

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

8/2018 kolovoz, 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 ISO 302:2018 en pr  
Pulpe – Određivanje Kappa broja (ISO 302:2015)  
Pulps – Determination of Kappa number (ISO 302:2015)
- HRN ISO 699:2018 en pr  
Pulpe – Određivanje otpornosti prema lužinama (ISO 699:2015)  
Pulps – Determination of alkali resistance (ISO 699:2015)
- HRN ISO 1762:2018 en pr  
Papir, karton i pulpe – Određivanje ostatka (pepela) žarenjem na 525 °C (ISO 1762:2015)  
Paper, board and pulps – Determination of residue (ash) on ignition at 525 degrees C (ISO 1762:2015)
- HRN ISO 2144:2018 en pr  
Papir, karton i pulpe – Određivanje ostatka (pepela) žarenjem na 900 °C (ISO 2144:2015)  
Paper, board and pulps – Determination of residue (ash) on ignition at 900 degrees C (ISO 2144:2015)
- HRN ISO 2470-1:2018 en pr  
Papir, karton i pulpa – Mjerenje faktora refleksije difuznoga plavog svjetla – 1. dio: Uvjeti pri unutrašnjem dnevnom svjetlu (ISO svjetlina) (ISO 2470-1:2016)  
Paper, board and pulps – Measurement of diffuse blue reflectance factor – Part 1: Indoor daylight conditions (ISO brightness) (ISO 2470-1:2016)
- HRN ISO 2528:2018 en pr  
Listovni materijali – Određivanje postotka propusnosti vodene pare – Gravimetrijska (pomoću posudice) metoda (ISO 2528:2017)  
Sheet materials – Determination of water vapour transmission rate (WVTR) – Gravimetric (dish) method (ISO 2528:2017)
- HRN ISO 3260:2018 en pr  
Pulpe – Određivanje potrošnje klora (Stupanj delignifikacije) (ISO 3260:2015)  
Pulps – Determination of chlorine consumption (Degree of delignification) (ISO 3260:2015)
- HRN ISO 5629:2018 en pr  
Papir i karton – Određivanje krutosti – Metoda rezonancije (ISO 5629:2017)  
Paper and board – Determination of bending stiffness – Resonance method (ISO 5629:2017)
- HRN ISO 5631-1:2018 en pr  
Papir i karton – Određivanje boje difuznom refleksijom – 1. dio: Uvjeti pri unutrašnjem dnevnom svjetlu (C/2 stupnja) (ISO 5631-1:2015)  
Paper and board – Determination of colour by diffuse reflectance – Part 1: Indoor daylight conditions (C/2 degrees) (ISO 5631-1:2015)
- HRN ISO 5631-2:2018 en pr  
Papir i karton – Određivanje boje difuznom refleksijom – 2. dio: Uvjeti pri vanjskom dnevnom svjetlu (D65/10 stupnjeva) (ISO 5631-2:2015)  
Paper and board – Determination of colour by diffuse reflectance – Part 2: Outdoor daylight conditions (D65/10 degrees) (ISO 5631-2:2015)

HRN ISO 5631-3:2018 en pr  
Papir i karton – Određivanje boje difuznom refleksijom – 3. dio: Osvjetljenje kod unutarnjih uvjeta (D50/2 stupnja) (ISO 5631-3:2015)  
Paper and board – Determination of colour by diffuse reflectance – Part 3: Indoor illumination conditions (D50/2 degrees) (ISO 5631-3:2015)

HRN ISO 8791-3:2018 en pr  
Papir i karton – Određivanje hrapavosti/glatkoće (metode propuštanja zraka) – 3. dio: Sheffieldova metoda (ISO 8791-3:2017)  
Paper and board – Determination of roughness/smoothness (air leak methods) – Part 3: Sheffield method (ISO 8791-3:2017)

HRN ISO 9197:2018 en pr  
Papir, karton i pulpe – Određivanje klorida topljivih u vodi (ISO 9197:2016)  
Paper, board and pulps – Determination of water-soluble chlorides (ISO 9197:2016)

HRN ISO 9416:2018 en pr  
Papir – Određivanje rasipanja svjetlosti i koeficijenta apsorpcije (uporabom Kubelka-Munkove teorije) (ISO 9416:2017)  
Paper – Determination of light scattering and absorption coefficients (using Kubelka-Munk theory) (ISO 9416:2017)

