih vatrostalnih proizvoda – 6. dio: Određivanje nosivosti pri sobnoj temperaturi (EN 993-6:1995)  
Methods of test for dense shaped refractory products – Part 6: Determination of modulus of rupture at ambient temperature (EN 993-6:1995)  
- zamijenjena s: HRN EN 993-6:2018

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

- HRN EN ISO 7405:2009 en  
Stomatologija – Ocjenjivanje biokompatibilnosti medicinskih proizvoda koji se primjenjuju u stomatologiji (ISO 7405:2008; EN ISO 7405:2008)  
Dentistry – Evaluation of biocompatibility of medical devices used in dentistry (ISO 7405:2008; EN ISO 7405:2008)  
- zamijenjena s: HRN EN ISO 7405:2018
- HRN EN ISO 7405:2009/A1:2013 en  
Stomatologija – Ocjenjivanje biokompatibilnosti medicinskih proizvoda koji se primjenjuju u stomatologiji – Amandman 1: Pozitivni kontrolni materijal (ISO 7405:2008/Amd 1:2013; EN ISO 7405:2008/A1:2013)  
Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1: Positive control material (ISO 7405:2008/Amd 1:2013; EN ISO 7405:2008/A1:2013)  
- zamijenjena s: HRN EN ISO 7405:2018

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

- HRN EN 50090-5-3:2008 en  
Home and Building Electronic Systems (HBES) – Part 5-3: Media and media dependent layers – Radio frequency (EN 50090-5-3:2006)  
- zamijenjena s: HRN EN 50090-5-3:2016
- HRN EN 60424-3:2008 en  
Ferrite cores – Guide on the limits of surface irregularities – Part 3: ETD-cores and E-cores (IEC 60424-3:1999; EN 60424-3:1999)  
- zamijenjena s: HRN EN 60424-3:2016
- HRN EN 60862-1:2008 en  
Surface acoustic wave (SAW) filters of assessed quality – Part 1: Generic specification (IEC 60862-1:2003; EN 60862-1:2003)  
- zamijenjena s: HRN EN 60862-1:2015
- HRN EN 61340-2-1:2008 en  
Electrostatics – Part 2-1: Measurement methods – Ability of materials and products to dissipate static electric charge (IEC 61340-2-1:2002; EN 61340-2-1:2002)  
- zamijenjena s: HRN EN 61340-2-1:2015
- HRN EN 61596:2008 en  
Magnetic oxide EP-cores and associated parts for use in inductors and transformers – Dimensions (IEC 61596:1995; EN 61596:1997)  
- zamijenjena s: HRN EN 62317-5:2016
- HRN EN 61726:2008 en  
Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method (IEC 61726:1999; EN 61726:2000)  
- zamijenjena s: HRN EN 61726:2015
- HRN EN 61837-3:2008 en  
Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 3: Metal enclosures (IEC 61837-3:2000; EN 61837-3:2000)  
- zamijenjena s: HRN EN 61837-3:2015
- HRN EN 62132-1:2008 en  
Integrated circuits – Measurement of electromagnetic immunity, 150 kHz to 1 GHz – Part 1: General conditions and definitions (IEC 62132-1:2006; EN 62132-1:2006)  
- zamijenjena s: HRN EN 62132-1:2016
- HRN EN 62132-1:2008/Ispr.1:2014 en  
Integrated circuits – Measurement of electromagnetic immunity, 150 kHz to 1 GHz – Part 1: General conditions and definitions (EN 62132-1:2006/AC:2006)  
- zamijenjena s: HRN EN 62132-1:2016
- HRN EN 62317-13:2008 en  
Ferrite cores – Dimensions – Part 13: PQ-cores for use in power supply applications (IEC 62317-13:2008; EN 62317-13:2008)  
- zamijenjena s: HRN EN 62317-13:2015
- HRN EN 62391-1:2008 en  
Fixed electric double-layer capacitors for use in electronic equipment – Part 1: Generic specification (IEC 62391-1:2006; EN 62391-1:2006)  
- zamijenjena s: HRN EN 62391-1:2016



## 1.6 Ispravci hrvatskih norma

U popisima hrvatskih norma objavljenim u ranijim brojevima službenog glasila potkrale su se pogreške. Niže navodimo ispravne oznake i naslove hrvatskih norma. Navedeni ispravci smatraju se službenom informacijom i nisu nužno uključeni u norme koje su prethodno objavljene.

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

- **umjesto**

HRN ISO 15836:2014  
Informacije i dokumentacija – **Dublinski osnovni skup metapodataka** (ISO 15836:2009+Cor 1:2009)  
Information and documentation – The Dublin Core metadata element set (ISO 15836:2009+Cor 1:2009)

- **treba biti**

HRN ISO 15836:2014  
Informacije i dokumentacija – **Skup elemenata metapodataka Dublin core** (ISO 15836:2009+Cor 1:2009)  
Information and documentation – The Dublin Core metadata element set (ISO 15836:2009+Cor 1:2009)

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

- **umjesto**

HRN EN ISO 13786:2017  
Toplinske značajke građevnih dijelova zgrade – Dinamičke toplinske značajke – Metode proračuna (ISO 13786:2017; EN ISO 13786:2017)  
Thermal performance of building components – Dynamic thermal characteristics – Calculation methods (ISO 13786:2017; EN ISO 13786:2017)

- **treba biti**

HRN EN ISO 13786:2017  
Toplinske značajke građevnih dijelova zgrade – Dinamičke toplinske značajke – Metode proračuna (ISO 13786:2017; **ispravljena verzija 2018-03**; EN ISO 13786:2017)  
Thermal performance of building components – Dynamic thermal characteristics – Calculation methods (ISO 13786:2017; **Corrected version 2018-03**; EN ISO 13786:2017)

### HZN/TO 215, *Medicinska informatika*

- **umjesto**

HRN EN ISO 11073-10419:2016  
Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10419. dio: Namjena uređaja – Inzulinska pumpa (ISO/IEEE 11073-10419:2016; EN ISO 11073-10419:2016)  
Health informatics – Personal health device communication – Part 10419: Device specialization – Insulin pump (ISO/IEEE 11073-10419:2016; EN ISO 11073-10419:2016)

- **treba biti**

HRN EN ISO 11073-10419:2016  
Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10419. dio: Namjena uređaja – Inzulinska pumpa (ISO/IEEE 11073-10419:2016; **ispravljena verzija 2018-03**; EN ISO 11073-10419:2016)  
Health informatics – Personal health device communication – Part 10419: Device specialization – Insulin pump (ISO/IEEE 11073-10419:2016; **Corrected version 2018-03**; EN ISO 11073-10419:2016)

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

- **umjesto**

HRN EN 13108-4:2016  
Bitumenske mješavine – Specifikacije materijala – 4. dio: **HRA (Hot Rolled Asphalt)** (EN 13108-4:2016)  
Bituminous mixtures – Material specifications – Part 4: Hot Rolled Asphalt (EN 13108-4:2016)

- **treba biti**

HRN EN 13108-4:2016  
Bitumenske mješavine – Specifikacije materijala – 4. dio: **Vruće valjani asfalt (HRA)** (EN 13108-4:2016)  
Bituminous mixtures – Material specifications – Part 4: Hot Rolled Asphalt (EN 13108-4:2016)

- **umjesto**

HRN EN 13108-4:2016/Ispr.1:2017  
Bitumenske mješavine – Specifikacije materijala – 4. dio: **HRA (Hot Rolled Asphalt)** (EN 13108-4:2016/AC:2017)  
Bituminous mixtures – Material specifications – Part 4: Hot Rolled Asphalt (EN 13108-4:2016/AC:2017)

- **treba biti**

HRN EN 13108-4:2016/Ispr.1:2017  
Bitumenske mješavine – Specifikacije materijala – 4. dio: **Vruće valjani asfalt (HRA)** (EN 13108-4:2016/AC:2017)  
Bituminous mixtures – Material specifications – Part 4: Hot Rolled Asphalt (EN 13108-4:2016/AC:2017)

- **umjesto**

HRN EN 13108-5:2016  
Bitumenske mješavine – Specifikacije materijala – 5. dio: **SMA (Stone Mastic Asphalt)** (EN 13108-5:2016)  
Bituminous mixtures – Material specifications – Part 5: Stone Mastic Asphalt (EN 13108-5:2016)

- **treba biti**

HRN EN 13108-5:2016  
Bitumenske mješavine – Specifikacije materijala – 5. dio: **Skeletni mornji asfalt (SMA)** (EN 13108-5:2016)  
Bituminous mixtures – Material specifications – Part 5: Stone Mastic Asphalt (EN 13108-5:2016)

- **umjesto**

HRN EN 13108-21:2016  
Bitumenske mješavine – Specifikacije materijala – 21. dio: **Tvornička kontrola proizvodnje** (EN 13108-21:2016)  
Bituminous mixtures – Material specifications – Part 21: Factory Production Control (EN 13108-21:2016)

- **treba biti**

HRN EN 13108-21:2016  
Bitumenske mješavine – Specifikacije materijala – 21. dio: **Kontrola tvorničke proizvodnje** (EN 13108-21:2016)  
Bituminous mixtures – Material specifications – Part 21: Factory Production Control (EN 13108-21:2016)

### HZN/TO 557, *Zaštitna odjeća*

- **umjesto**

HRN EN 420:2011  
Zaštitne rukavice – Opći zahtjevi i **ispitne metode** (EN 420:2003+A1:2009)  
Protective gloves – General requirements and test methods (EN 420:2003+A1:2009)

- **treba biti**

HRN EN 420:2011  
Zaštitne rukavice – Opći zahtjevi i **metode ispitivanja** (EN 420:2003+A1:2009)  
Protective gloves – General requirements and test methods (EN 420:2003+A1:2009)

- **umjesto**

HRN EN 1073-2:2003  
Odjeća za zaštitu od radioaktivne kontaminacije – 2. dio: Zahtjevi i **ispitne metode** za neprozračivu odjeću za zaštitu od kontaminacije radioaktivnim česticama (EN 1073-2:2002)  
Protective clothing against radioactive contamination – Part 2: Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination (EN 1073-2:2002)

- **treba biti**

HRN EN 1073-2:2003  
Odjeća za zaštitu od radioaktivne kontaminacije – 2. dio: Zahtjevi i **metode ispitivanja** za neprozračivu odjeću za zaštitu od kontaminacije radioaktivnim česticama (EN 1073-2:2002)  
Protective clothing against radioactive contamination – Part 2: Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination (EN 1073-2:2002)

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

- **umjesto**

HRN EN ISO 21528-2:2017

Mikrobiologija u lancu hrane – Horizontalna metoda za dokazivanje prisutnosti i određivanje broja Enterobacteriaceae – 2. dio: Postupak određivanja broja kolonija (ISO 21528-2:2017; EN ISO 21528-2:2017)  
Microbiology of the food chain – Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique (ISO 21528-2:2017; EN ISO 21528-2:2017)

- **treba biti**

HRN EN ISO 21528-2:2017

Mikrobiologija u lancu hrane – Horizontalna metoda za dokazivanje prisutnosti i određivanje broja Enterobacteriaceae – 2. dio: Postupak određivanja broja kolonija (ISO 21528-2:2017, **ispravljena verzija 2018-06-01**; EN ISO 21528-2:2017)  
Microbiology of the food chain – Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique (ISO 21528-2:2017, **Corrected version 2018-06-01**; EN ISO 21528-2:2017)

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

- **umjesto**

HRN EN ISO/IEC 17024:2013

Ocjenjivanje sukladnosti – Opći zahtjevi za tijela koja provode certifikaciju **osoblja** (ISO/IEC 17024:2012; EN ISO/IEC 17024:2012)  
Conformity assessment – General requirements for bodies operating certification of persons (ISO/IEC 17024:2012; EN ISO/IEC 17024:2012)

- **treba biti**

HRN EN ISO/IEC 17024:2013

Ocjenjivanje sukladnosti – Opći zahtjevi za tijela koja provode certifikaciju **osoba** (ISO/IEC 17024:2012; EN ISO/IEC 17024:2012)  
Conformity assessment – General requirements for bodies operating certification of persons (ISO/IEC 17024:2012; EN ISO/IEC 17024:2012)

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

- **umjesto**

HRN EN ISO 14607:2018

Neaktivni kirurški implantati – Implantati za dojke – Posebni zahtjevi (ISO 14607:2018; EN ISO 14607:2018)  
Non-active surgical implants – Mammary implants – Particular requirements (ISO 14607:2018; EN ISO 14607:2018)

- **treba biti**

HRN EN ISO 14607:2018

Neaktivni kirurški implantati – Implantati za dojke – Posebni zahtjevi (ISO 14607:2018, **ispravljena verzija 2018-08**; EN ISO 14607:2018)  
Non-active surgical implants – Mammary implants – Particular requirements (ISO 14607:2018, **Corrected version 2018-08**; EN ISO 14607:2018)

## **1.10 Prijevodi hrvatskih normativnih dokumenata**

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

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

HRN ISO 20400:2017 hr-en pr-pp

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

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

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

Europska normizacija  
CEN

CWA 17335:2018  
Terminologies in crisis and disaster management

### 01.040.71 Kemijska tehnologija (Rječnici)

Međunarodna normizacija  
ISO

ISO 4720:2018  
Essential oils – Nomenclature

### 01.040.91 Konstrukcijski materijali i gradnja (Rječnici)

Međunarodna normizacija  
ISO

ISO 13006:2018  
Ceramic tiles – Definitions, classification, characteristics and marking

### 01.080.20 Grafički simboli za upotrebu na posebnoj opremi

Europska normizacija  
CEN

EN ISO 11192:2018  
Small craft – Graphical symbols (ISO 11192:2005)

### 01.100.20 Crteži u strojarstvu

Međunarodna normizacija  
ISO

ISO 6413:2018  
Technical product documentation – Representation of splines and serrations

### 01.120 Normizacija. Opća pravila

Međunarodna normizacija  
ISO

ISO/IEC Guide 41:2018  
Packaging – Recommendations for addressing consumer needs

### 03.080.30 Usluge za potrošače

Europska normizacija  
CEN

CWA 17327:2018  
Hotel General Manager – Knowledge, skills and competence requirements

### 03.080.99 Ostale usluge

Međunarodna normizacija  
ISO

ISO/IEC 20000-1:2018  
Information technology – Service management – Part 1: Service management system requirements

ISO/IEC 20000-10:2018  
Information technology – Service management – Part 10: Concepts and vocabulary

### 03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito

Europska normizacija  
CEN

CWA 17335:2018  
Terminologies in crisis and disaster management

EN ISO 20700:2018  
Guidelines for management consultancy services (ISO 20700:2017)

EN ISO 22315:2018  
Societal security – Mass evacuation – Guidelines for planning (ISO 22315:2014)

EN ISO 22397:2018  
Societal security – Guidelines for establishing partnering arrangements (ISO 22397:2014)

### 03.100.10 Nabava. Opskrba. Logistika

Europska normizacija  
CEN/CENELEC/ETSI

EN 301549 V 2.1.2:2018  
Accessibility requirements for ICT products and services

### 03.100.50 Proizvodnja. Upravljanje proizvodnjom

Međunarodna normizacija  
IEC

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

### 03.100.70 Sustavi upravljanja

Međunarodna normizacija  
ISO

ISO/IEC 27011 Technical Corrigendum 1:2018  
Information technology – Security techniques – Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations; Technical Corrigendum 1

### 03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti

Međunarodna normizacija  
ISO

ISO 15835-3:2018  
Steels for the reinforcement of concrete – Reinforcement couplers for mechanical splices of bars – Part 3: Conformity assessment scheme



### 03.120.30 Primjena statističkih metoda

#### Međunarodna normizacija ISO

ISO 11843-7:2018  
Capability of detection – Part 7: Methodology based on stochastic properties of instrumental noise

### 03.200.01 Slobodno vrijeme i turizam općenito

#### Europska normizacija CEN

CWA 17327:2018  
Hotel General Manager – Knowledge, skills and competence requirements

### 03.200.10 Pustolovni turizam

#### Međunarodna normizacija ISO

ISO 17572-2:2018  
Intelligent transport systems (ITS) – Location referencing for geographic databases – Part 2: Pre-coded location references (pre-coded profile)

### 03.220.20 Cestovni prijevoz

#### Europska normizacija CEN

CEN/TR 17249-1:2018  
Intelligent transport systems – eSafety – Part 1: Extending eCall to other categories of vehicle

#### Međunarodna normizacija ISO

ISO 15622:2018  
Intelligent transport systems – Adaptive cruise control systems – Performance requirements and test procedures

ISO 19638:2018  
Intelligent transport systems – Road boundary departure prevention systems (RBDPS) – Performance requirements and test procedures

ISO 21717:2018  
Intelligent transport systems – Partially Automated In-Lane Driving Systems (PADS) – Performance requirements and test procedures

ISO/TR 23049:2018  
Road Vehicles – Ergonomic aspects of external visual communication from automated vehicles to other road users

### 07.100.30 Mikrobiologija hrane

#### Europska normizacija CEN

EN ISO 6888-1:1999/A2:2018  
Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) – Part 1: Technique using Baird-Parker agar medium – Amendment 2: Inclusion of an alternative confirmation procedure (ISO 6888-1:1999/Amd 2:2018)

### 07.140 Forenzične znanosti

#### Europska normizacija CEN

EN ISO 21043-1:2018  
Forensic Sciences – Part 1: Terms and definitions (ISO 21043-1:2018)

#### Međunarodna normizacija ISO

ISO 21043-2:2018  
Forensic sciences – Part 2: Recognition, recording, collecting, transport and storage of items

### 11.040.01 Medicinska oprema općenito

#### Međunarodna normizacija IEC

IEC 61340-6-1:2018  
Electrostatics – Part 6-1: Electrostatic control for healthcare – General requirements for facilities

### 11.040.10 Anestezijska, respiracijska i reanimacijska oprema

#### Međunarodna normizacija ISO

ISO 11990:2018  
Lasers and laser-related equipment – Determination of laser resistance of tracheal tube shaft and tracheal tube cuffs

### 11.040.20 Transfuzijska, infuzijska i injekcijska oprema

#### Međunarodna normizacija ISO

ISO 15747:2018  
Plastic containers for intravenous injections

### 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

#### Međunarodna normizacija ISO

ISO/TR 21900:2018  
Guidance for uncertainty analysis regarding the application of ISO/TS 10974

### 11.060.20 Stomatološka oprema

#### Europska normizacija CEN

EN ISO 10650:2018  
Dentistry – Powered polymerization activators (ISO 10650:2018)

#### Međunarodna normizacija ISO

ISO 10650:2018  
Dentistry – Powered polymerization activators

ISO 20569:2018  
Dentistry – Trephine burs

ISO 20570:2018  
Dentistry – Oral surgical scalpel handle

## 11.080.01 Sterilizacija i dezinfekcija općenito

Europska normizacija  
CEN

EN ISO 11139:2018  
Sterilization of health care products – Vocabulary of terms used in sterilization and related equipment and process standards (ISO 11139:2018)

## 11.180.15 Pomagala za gluhe i osobe oštećenog sluha

Međunarodna normizacija  
IEC

IEC/TR 63079 AMD 1:2018  
Code of practice for hearing-loop systems (HLS)

IEC/TR 63079 Edition 1.1:2018  
Code of practice for hearing-loop systems (HLS)