HRN ISO 11093-4:2018 en pr  
Papir i karton – Ispitivanje papirnih cijevi – 4. dio: Mjerenje dimenzija (ISO 11093-4:2016)  
Paper and board – Testing of cores – Part 4: Measurement of dimensions (ISO 11093-4:2016)

HRN ISO 11093-5:2018 en pr  
Papir i karton – Ispitivanje papirnih cijevi – 5. dio: Određivanje karakteristika koncentrične rotacije (ISO 11093-5:2016)  
Paper and board – Testing of cores – Part 5: Determination of characteristics of concentric rotation (ISO 11093-5:2016)

HRN ISO 11093-8:2018 en pr  
Papir i karton – Ispitivanje papirnih cijevi – 8. dio: Određivanje prirodne frekvencije i modula elastičnosti pomoću eksperimentalne modalne analize (ISO 11093-8:2017)  
Paper and board – Testing of cores – Part 8: Determination of natural frequency and flexural modulus by experimental modal analysis (ISO 11093-8:2017)

HRN ISO 11475:2018 en pr  
Papir i karton – Određivanje CIE bjeline, D65/10° (na vanjskom dnevnom svjetlu) (ISO 11475:2017)  
Paper and board – Determination of CIE whiteness, D65/10 degrees (outdoor daylight) (ISO 11475:2017)

HRN ISO 11476:2018 en pr  
Papir i karton – Određivanje CIE bjeline, C/2° (u uvjetima unutrašnje osvjetljenosti) (ISO 11476:2016)  
Paper and board – Determination of CIE whiteness, C/2° (indoor illumination conditions) (ISO 11476:2016)

HRN ISO 11480:2018 en pr  
Pulpa, papir i karton – Određivanje ukupnog klora i organski vezanog klora (ISO 11480:2017)  
Pulp, paper and board – Determination of total chlorine and organically bound chlorine (ISO 11480:2017)

HRN ISO 15360-2:2018 en pr  
Reciklirane pulpe – Procjena ljepljivih čestica i plastike – 2. dio: Metoda slikovne analize (ISO 15360-2:2015)  
Recycled pulps – Estimation of Stickies and Plastics – Part 2: Image analysis method (ISO 15360-2:2015)

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

HRN EN ISO 4264:2018 en pr  
Naftni proizvodi – Izračunavanje cetanskog indeksa za srednje destilatna goriva pomoću jednadžbe s četiri veličine (ISO 4264:2018; EN ISO 4264:2018)  
Petroleum products – Calculation of cetane index of middle-distillate fuels by the four variable equation (ISO 4264:2018; EN ISO 4264:2018)

HRN EN 15940:2018 en pr  
Goriva za motorna vozila – Parafinska dizelska goriva dobivena sintezom ili hidrobradom – Zahtjevi i metode ispitivanja (EN 15940:2016+A1:2018)  
Automotive fuels – Paraffinic diesel fuel from synthesis or hydro-treatment – Requirements and test methods (EN 15940:2016+A1:2018)

HRN EN 17155:2018 en pr  
Tekući naftni proizvodi – Određivanje naznačenoga cetanskoga broja (ICN) srednje destilatnih goriva – Metoda umjeravanja primarnim referentnim gorivom upotrebom komore za izgaranje konstantnog obujma (EN 17155:2018)  
Liquid petroleum products – Determination of indicated cetane number (ICN) of middle distillate fuels – Primary reference fuels calibration method using a constant volume combustion chamber (EN 17155:2018)

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

HRN EN ISO 10042:2018 en pr  
Zavarivanje – Elektrolučno zavareni spojevi aluminija i njegovih legura – Razine kvalitete s obzirom na nepravilnosti (ISO 10042:2018; EN ISO 10042:2018)  
Welding – Arc-welded joints in aluminium and its alloys – Quality levels for imperfections (ISO 10042:2018; EN ISO 10042:2018)

HRN EN ISO 15612:2018 en pr  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Kvalifikacija prihvaćenjem normiranoga zavarivačkog postupka (ISO 15612:2018; EN ISO 15612:2018)  
Specification and qualification of welding procedures for metallic materials – Qualification by adoption of a standard welding procedure (ISO 15612:2018; EN ISO 15612:2018)

#### **HZN/TO 92, Zaštita od požara**

HRN EN ISO 1716:2018 en pr  
Ispitivanja reakcije na požar proizvoda – Određivanje bruto toplinskog potencijala (kalorična vrijednost) (ISO 1716:2018; EN ISO 1716:2018)  
Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value) (ISO 1716:2018; EN ISO 1716:2018)