## 13.020.10 Upravljanje okolišem

Europska normizacija  
CEN

EN ISO 14034:2018  
Environmental management – Environmental technology verification (ETV) (ISO 14034:2016)

EN ISO 14052:2018  
Environmental management – Material flow cost accounting – Guidance for practical implementation in a supply chain (ISO 14052:2017)

## 13.020.20 Ekogospodarstvo

Međunarodna normizacija  
ISO

ISO 20611:2018  
Adventure tourism – Good practices for sustainability – Requirements and recommendations

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

Europska normizacija  
CEN

EN ISO 14067:2018  
Greenhouse gases – Carbon footprint of products – Requirements and guidelines for quantification (ISO 14067:2018)

## 13.020.99 Ostale norme koje se odnose na zaštitu okoliša

Međunarodna normizacija  
ISO

ISO 16304:2018  
Ships and marine technology – Marine environment protection – Arrangement and management of port waste reception facilities

ISO 17325-4:2018  
Ships and marine technology – Marine environment protection – Oil booms – Part 4: Auxiliary equipment

## 13.040.35 Čiste sobe i srodni nadzirani okoliš

Međunarodna normizacija  
ISO

ISO 14644-12:2018  
Cleanrooms and associated controlled environments – Part 12: Specifications for monitoring air cleanliness by nanoscale particle concentration

## 13.060.60 Ispitivanje fizikalnih svojstava vode

Međunarodna normizacija  
ISO

ISO 20899:2018  
Water quality – Plutonium and neptunium – Test method using ICP-MS

## 13.060.70 Ispitivanje bioloških svojstava vode

Europska normizacija  
CEN

CEN/TR 17244:2018  
Water quality – Technical report for the management of diatom barcodes

CEN/TR 17245:2018  
Water quality – Technical report for the routine sampling of benthic diatoms from rivers and lakes adapted for metabarcoding analyses

## 13.080.10 Kemijske značajke tla

Međunarodna normizacija  
ISO

ISO 20295:2018  
Soil quality – Determination of perchlorate in soil using ion chromatography

## 13.080.20 Fizikalna svojstva tla

Međunarodna normizacija  
ISO

ISO 23470:2018  
Soil quality – Determination of effective cation exchange capacity (CEC) and exchangeable cations using a hexammin ecobalt(III)chloride solution

## 13.080.99 Ostale norme koje se odnose na kvalitetu tla

Europska normizacija  
CEN

EN ISO 19258:2018  
Soil quality – Guidance on the determination of background values (ISO 19258:2018)

## 13.110 Sigurnost strojeva

Europska normizacija  
CENELEC

EN 60204-1:2018  
Safety of machinery – Electrical equipment of machines – Part 1: General requirements (IEC 60204-1:2016, modified)

## 13.180 Ergonomija

### Europska normizacija CEN

EN ISO 9241-306:2018  
Ergonomics of human-system interaction – Part 306:  
Field assessment methods for electronic visual displays  
(ISO 9241-306:2018)

## 13.220.01 Zaštita od požara općenito

### Međunarodna normizacija ISO

ISO 23932-1:2018  
Fire safety engineering – General principles – Part 1:  
General

## 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

### Europska normizacija CEN

EN IEC 60695-6-2:2018  
Fire hazard testing – Part 6-2: Smoke obscuration – Summary  
and relevance of test methods (IEC 60695-6-2:2018)

### Međunarodna normizacija ISO

ISO/TR 10093:2018  
Plastics – Fire tests – Standard ignition sources

## 13.280 Zaštita od zračenja

### Europska normizacija CEN

EN ISO 28057:2018  
Dosimetry with solid thermoluminescence detectors for photon  
and electron radiations in radiotherapy (ISO 28057:2014)

### Međunarodna normizacija ISO

ISO 20899:2018  
Water quality – Plutonium and neptunium – Test method using  
ICP-MS

### IEC

IEC 62945:2018  
Radiation protection instrumentation – Measuring the  
imaging performance of X-ray computed tomography (CT)  
security-screening systems

## 13.310 Zaštita od kriminala

### Europska normizacija CENELEC

EN 62676-3:2015/AC:2018  
Video surveillance systems for use in security applications  
– Part 3: Analog and digital video interfaces (IEC 62676-3:2013)

### Međunarodna normizacija IEC

IEC 62945:2018  
Radiation protection instrumentation – Measuring the  
imaging performance of X-ray computed tomography (CT)  
security-screening systems

## 13.320 Alarmni sustavi i sustavi uzbunjivanja

### Europska normizacija CENELEC

EN 50131-2-10:2018  
Alarm systems – Intrusion and hold-up systems – Part 2-10:  
Intrusion detectors – Lock state contacts (magnetic)

## 13.340.10 Zaštitna odjeća

### Međunarodna normizacija ISO

ISO 11393-1:2018  
Protective clothing for users of hand-held chainsaws – Part 1:  
Test rig for testing resistance to cutting by a chainsaw

ISO 22610:2018  
Surgical drapes, gowns and clean air suits, used as medical  
devices, for patients, clinical staff and equipment – Test method  
to determine the resistance to wet bacterial penetration

## 13.340.50 Zaštita nogu i stopala

### Međunarodna normizacija ISO

ISO 11393-3:2018  
Protective clothing for users of hand-held chainsaws – Part 3:  
Test methods for footwear

## 17.020 Mjeriteljstvo i mjerenje općenito

### Međunarodna normizacija ISO

ISO 11843-7:2018  
Capability of detection – Part 7: Methodology based on  
stochastic properties of instrumental noise

## 17.140.30 Buka koju proizvode prijevozna sredstva

### Europska normizacija CEN

EN ISO 14509-1:2018  
Small craft – Airborne sound emitted by powered  
recreational craft – Part 1: Pass-by measurement procedures  
(ISO 14509-1:2008)

EN ISO 14509-3:2018  
Small craft – Airborne sound emitted by powered recreational  
craft – Part 3: Sound assessment using calculation and  
measurement procedures (ISO 14509-3:2009)

## 17.140.50 Elektroakustika

### Međunarodna normizacija IEC

IEC/TR 63079 AMD 1:2018  
Code of practice for hearing-loop systems (HLS)

IEC/TR 63079 Edition 1.1:2018  
Code of practice for hearing-loop systems (HLS)

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Europska normizacija CENELEC

EN 62586-2:2017/AC:2018  
Power quality measurement in power supply systems  
– Part 2: Functional tests and uncertainty requirements  
(IEC 62586-2:2017/COR1:2018)



## **Međunarodna normizacija IEC**

IEC 61340-6-1:2018  
Electrostatics – Part 6-1: Electrostatic control for healthcare  
– General requirements for facilities

## **17.240 Mjerenja zračenja**

### **Međunarodna normizacija ISO**

ISO 20899:2018  
Water quality – Plutonium and neptunium – Test method using  
ICP-MS

## **19.080 Električna i elektronička ispitivanja**

### **Međunarodna normizacija IEC**

IEC 61010-031 AMD 1 Corrigendum 1:2018  
Safety requirements for electrical equipment for measurement,  
control and laboratory use – Part 031: Safety requirements  
for hand-held and hand-manipulated probe assemblies for  
electrical test and measurement; Corrigendum 1

## **19.100 Nerazorna ispitivanja**

### **Međunarodna normizacija ISO**

ISO 20769-1:2018  
Non-destructive testing – Radiographic inspection of  
corrosion and deposits in pipes by X- and gamma rays  
– Part 1: Tangential radiographic inspection

ISO 20769-2:2018  
Non-destructive testing – Radiographic inspection of corrosion  
and deposits in pipes by X- and gamma rays – Part 2: Double  
wall radiographic inspection

## **19.120 Analiza veličine čestica. Prosijavanje**

### **Međunarodna normizacija ISO**

ISO/TR 19997:2018  
Guidelines for good practices in zeta-potential measurement

## **21.060.01 Spojni elementi općenito**

### **Europska normizacija CEN**

CEN/TR 17079:2018  
Design of fastenings for use in concrete – Redundant non-  
structural systems

CEN/TR 17080:2018  
Design of fastenings for use in concrete – Anchor channels  
– Supplementary rules

CEN/TR 17081:2018  
Design of fastenings for use in concrete – Plastic design of  
fastenings with headed and post-installed fasteners

## **21.100.10 Klizni ležajevi**

### **Međunarodna normizacija ISO**

ISO/TR 21784:2018  
Plain bearings – Spray nozzle type directed lubrication for  
tilting pad bearings

ISO 22507:2018  
Plain bearings – Fluid film bearing materials for vehicular  
turbocharger

## **21.120.30 Klinovi i klinasti utori, savitljivi klinovi**

### **Međunarodna normizacija ISO**

ISO 6413:2018  
Technical product documentation – Representation of splines  
and serrations

## **21.160 Opruge**

### **Međunarodna normizacija ISO**

ISO 19690-2:2018  
Disc springs – Part 2: Technical specifications

## **23.020.30 Tlačne posude, cilindrični plinski spremnici**

### **Međunarodna normizacija ISO**

ISO 11515 AMD 1:2018  
Gas cylinders – Refillable composite reinforced tubes of water  
capacity between 450 L and 3000 L – Design, construction  
and testing; Amendment 1

## **23.020.35 Plinske boce**

### **Međunarodna normizacija ISO**

ISO 10460:2018  
Gas cylinders – Welded aluminium-alloy, carbon and stainless  
steel gas cylinders – Periodic inspection and testing

ISO/TR 13086-3:2018  
Gas cylinders – Guidance for design of composite cylinders  
– Part 3: Calculation of stress ratios

## **23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito**

### **Europska normizacija CEN**

EN ISO 13056:2018  
Plastics piping systems – Pressure systems for hot and  
cold water – Test method for leaktightness under vacuum  
(ISO 13056:2011)

## **23.040.20 Plastične cijevi**

### **Europska normizacija CEN**

EN ISO 19893:2018  
Plastics piping systems – Thermoplastics pipes and fittings for  
hot and cold water – Test method for the resistance of mounted  
assemblies to temperature cycling (ISO 19893:2011)

### **Međunarodna normizacija ISO**

ISO 7432:2018  
Glass-reinforced thermosetting plastics (GRP) pipes and  
fittings – Test methods to prove the design of locked socket-  
and-spigot joints, including double-socket joints, with  
elastomeric seals

ISO 10508 AMD 1:2018  
Plastics piping systems for hot and cold water installations  
– Guidance for classification and design; Amendment 1

ISO 11297-3:2018  
Plastics piping systems for renovation of underground  
drainage and sewerage networks under pressure – Part 3:  
Lining with close-fit pipes

ISO 11298-3:2018  
Plastics piping systems for renovation of underground water supply networks – Part 3: Lining with close-fit pipes

### 23.040.45 Plastične spojnice

#### Europska normizacija CEN

EN ISO 19893:2018  
Plastics piping systems – Thermoplastics pipes and fittings for hot and cold water – Test method for the resistance of mounted assemblies to temperature cycling (ISO 19893:2011)

#### Međunarodna normizacija ISO

ISO 7432:2018  
Glass-reinforced thermosetting plastics (GRP) pipes and fittings – Test methods to prove the design of locked socket-and-spigot joints, including double-socket joints, with elastomeric seals

ISO 10508 AMD 1:2018  
Plastics piping systems for hot and cold water installations – Guidance for classification and design; Amendment 1

ISO 11297-3:2018  
Plastics piping systems for renovation of underground drainage and sewerage networks under pressure – Part 3: Lining with close-fit pipes

ISO 11298-3:2018  
Plastics piping systems for renovation of underground water supply networks – Part 3: Lining with close-fit pipes

### 23.040.60 Prirubnice, spojnice i spojevi

#### Europska normizacija CEN

EN ISO 19892:2018  
Plastics piping systems – Thermoplastics pipes and fittings for hot and cold water – Test method for the resistance of joints to pressure cycling (ISO 19892:2011)

### 23.040.70 Crijeva i crijevni sklopovi

#### Europska normizacija CEN

EN 16436-1+A2:2018  
Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixtures in the vapour phase – Part 1: Hoses and tubings

#### Međunarodna normizacija ISO

ISO 6802:2018  
Rubber or plastics hoses and hose assemblies – Hydraulic impulse test with flexing

### 23.100.20 Cilindri

#### Međunarodna normizacija ISO

ISO 8139:2018  
Pneumatic fluid power – Cylinders, 1000 kPa (10 bar) series – Mounting dimensions of rod-end spherical eyes

ISO 8140:2018  
Pneumatic fluid power – Cylinders, 1000 kPa (10 bar) series – Mounting dimensions of rod-end clevises

### 23.120 Ventilatori. Klimatizacijski uređaji

#### Međunarodna normizacija ISO

ISO 18326:2018  
Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct – Testing and rating for performance

### 25.040.40 Mjerenje i upravljanje u industrijskim procesima

#### Međunarodna normizacija ISO

ISO 8000-62:2018  
Data quality – Part 62: Data quality management: Organizational process maturity assessment: Application of standards relating to process assessment

ISO 20534:2018  
Industrial automation systems and integration – Formal semantic models for the configuration of global production networks

#### IEC

IEC 61918:2018  
Industrial communication networks – Installation of communication networks in industrial premises

### 25.100.20 Alati za glodanje

#### Međunarodna normizacija ISO

ISO 2780:2018  
Milling cutters with tenon drive – Interchangeability dimensions for cutter arbors – Metric series

### 25.100.30 Svrkla, upuštači, razvrtači

#### Međunarodna normizacija ISO

ISO 2238:2018  
Machine bridge reamers

### 25.160.20 Dodatni i potrošni materijali za zavarivanje

#### Europska normizacija CEN

EN ISO 2401:2018  
Welding consumables – Covered electrodes – Determination of the efficiency, metal recovery and deposition coefficient (ISO 2401:2018)

EN ISO 18275:2018  
Welding consumables – Covered electrodes for manual metal arc welding of high-strength steels – Classification (ISO 18275:2018)

EN ISO 20378:2018  
Welding consumables – Rods for gas welding of non-alloy and creep-resisting steels – Classification (ISO 20378:2017)

### 25.160.30 Oprema za zavarivanje

#### Europska normizacija CENELEC

EN IEC 60974-1:2018  
Arc welding equipment – Part 1: Welding power sources (IEC 60974-1:2017)

EN IEC 62822-1:2018  
Electric welding equipment – Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) – Part 1: Product family standard (IEC 62822-1:2016, modified)

## 25.160.40 Zavareni spojevi i zavari

### Europska normizacija CEN

EN ISO 3690:2018  
Welding and allied processes – Determination of hydrogen content in arc weld metal (ISO 3690:2018)

## 25.220.10 Priprema površina

### Europska normizacija CEN

EN ISO 11124-1:2018  
Preparation of steel substrates before application of paints and related products – Specifications for metallic blast-cleaning abrasives – Part 1: General introduction and classification (ISO 11124-1:2018)

EN ISO 11124-2:2018  
Preparation of steel substrates before application of paints and related products – Specifications for metallic blast-cleaning abrasives – Part 2: Chilled-iron grit (ISO 11124-2:2018)

EN ISO 11124-4:2018  
Preparation of steel substrates before application of paints and related products – Specifications for metallic blast-cleaning abrasives – Part 4: Low-carbon cast-steel shot (ISO 11124-4:2018)

EN ISO 11125-2:2018  
Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 2: Determination of particle size distribution (ISO 11125-2:2018)

EN ISO 11125-3:2018  
Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 3: Determination of hardness (ISO 11125-3:2018)

EN ISO 11125-4:2018  
Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 4: Determination of apparent density (ISO 11125-4:2018)

EN ISO 11125-5:2018  
Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 5: Determination of percentage defective particles and of microstructure (ISO 11125-5:2018)

EN ISO 11125-6:2018  
Preparation of steel substrates before application of paints and related products – Test methods for metallic blast-cleaning abrasives – Part 6: Determination of foreign matter (ISO 11125-6:2018)

EN ISO 11126-1:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 1: General introduction and classification (ISO 11126-1:2018)

EN ISO 11126-3:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 3: Copper refinery slag (ISO 11126-3:2018)

EN ISO 11126-4:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 4: Coal furnace slag (ISO 11126-4:2018)

EN ISO 11126-6:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 6: Iron and steel slags (ISO 11126-6:2018)

EN ISO 11126-7:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 7: Fused aluminium oxide (ISO 11126-7:2018)

EN ISO 11126-8:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 8: Olivine (ISO 11126-8:2018)

### Međunarodna normizacija ISO

ISO 11124-3:2018  
Preparation of steel substrates before application of paints and related products – Specifications for metallic blast-cleaning abrasives – Part 3: High-carbon cast-steel shot and grit

ISO 11126-5:2018  
Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 5: Nickel slag

## 25.220.20 Površinska obrada

### Europska normizacija CEN

EN ISO 2085:2018  
Anodizing of aluminium and its alloys – Check for continuity of thin anodic oxidation coatings – Copper sulfate test (ISO 2085:2018)

EN ISO 6581:2018  
Anodizing of aluminium and its alloys – Determination of the comparative fastness to ultraviolet light and heat of coloured anodic oxidation coatings (ISO 6581:2018)

EN ISO 8251:2018  
Anodizing of aluminium and its alloys – Measurement of abrasion resistance of anodic oxidation coatings (ISO 8251:2018)

### Međunarodna normizacija ISO

ISO 8993:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Chart method

## 25.220.50 Emajli

### Međunarodna normizacija ISO

ISO 4531:2018  
Vitreous and porcelain enamels – Release from enamelled articles in contact with food – Methods of test and limits

## 27.060.20 Plinski plamenici

### Međunarodna normizacija ISO

ISO 23551-2:2018  
Safety and control devices for gas burners and gas-burning appliances – Particular requirements – Part 2: Pressure regulators



## 27.080 Dizalice topline

### Međunarodna normizacija ISO

- ISO 18326:2018  
Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct – Testing and rating for performance

## 27.120.20 Nuklearne elektrane. Sigurnost

### Međunarodna normizacija ISO

- ISO 16647:2018  
Nuclear facilities – Criteria for design and operation of confinement systems for nuclear worksite and for nuclear installations under decommissioning

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

- EN 60204-1:2018  
Safety of machinery – Electrical equipment of machines – Part 1: General requirements (IEC 60204-1:2016, modified)
- EN IEC 60695-6-2:2018  
Fire hazard testing – Part 6-2: Smoke obscuration – Summary and relevance of test methods (IEC 60695-6-2:2018)

## 29.030 Magnetni materijali

### Europska normizacija CENELEC

- EN 60404-2:1998/A1:2008/AC:2018  
Magnetic materials – Part 2: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of an Epstein frame (IEC 60404-2:1996/A1:2008/COR1:2018)

## 29.035.01 Izolacijski materijali općenito

### Europska normizacija CENELEC

- EN 60811-501:2012/A1:2018  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds (IEC 60811-501:2012/A1:2018)

## 29.040.10 Izolacijska ulja

### Međunarodna normizacija IEC

- IEC 62961:2018  
Insulating liquids – Test methods for the determination of interfacial tension of insulating liquids – Determination with the ring method

## 29.080.10 Izolatori

### Europska normizacija CENELEC

- EN 60507:2014/AC:2018  
Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems (IEC 60507:2013/COR1:2018)

## 29.100.10 Magnetski sastavni dijelovi

### Europska normizacija CENELEC

- EN 60205:2017/AC:2018  
Calculation of the effective parameters of magnetic piece parts (IEC 60205:2016/COR1:2018)
- EN IEC 63093-5:2018  
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 5: EP-cores and associated parts for use in inductors and transformers (IEC 63093-5:2018)
- EN IEC 63093-6:2018  
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 6: ETD-cores for use in power supplies (IEC 63093-6:2018)
- EN IEC 63093-8:2018  
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 8: E-cores (IEC 63093-8:2018)

## 29.120.30 Utikači, utičnice, sprežnici

### Međunarodna normizacija IEC

- IEC 60320-1 AMD 1:2018  
Appliance couplers for household and similar general purposes – Part 1: General requirements
- IEC 60320-1 Edition 3.1:2018  
Appliance couplers for household and similar general purposes – Part 1: General requirements

## 29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

### Međunarodna normizacija IEC

- IEC 62752 AMD 1:2018  
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)
- IEC 62752 Edition 1.1:2018  
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Europska normizacija CENELEC

- EN 62386-101:2014/A1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components (IEC 62386-101:2014/A1:2018)

### Međunarodna normizacija IEC

- IEC 62386-102 AMD 1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear
- IEC 62386-102 Edition 2.1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear
- IEC 62386-103 AMD 1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices
- IEC 62386-103 Edition 1.1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices

## 29.140.50 Rasvjetni instalacijski sustavi

Europska normizacija  
CENELEC

- EN IEC 62386-221:2018  
Digital addressable lighting interface – Part 221: Particular requirements for control gear – Demand Response (device type 20) (IEC 62386-221:2018)

## 29.140.99 Ostale norme koje se odnose na svjetiljke

Europska normizacija  
CENELEC

- EN IEC 62442-1:2018  
Energy performance of lamp controlgear – Part 1: Controlgear for fluorescent lamps – Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear (IEC 62442-1:2018)
- EN IEC 62442-2:2018  
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

Međunarodna normizacija  
IEC

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

## 29.180 Transformatori. Prigušnice

Međunarodna normizacija  
IEC

- IEC/IEEE 60076-16:2018  
Power transformers – Part 16: Transformers for wind turbine applications

## 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

Europska normizacija  
CENELEC

- EN IEC 61800-3:2018  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods (IEC 61800-3:2017)
- EN IEC 62040-2:2018  
Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2016)
- EN IEC 62477-2:2018  
Safety requirements for power electronic converter systems and equipment – Part 2: Power electronic converters from 1000 V AC or 1500 V DC up to 36 kV AC or 54 kV DC (IEC 62477-2:2018)

Međunarodna normizacija  
IEC

- IEC/TR 62672:2018  
Reliability and availability evaluation of HVDC systems

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

Europska normizacija  
CENELEC

- EN 60079-1:2014/AC:2018  
Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures „d“ (IEC 60079-1:2014/COR1:2018)

Međunarodna normizacija  
ISO/IEC

- ISO/IEC 80079-34:2018  
Explosive atmospheres – Part 34: Application of quality systems for ex product manufacture

## 31.020 Elektronički sastavni dijelovi općenito

Međunarodna normizacija  
IEC

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

## 31.080.99 Ostale poluvodičke naprave

Europska normizacija  
CENELEC

- EN IEC 62477-2:2018  
Safety requirements for power electronic converter systems and equipment – Part 2: Power electronic converters from 1000 V AC or 1500 V DC up to 36 kV AC or 54 kV DC (IEC 62477-2:2018)

## 31.120 Elektronički uređaji za prikazivanje

Međunarodna normizacija  
IEC

- IEC/TR 63145-1-1:2018  
Eyewear display – Part 1-1: Generic introduction

## 31.180 Tiskani krugovi i pločice

Međunarodna normizacija  
IEC

- IEC 61191-1:2018  
Printed board assemblies – Part 1: Generic specification – Requirements for soldered electrical and electronic assemblies using surface mount and related assembly technologies
- IEC 62899-202-5:2018  
Printed electronics – Part 202-5: Materials – Conductive ink – Mechanical bending test of a printed conductive layer on an insulating substrate
- IEC 62899-203:2018  
Printed electronics – Part 203: Materials – Semiconductor ink

## 31.260 Optoelektronika. Laserska oprema

Međunarodna normizacija  
ISO

- ISO 11990:2018  
Lasers and laser-related equipment – Determination of laser resistance of tracheal tube shaft and tracheal tube cuffs

### 33.020 Telekomunikacije općenito

#### Europska normizacija ETSI

EN 301549 V 2.1.2:2018  
Accessibility requirements for ICT products and services

### 33.040.40 Mreže za prijenos podataka

#### Međunarodna normizacija IEC

IEC/TR 61850-90-6:2018  
Communication networks and systems for power utility automation – Part 90-6: Use of IEC 61850 for Distribution Automation Systems

### 33.100.01 Elektromagnetska kompatibilnost općenito

#### Europska normizacija CENELEC

EN IEC 61800-3:2018  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods (IEC 61800-3:2017)

EN IEC 62040-2:2018  
Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2016)

### 33.160.50 Pribor

#### Međunarodna normizacija IEC

IEC 60268-4:2018  
Sound system equipment – Part 4: Microphones

### 33.170 Televizijski i radijski prijenos

#### Međunarodna normizacija IEC

IEC 62106-3:2018  
Radio data system (RDS) – VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz – Part 3: Usage and registration of Open Data Applications (ODAs)

IEC 62106-4:2018  
Radio data system (RDS) – VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz – Part 4: Registered code tables

IEC 62106-5:2018  
Radio data system (RDS) – VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz – Part 5: Marking of RDS receiver devices

IEC 62106-6:2018  
Radio data system (RDS) – VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz – Part 6: Compilation of technical specifications for Open Data Applications in the public domain

### 33.180.01 Svjetlovodni sustavi općenito

#### Međunarodna normizacija IEC

IEC 61918:2018  
Industrial communication networks – Installation of communication networks in industrial premises

### 33.180.30 Optička pojačala

#### Europska normizacija CENELEC

EN IEC 61290-4-4:2018  
Optical amplifiers – Test methods – Part 4-4: Gain transient parameters – Single channel optical amplifiers with gain control (IEC 61290-4-4:2018)

### 33.200 Daljinsko upravljanje. Daljinsko mjerenje

#### Međunarodna normizacija IEC

IEC/TR 61850-90-6:2018  
Communication networks and systems for power utility automation – Part 90-6: Use of IEC 61850 for Distribution Automation Systems

### 35.020 Informacijska tehnologija (IT) općenito

#### Europska normizacija ETSI

EN 301549 V 2.1.2:2018  
Accessibility requirements for ICT products and services

#### Međunarodna normizacija ISO

ISO/IEC 20000-1:2018  
Information technology – Service management – Part 1: Service management system requirements

ISO/IEC 20000-10:2018  
Information technology – Service management – Part 10: Concepts and vocabulary

ISO/IEC 30141:2018  
Internet of Things (IoT) – Reference Architecture

### 35.030 Informatička sigurnost

#### Europska normizacija CENELEC

EN 62351-3:2014/A1:2018  
Power systems management and associated information exchange – Data and communications security – Part 3: Communication network and system security – Profiles including TCP/IP (IEC 62351-3:2014/A1:2018)

#### Međunarodna normizacija ISO

ISO/IEC 19823-19:2018  
Information technology – Conformance test methods for security service crypto suites – Part 19: Crypto suite RAMON

ISO/IEC 27011 Technical Corrigendum 1:2018  
Information technology – Security techniques – Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations; Technical Corrigendum

#### IEC

IEC/TR 62351-90-2:2018  
Power systems management and associated information exchange – Data and communications security – Part 90-2: Deep packet inspection of encrypted communications



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

### Međunarodna normizacija ISO

ISO/IEC 14496-3 AMD 7:2018  
Information technology – Coding of audio-visual objects  
– Part 3: Audio – Amendment 7: SBR enhancements

ISO/IEC 14496-26 AMD 5:2018  
Information technology – Coding of audio-visual objects  
– Part 26: Audio conformance – Amendment 5: Conformance  
for new levels of ALS simple profile, SBR enhancements

## 35.080 Softver (programaska podrška)

### Međunarodna normizacija ISO

ISO/IEC 29110-4-3:2018  
Systems and software engineering – Lifecycle profiles for very  
small entities (VSEs) – Part 4-3: Service delivery – Profile  
specification

## 35.100.60 Sloj prikazivanja

### Međunarodna normizacija ISO

ISO/IEC 8824-1 Technical Corrigendum 2:2018  
Information technology – Abstract Syntax Notation  
One (ASN.1): Specification of basic notation; Technical  
Corrigendum 2

ISO/IEC 8824-2 Technical Corrigendum 1:2018  
Information technology – Abstract Syntax Notation One  
(ASN.1): Information object specification; Technical  
Corrigendum 1

ISO/IEC 8824-3 Technical Corrigendum 2:2018  
Information technology – Abstract Syntax Notation One  
(ASN.1): Constraint specification; Technical Corrigendum 2

ISO/IEC 8824-4 Technical Corrigendum 1:2018  
Information technology – Abstract Syntax Notation One  
(ASN.1): Parameterization of ASN.1 specifications; Technical  
Corrigendum 1

ISO/IEC 8825-7 Technical Corrigendum 3:2018  
Information technology – ASN.1 encoding rules – Part 7:  
Specification of Octet Encoding Rules (OER); Technical  
Corrigendum 3

## 35.110 Umrežavanje

### Međunarodna normizacija ISO

ISO/IEC/IEEE 8802-1AX Technical Corrigendum 1:2018  
Information technology – Telecommunications and information  
exchange between systems – Local and metropolitan  
area networks – Specific requirements – Part 1AX: Link  
aggregation; Technical Corrigendum 1

ISO/IEC/IEEE 8802-3 Technical Corrigendum 1:2018  
Information technology – Telecommunications and information  
exchange between systems – Local and metropolitan area  
networks – Specific requirements – Part 3: Standard for  
Ethernet – Technical Corrigendum 1: Multi-lane timestamping

### IEC

IEC 61918:2018  
Industrial communication networks – Installation of  
communication networks in industrial premises

## 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

### Europska normizacija CEN

EN ISO 9241-306:2018  
Ergonomics of human-system interaction – Part 306:  
Field assessment methods for electronic visual displays  
(ISO 9241-306:2018)

### Međunarodna normizacija IEC

IEC/TR 63145-1-1:2018  
Eyewear display – Part 1-1: Generic introduction

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija ISO

ISO/IEC 14763-3 AMD 1:2018  
Information technology – Implementation and operation of  
customer premises cabling – Part 3: Testing of optical fibre  
cabling; Amendment 1

## 35.240.50 Primjene informacijske tehnologije u industriji

### Europska normizacija CENELEC

EN 62351-3:2014/A1:2018  
Power systems management and associated information  
exchange – Data and communications security – Part 3:  
Communication network and system security – Profiles  
including TCP/IP (IEC 62351-3:2014/A1:2018)

### Međunarodna normizacija IEC

IEC/TR 62351-90-2:2018  
Power systems management and associated information  
exchange – Data and communications security – Part 90-2:  
Deep packet inspection of encrypted communications

## 35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini

### Europska normizacija CEN

CEN/TR 17249-1:2018  
Intelligent transport systems – eSafety – Part 1: Extending  
eCall to other categories of vehicle

### Međunarodna normizacija ISO

ISO 15622:2018  
Intelligent transport systems – Adaptive cruise control systems  
– Performance requirements and test procedures

ISO 17572-2:2018  
Intelligent transport systems (ITS) – Location referencing for  
geographic databases – Part 2: Pre-coded location references  
(pre-coded profile)

ISO 19638:2018  
Intelligent transport systems – Road boundary departure  
prevention systems (RBDPS) – Performance requirements  
and test procedures

ISO 21717:2018  
Intelligent transport systems – Partially Automated In-Lane  
Driving Systems (PADS) – Performance requirements and  
test procedures

## 35.240.70 Primjene informacijske tehnologije u znanosti

### Europska normizacija CEN

EN ISO 19136-2:2018  
Geographic information – Geography Markup Language (GML) – Part 2: Extended schemas and encoding rules (ISO 19136-2:2015)

### Međunarodna normizacija ISO

ISO 19130-1:2018  
Geographic information – Imagery sensor models for geopositioning – Part 1: Fundamentals

## 35.240.99 Primjene IT-a u ostalim područjima

### Europska normizacija CENELEC

EN 62386-101:2014/A1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components (IEC 62386-101:2014/A1:2018)

EN IEC 62386-221:2018  
Digital addressable lighting interface – Part 221: Particular requirements for control gear – Demand Response (device type 20) (IEC 62386-221:2018)

### Međunarodna normizacija IEC

IEC 62386-102 AMD 1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear

IEC 62386-102 Edition 2.1:2018  
Digital addressable lighting interface – Part 102: General requirements – Control gear

IEC 62386-103 AMD 1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices

IEC 62386-103 Edition 1.1:2018  
Digital addressable lighting interface – Part 103: General requirements – Control devices

## 37.020 Optička oprema

### Međunarodna normizacija ISO

ISO 9211-7:2018  
Optics and photonics – Optical coatings – Part 7: Minimum requirements for neutral beam splitter coatings

## 37.040.10 Fotografaska oprema. Projektori

### Međunarodna normizacija ISO

ISO 19093:2018  
Photography – Digital cameras – Measuring low-light performance

## 37.040.25 Radiografski filmovi

### Europska normizacija CEN

EN ISO 11699-2:2018  
Non-destructive testing – Industrial radiographic films – Part 2: Control of film processing by means of reference values (ISO 11699-2:2018)

## 37.100.10 Oprema za umnožavanje

### Međunarodna normizacija ISO

ISO/IEC 28360-1:2018  
Information technology – Office equipment – Determination of chemical emission rates from electronic equipment – Part 1: Using-consumables

ISO/IEC 28360-2:2018  
Information technology – Office equipment – Determination of chemical emission rates from electronic equipment – Part 2: Not using-consumables

## 37.100.99 Ostale norme koje se odnose na grafičku tehnologiju

### Međunarodna normizacija ISO

ISO 18935:2018  
Imaging materials – Colour images – Determination of water resistance of printed colour images

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija ISO

ISO 16992:2018  
Passenger car tyres – Spare unit substitutive equipment (SUSE)

## 43.040.15 Informatika vozila. Računalni sustavi u vozilu

### Europska normizacija CEN

EN ISO 18541-5:2018  
Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 5: Heavy duty specific provision (ISO 18541-5:2018)

## 43.080.01 Gospodarska vozila općenito

### Međunarodna normizacija ISO

ISO 21308-1:2018  
Road vehicles – Product data exchange between chassis and bodywork manufacturers (BEP) – Part 1: General principles

## 43.120 Električna cestovna vozila

### Međunarodna normizacija IEC

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

IEC 62752 AMD 1:2018  
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

IEC 62752 Edition 1.1:2018  
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

## 43.180 Oprema za dijagnostiku, održavanje i ispitivanje

### Europska normizacija CEN

- EN ISO 18541-5:2018  
Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 5: Heavy duty specific provision (ISO 18541-5:2018)

## 47.020.99 Ostale norme koje se odnose na brodogradnju i pomorske konstrukcije

### Međunarodna normizacija ISO

- ISO 17325-4:2018  
Ships and marine technology – Marine environment protection – Oil booms – Part 4: Auxiliary equipment

## 47.080 Mala plovila

### Europska normizacija CEN

- EN ISO 6185-1:2018  
Inflatable boats – Part 1: Boats with a maximum motor power rating of 4,5 kW (ISO 6185-1:2001)
- EN ISO 6185-2:2018  
Inflatable boats – Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive (ISO 6185-2:2001)
- EN ISO 6185-3:2018  
Inflatable boats – Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater (ISO 6185-3:2014)
- EN ISO 6185-4:2018  
Inflatable boats – Part 4: Boats with a hull length of between 8 m and 24 m with a motor power rating of 15 kW and greater (ISO 6185-4:2011, Corrected version 2014-08-01)
- EN ISO 7840:2018  
Small craft – Fire-resistant fuel hoses (ISO 7840:2013)
- EN ISO 8469:2018  
Small craft – Non-fire-resistant fuel hoses (ISO 8469:2013)
- EN ISO 8666:2018  
Small craft – Principal data (ISO 8666:2016)
- EN ISO 8849:2018  
Small craft – Electrically operated direct-current bilge pumps (ISO 8849:2003)
- EN ISO 9093-1:2018  
Small craft – Seacocks and through-hull fittings – Part 1: Metallic (ISO 9093-1:1994)
- EN ISO 9093-2:2018  
Small craft – Seacocks and through-hull fittings – Part 2: Non-metallic (ISO 9093-2:2002)
- EN ISO 11192:2018  
Small craft – Graphical symbols (ISO 11192:2005)
- EN ISO 11547:2018  
Small craft – Start-in-gear protection (ISO 11547:1994)
- EN ISO 11812:2018  
Small craft – Watertight cockpits and quick-draining cockpits (ISO 11812:2001)
- EN ISO 12215-2:2018  
Small craft – Hull construction and scantlings – Part 2: Materials: Core materials for sandwich construction, embedded materials (ISO 12215-2:2002)
- EN ISO 12215-3:2018  
Small craft – Hull construction and scantlings – Part 3: Materials: Steel, aluminium alloys, wood, other materials (ISO 12215-3:2002)

- EN ISO 12215-4:2018  
Small craft – Hull construction and scantlings – Part 4: Workshop and manufacturing (ISO 12215-4:2002)

- EN ISO 12215-5:2018  
Small craft – Hull construction and scantlings – Part 5: Design pressures for monohulls, design stresses, scantlings determination (ISO 12215-5:2008, including Amd 1:2014)

- EN ISO 12215-6:2018  
Small craft – Hull construction and scantlings – Part 6: Structural arrangements and details (ISO 12215-6:2008)

- EN ISO 12215-8:2018  
Small craft – Hull construction and scantlings – Part 8: Rudders (ISO 12215-8:2009, including Cor 1:2010)

- EN ISO 12215-9:2018  
Small craft – Hull construction and scantlings – Part 9: Sailing craft appendages (ISO 12215-9:2012)

- EN ISO 12216:2018  
Small craft – Windows, portlights, hatches, deadlights and doors – Strength and watertightness requirements (ISO 12216:2002)

- EN ISO 13297:2018  
Small craft – Electrical systems – Alternating current installations (ISO 13297:2014)

- EN ISO 13590:2018  
Small craft – Personal watercraft – Construction and system installation requirements (ISO 13590:2003)

- EN ISO 14509-1:2018  
Small craft – Airborne sound emitted by powered recreational craft – Part 1: Pass-by measurement procedures (ISO 14509-1:2008)

- EN ISO 14509-3:2018  
Small craft – Airborne sound emitted by powered recreational craft – Part 3: Sound assessment using calculation and measurement procedures (ISO 14509-3:2009)

- EN ISO 15083:2018  
Small craft – Bilge-pumping systems (ISO 15083:2003)

- EN ISO 15084:2018  
Small craft – Anchoring, mooring and towing – Strong points (ISO 15084:2003)

- EN ISO 16180:2018  
Small craft – Navigation lights – Installation, placement and visibility (ISO 16180:2013)

- EN ISO 21487:2018  
Small craft – Permanently installed petrol and diesel fuel tanks (ISO 21487:2012, including Amd 1:2014 and Amd 2:2015)

- EN ISO 25197:2018  
Small craft – Electrical/electronic control systems for steering, shift and throttle (ISO 25197:2012, including Amd 1:2014)

## 49.030.30 Matice

### Europska normizacija CEN

- EN 2878:2018  
Aerospace series – Nuts, anchor, self-locking, air resistant, sealing, floating, two lug, with counterbore, in alloy steel, cadmium plated, MoS<sub>2</sub> lubricated – Classification: 900 MPa (at ambient temperature)/235 °C

- EN 2880:2018  
Aerospace series – Nuts, anchor, self-locking, fuel resistant, sealing, floating, two lug, with counterbore, in alloy steel, cadmium plated, MoS<sub>2</sub> lubricated – Classification: 900 MPa (at ambient temperature)/120 °C

## **49.060 Zrakoplovna električna oprema i sustavi**

### **Međunarodna normizacija ISO**

ISO 20894:2018  
Aircraft – LED based taxiing lightsystem – General requirements

### **IEC**

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

## **49.090 Oprema i instrumenti u zrakoplovu**

### **Međunarodna normizacija IEC**

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

## **53.020.20 Dizalice**

### **Međunarodna normizacija ISO**

ISO 8686-3:2018  
Cranes – Design principles for loads and load combinations – Part 3: Tower cranes

## **53.020.30 Pribor za opremu za dizanje**

### **Međunarodna normizacija ISO**

ISO 1835:2018  
Round steel short link chains for lifting purposes – Medium tolerance sling chains – Grade 4, stainless steel

## **53.060 Industrijski prijevozni sustavi**

### **Međunarodna normizacija ISO**

EN ISO 24134:2018  
Industrial trucks – Additional requirements for automated functions on trucks (ISO 24134:2006)

### **Međunarodna normizacija ISO**

ISO 22915-2:2018  
Industrial trucks – Verification of stability – Part 2: Counterbalanced trucks with mast

ISO 22915-8:2018  
Industrial trucks – Verification of stability – Part 8: Additional stability test for trucks operating in the special condition of stacking with mast tilted forward and load elevated

## **53.100 Strojevi za zemljane radove**

### **Međunarodna normizacija ISO**

ISO 19014-3:2018  
Earth-moving machinery – Functional safety – Part 3: Environmental performance and test requirements of electronic and electrical components used in safety-related parts of the control system

## **55.020 Ambalaža, pakiranje i distribucija robe općenito**

### **Europska normizacija CEN**

EN ISO 17480:2018  
Packaging – Accessible design – Ease of opening (ISO 17480:2015)

### **Međunarodna normizacija ISO**

ISO/IEC Guide 41:2018  
Packaging – Recommendations for addressing consumer needs

## **55.180.10 Kontejneri opće namjene**

### **Međunarodna normizacija ISO**

ISO/TR 15069:2018  
Series 1 freight containers – Handling and securing – Rationale for ISO 3874:2017, Annexes A to E

## **59.060.01 Tekstilna vlakna općenito**

### **Međunarodna normizacija ISO**

ISO 1833-27:2018  
Textiles – Quantitative chemical analysis – Part 27: Mixtures of cellulose fibres with certain other fibres (method using aluminium sulfate)

ISO 20418-2:2018  
Textiles – Qualitative and quantitative proteomic analysis of some animal hair fibres – Part 2: Peptide detection using MALDI-TOF MS

## **59.060.20 Umjetna vlakna**

### **Međunarodna normizacija ISO**

ISO 20920:2018  
Textiles – Man-made fibres – Determination of dye uptake of cationic dyeable modified polyester fibres

## **59.080.01 Tekstili općenito**

### **Međunarodna normizacija ISO**

ISO 15487:2018  
Textiles – Method for assessing appearance of apparel and other textile end products after domestic washing and drying

## **59.080.50 Užad**

### **Međunarodna normizacija ISO**

ISO 10325:2018  
Fibre ropes – High modulus polyethylene – 8-strand braided ropes, 12-strand braided ropes and covered ropes

## **61.080 Šivaći strojevi i ostala oprema za odjevnu industriju**

### **Europska normizacija CENELEC**

EN 60335-2-28:2003/A11:2018  
Household and similar electrical appliances – Safety – Part 2-28: Particular requirements for sewing machines



## 65.060.50 Oprema za žetvu

Europska normizacija  
CEN

EN 12733:2018  
Agricultural and forestry machinery – Pedestrian controlled motor mowers – Safety

## 65.160 Duhan, duhanski proizvodi i odgovarajuća oprema

Europska normizacija  
CEN

CEN/TR 17236:2018  
Electronic cigarettes and e-liquids – Constituents to be measured in the aerosol of vaping products

Međunarodna normizacija  
ISO

ISO 20768:2018  
Vapour products – Routine analytical vaping machine – Definitions and standard conditions

ISO 21766:2018  
Tobacco and tobacco products – Determination of tobacco-specific nitrosamines in tobacco products – Method using LC-MS/MS

## 67.100.10 Mlijeko i obrađeni mliječni proizvodi

Međunarodna normizacija  
ISO

ISO 21422:2018  
Milk, milk products, infant formula and adult nutritionals – Determination of chloride – Potentiometric titration method

## 67.200.10 Životinjske i biljne masti i ulja

Europska normizacija  
CEN

EN ISO 18363-2:2018  
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)

Međunarodna normizacija  
ISO

ISO 28198:2018  
Vegetable fats and oils – Determination of toluene insoluble matter

## 67.250 Materijali i predmeti u dodiru s hranom

Međunarodna normizacija  
ISO

ISO 4531:2018  
Vitreous and porcelain enamels – Release from enamelled articles in contact with food – Methods of test and limits

## 71.040.20 Laboratorijsko posuđe i odgovarajuća aparatura

Međunarodna normizacija  
IEC

IEC 61010-2-061:2018  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization

## 71.040.50 Fizikalnokemijske metode analize

Međunarodna normizacija  
IEC

IEC 61010-2-061:2018  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization

## 71.100.60 Eterična ulja

Međunarodna normizacija  
ISO

ISO 4720:2018  
Essential oils – Nomenclature

## 75.060 Prirodni plin

Europska normizacija  
CEN

EN ISO 20765-1:2018  
Natural gas – Calculation of thermodynamic properties – Part 1: Gas phase properties for transmission and distribution applications (ISO 20765-1:2005)

EN ISO 20765-2:2018  
Natural gas – Calculation of thermodynamic properties – Part 2: Single-phase properties (gas, liquid, and dense fluid) for extended ranges of application (ISO 20765-2:2015)

EN ISO 23874:2018  
Natural gas – Gas chromatographic requirements for hydrocarbon dewpoint calculation (ISO 23874:2006)

## 75.160.20 Tekuća goriva

Europska normizacija  
CEN

CEN/TR 17225:2018  
Fuels and biofuels – Assessment on oxidation stability determination methods for distillate fuels and blends thereof with fatty acid methyl esters (FAME)

## 75.160.40 Biogoriva

Europska normizacija  
CEN

CEN/TR 17225:2018  
Fuels and biofuels – Assessment on oxidation stability determination methods for distillate fuels and blends thereof with fatty acid methyl esters (FAME)

## 77.040.10 Mehaničko ispitivanje metala

Međunarodna normizacija  
ISO

ISO 204:2018  
Metallic materials – Uniaxial creep testing in tension – Method of test

## 77.040.30 Kemijska analiza metala

### Europska normizacija CEN

CEN/TR 10261:2018  
Iron and steel – European standards for the determination of chemical composition

## 77.060 Korozija metala

### Europska normizacija CEN

EN ISO 7539-6:2018  
Corrosion of metals and alloys – Stress corrosion testing – Part 6: Preparation and use of precracked specimens for tests under constant load or constant displacement (ISO 7539-6:2018)

### Međunarodna normizacija ISO

ISO 8993:2018  
Anodizing of aluminium and its alloys – Rating system for the evaluation of pitting corrosion – Chart method

ISO 15156-1 Technical Circular 1:2017  
Petroleum and natural gas industries – Materials for use in H<sub>2</sub>S-containing environments in oil and gas production – Part 1: General principles for selection of cracking-resistant materials; Technical Circular 1

ISO 15156-2 Technical Circular 1:2017  
Petroleum and natural gas industries – Materials for use in H<sub>2</sub>S-containing environments in oil and gas production – Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons; Technical Circular 1

ISO 15156-2 Technical Circular 2:2018  
Petroleum and natural gas industries – Materials for use in H<sub>2</sub>S-containing environments in oil and gas production – Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons; Technical Circular 2

ISO 15156-3 Technical Circular 1:2016  
Petroleum and natural gas industries – Materials for use in H<sub>2</sub>S-containing environments in oil and gas production – Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys; Technical Circular 1

ISO 15156-3 Technical Circular 2:2018  
Petroleum and natural gas industries – Materials for use in H<sub>2</sub>S-containing environments in oil and gas production – Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys; Technical Circular 2

ISO 20728:2018  
Corrosion of metal and alloys – Determination of resistance of magnesium alloys to stress corrosion cracking

## 77.140.15 Čelici za armiranje betona

### Međunarodna normizacija ISO

ISO 15835-3:2018  
Steels for the reinforcement of concrete – Reinforcement couplers for mechanical splices of bars – Part 3: Conformity assessment scheme

## 77.140.50 Proizvodi i poluproizvodi od plosnatog čelika

### Europska normizacija CEN

EN 10164:2018  
Steel products with improved deformation properties perpendicular to the surface of the product – Technical delivery conditions

## 77.140.70 Čelični profili

### Europska normizacija CEN

EN 10164:2018  
Steel products with improved deformation properties perpendicular to the surface of the product – Technical delivery conditions

## 79.060.01 Ploče na osnovi drva općenito

### Međunarodna normizacija ISO

ISO 12460-2:2018  
Wood-based panels – Determination of formaldehyde release – Part 2: Small-scale chamber method

## 79.060.10 Uslojeno drvo

### Međunarodna normizacija ISO

ISO 2426-4:2018  
Plywood – Classification by surface appearance – Part 4: Palm-plywood

## 79.120.10 Strojevi za obradu drva

### Europska normizacija CEN

EN 16770:2018  
Safety of woodworking machines – Chip and dust extraction systems for indoor installation – Safety requirements

## 81.060.30 Tehnička keramika

### Međunarodna normizacija ISO

ISO 17168-1:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment – Part 1: Removal of nitric oxide

ISO 17168-2:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment – Part 2: Removal of acetaldehyde

ISO 17168-3:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment – Part 3: Removal of toluene

ISO 17168-4:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment – Part 4: Removal of formaldehyde

ISO 17168-5:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment – Part 5: Removal of methyl mercaptan

ISO 19629:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Thermophysical properties of ceramic composites – Determination of unidimensional thermal diffusivity by flash method

ISO 21066:2018  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Qualitative and semiquantitative assessment of the photocatalytic activities of surfaces by the reduction of resazurin in a deposited ink film

## 83.040.10 Lateks i sirova guma

### Međunarodna normizacija ISO

ISO 127:2018  
Rubber, natural latex concentrate – Determination of KOH number

## 83.060 Guma

### Međunarodna normizacija ISO

ISO 4666-4:2018  
Rubber, vulcanized – Determination of temperature rise and resistance to fatigue in flexometer testing – Part 4: Constant-stress flexometer

## 83.080.01 Plastika općenito

### Europska normizacija CEN

EN ISO 14852:2018  
Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium – Method by analysis of evolved carbon dioxide (ISO 14852:2018)

### Međunarodna normizacija ISO

ISO/TR 10093:2018  
Plastics – Fire tests – Standard ignition sources

## 83.080.20 Plastomerni materijali

### Europska normizacija CEN

EN ISO 19892:2018  
Plastics piping systems – Thermoplastics pipes and fittings for hot and cold water – Test method for the resistance of joints to pressure cycling (ISO 19892:2011)

EN ISO 21970-1:2018  
Plastics – Polyketone (PK) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21970-1:2018)

### Međunarodna normizacija ISO

ISO 21970-2:2018  
Plastics – Polyketone (PK) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties

## 83.100 Pjenasti materijali

### Međunarodna normizacija ISO

ISO 1922:2018  
Rigid cellular plastics – Determination of shear properties

## 83.140.01 Gumeni i plastični proizvodi općenito

### Međunarodna normizacija ISO

ISO 20457:2018  
Plastics moulded parts – Tolerances and acceptance conditions

## 83.160.01 Gume za vozila općenito

### Međunarodna normizacija ISO

ISO 18885-2:2018  
TPMS snap-in valves – Part 2: Valve environment

## 83.160.10 Gume za cestovna vozila

### Međunarodna normizacija ISO

ISO 16992:2018  
Passenger car tyres – Spare unit substitutive equipment (SUSE)

## 87.040 Boje i lakovi

### Europska normizacija CEN

EN ISO 2812-5:2018  
Paints and varnishes – Determination of resistance to liquids – Part 5: Temperature-gradient oven method (ISO 2812-5:2018)

### Međunarodna normizacija ISO

ISO 16053:2018  
Paints and varnishes – Coating materials and coating systems for exterior wood – Natural weathering test

## 87.060.10 Pigmenti i punila

### Europska normizacija CEN

EN ISO 18314-1:2018  
Analytical colorimetry – Part 1: Practical colour measurement (ISO 18314-1:2015)

EN ISO 18314-2:2018  
Analytical colorimetry – Part 2: Saunderson correction, solutions of the Kubelka-Munk equation, tinting strength, hiding power (ISO 18314-2:2015)

EN ISO 18314-3:2018  
Analytical colorimetry – Part 3: Special indices (ISO 18314-3:2015)

## 91.010.30 Tehnički aspekti

### Europska normizacija CEN

EN 1992-4:2018  
Eurocode 2 – Design of concrete structures – Part 4: Design of fastenings for use in concrete

## 91.040.01 Građevine općenito

### Međunarodna normizacija ISO

ISO 11855-6:2018  
Building environment design – Design, dimensioning, installation and control of embedded radiant heating and cooling systems – Part 6: Control

## 91.040.10 Javne građevine

### Europska normizacija CEN

EN 13200-3:2018  
Spectator facilities – Part 3: Separating elements – Requirements

## 91.080.20 Drvene konstrukcije

### Međunarodna normizacija ISO

ISO 19323:2018  
Timber structures – Joist hangers – Test methods

ISO 19624:2018  
Bamboo structures – Grading of bamboo culms – Basic principles and procedures

## 91.080.40 Betonske konstrukcije

### Europska normizacija CEN

EN 1992-4:2018  
Eurocode 2 – Design of concrete structures – Part 4: Design of fastenings for use in concrete

CEN/TR 17079:2018  
Design of fastenings for use in concrete – Redundant non-structural systems

CEN/TR 17080:2018  
Design of fastenings for use in concrete – Anchor channels – Supplementary rules

CEN/TR 17081:2018  
Design of fastenings for use in concrete – Plastic design of fastenings with headed and post-installed fasteners

## 91.100.23 Keramičke pločice

### Međunarodna normizacija ISO

ISO 10545-2:2018  
Ceramic tiles – Part 2: Determination of dimensions and surface quality

ISO 13006:2018  
Ceramic tiles – Definitions, classification, characteristics and marking

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

CEN/TR 17172:2018  
Validation testing program on chloride penetration and carbonation standardized test methods

## 91.140.40 Sustavi opskrbe plinom

### Europska normizacija CEN

EN 14236:2018  
Ultrasonic domestic gas meters

## 91.140.60 Sustavi opskrbe vodom

### Europska normizacija CEN

EN ISO 13056:2018  
Plastics piping systems – Pressure systems for hot and cold water – Test method for leaktightness under vacuum (ISO 13056:2011)

### Međunarodna normizacija ISO

ISO 10508 AMD 1:2018  
Plastics piping systems for hot and cold water installations – Guidance for classification and design; Amendment 1

## 91.140.70 Sanitarne instalacije

### Europska normizacija CEN

EN 14055:2018  
WC and urinal flushing cisterns

## 91.140.80 Odvodni sustavi

### Međunarodna normizacija ISO

ISO 11297-3:2018  
Plastics piping systems for renovation of underground drainage and sewerage networks under pressure – Part 3: Lining with close-fit pipes

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Europska normizacija CEN

EN ISO 22477-5:2018  
Geotechnical investigation and testing – Testing of geotechnical structures – Part 5: Testing of grouted anchors (ISO 22477-5:2018)

### Međunarodna normizacija ISO

ISO 22476-6:2018  
Geotechnical investigation and testing – Field testing – Part 6: Self-boring pressuremeter test

ISO 22476-8:2018  
Geotechnical investigation and testing – Field testing – Part 8: Full displacement pressuremeter test

## 93.025 Vanjski vodovodni sustavi

### Međunarodna normizacija ISO

ISO 11298-3:2018  
Plastics piping systems for renovation of underground water supply networks – Part 3: Lining with close-fit pipes

## 93.030 Vanjski kanalizacijski sustavi

### Međunarodna normizacija ISO

ISO 11297-3:2018  
Plastics piping systems for renovation of underground drainage and sewerage networks under pressure – Part 3: Lining with close-fit pipes

## 93.080.10 Gradnja cesta

### Međunarodna normizacija ISO

ISO 15645:2018  
Road construction and maintenance equipment – Road milling machinery – Terminology and commercial specifications

## 93.080.30 Cestovna oprema i instalacije

### Europska normizacija CENELEC

EN 50556:2018  
Road traffic signal systems



## **97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji**

### **Europska normizacija CENELEC**

EN 60335-2-15:2016/A11:2018  
Household and similar electrical appliances – Safety  
– Part 2-15: Particular requirements for appliances for heating liquids

EN 60705:2015/A2:2018  
Household microwave ovens – Methods for measuring performance (IEC 60705:2010/A2:2018)

## **97.040.50 Mali kuhinjski uređaji**

### **Europska normizacija CENELEC**

EN 60335-2-15:2016/A11:2018  
Household and similar electrical appliances – Safety  
– Part 2-15: Particular requirements for appliances for heating liquids

## **97.040.60 Pribor za kuhanje, pribor za jelo i tanjuri**

### **Međunarodna normizacija ISO**

ISO 4531:2018  
Vitreous and porcelain enamels – Release from enamelled articles in contact with food – Methods of test and limits

## **97.080 Uređaji za čišćenje podova**

### **Međunarodna normizacija IEC**

IEC/ASTM 62885-6:2018  
Surface cleaning appliances – Part 6: Wet hard floor cleaning appliances for household or similar use – Methods for measuring the performance

## **97.170 Oprema za njegu tijela**

### **Međunarodna normizacija ISO**

ISO 28158:2018  
Dentistry – Integrated dental floss and handles

## **97.200.10 Oprema za kazalište, scenu i studio**

### **Europska normizacija CEN**

EN 13200-3:2018  
Spectator facilities – Part 3: Separating elements – Requirements

## **97.200.50 Igračke**

### **Međunarodna normizacija ISO**

ISO 8124-3 AMD 2:2018  
Safety of toys – Part 3: Migration of certain elements; Amendment 2

## **97.220.10 Sportski objekti**

### **Europska normizacija CEN**

EN 13200-3:2018  
Spectator facilities – Part 3: Separating elements – Requirements