#### **HZN/TO 120, Koža i obuća**

HRN EN ISO 4048:2018 en pr  
Koža – Kemijska ispitivanja – Određivanje tvari topljivih u diklormetanu i sadržaja slobodnih masnih kiselina (ISO 4048:2018; EN ISO 4048:2018)  
Leather – Chemical tests – Determination of matter soluble in dichloromethane and free fatty acid content (ISO 4048:2018; EN ISO 4048:2018)

HRN EN ISO 4098:2018 en pr  
Koža – Kemijska ispitivanja – Određivanje tvari topljivih u vodi, anorganskih i organskih vodotopljivih tvari (ISO 4098:2018; EN ISO 4098:2018)  
Leather – Chemical tests – Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter (ISO 4098:2018; EN ISO 4098:2018)

HRN EN ISO 5398-1:2018 en pr  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 1. dio: Metoda titracije (ISO 5398-1:2018; EN ISO 5398-1:2018)  
Leather – Chemical determination of chromic oxide content – Part 1: Quantification by titration (ISO 5398-1:2018; EN ISO 5398-1:2018)

HRN EN ISO 5398-3:2018 en pr  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 3. dio: Metoda atomske apsorpcijske spektrometrije (ISO 5398-3:2018; EN ISO 5398-3:2018)  
Leather – Chemical determination of chromic oxide content – Part 3: Quantification by atomic absorption spectrometry (ISO 5398-3:2018; EN ISO 5398-3:2018)

HRN EN ISO 17708:2018 en pr  
Obuća – Metode ispitivanja za cijelu cipelu – Prianjanje gornjišta na donjište (ISO 17708:2018; EN ISO 17708:2018)  
Footwear – Test methods for whole shoe – Upper sole adhesion (ISO 17708:2018; EN ISO 17708:2018)

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

HRN EN 13976-1:2018 en pr  
Sustavi za spašavanje – Transport inkubatora – 1. dio: Zahtjevi za sučelje (EN 13976-1:2018)  
Rescue systems – Transportation of incubators – Part 1: Interface conditions (EN 13976-1:2018)

HRN EN 13976-2:2018 en pr  
Sustavi za spašavanje – Transport inkubatora – 2. dio: Zahtjevi za sustav (EN 13976-2:2018)  
Rescue systems – Transportation of incubators – Part 2: System requirements (EN 13976-2:2018)

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

HRN EN 1451-1:2017/Ispr.1:2018 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Polipropilen (PP) – 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 1451-1:2017/AC:2018)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Polypropylene (PP) – Part 1: Specifications for pipes, fittings and the system (EN 1451-1:2017/AC:2018)

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

HRN EN 1090-2:2018 en pr  
Izvedba čeličnih i aluminijevih konstrukcija – 2. dio: Tehnički zahtjevi za čelične konstrukcije (EN 1090-2:2018)  
Execution of steel structures and aluminium structures – Part 2: Technical requirements for steel structures (EN 1090-2:2018)

HRN EN 1090-4:2018 en pr  
Izvođenje čeličnih i aluminijevih konstrukcija – 4. dio: Tehnički zahtjevi za tankostijene, hladno oblikovane, čelične elemente i konstrukcije za primjenu kod krovova, stropova, podova i zidova (EN 1090-4:2018)  
Execution of steel structures and aluminium structures – Part 4: Technical requirements for thin-gauge, cold-formed steel elements and structures for roof, ceiling, floor and wall applications (EN 1090-4:2018)

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

HRN ISO 16331-1:2018 en pr  
Optika i optički instrumenti – Laboratorijski postupci ispitivanja geodetskih i građevinskih instrumenata – 1. dio: Svojstva ručnih laserskih daljinomjera (ISO 16331-1:2017)  
Optics and optical instruments – Laboratory procedures for testing surveying and construction instruments – Part 1: Performance of handheld laser distance meters (ISO 16331-1:2017)

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

HRN EN 81-58:2018 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Pregledavanje i ispitivanje – 58. dio: Vrata voznog okna, ispitivanje vatrootpornosti (EN 81-58:2018)  
Safety rules for the construction and installation of lifts – Examination and tests – Part 58: Landing doors fire resistance test (EN 81-58:2018)

HRN EN 81-71:2018 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 71. dio: Dizala otporna na vandalsko ponašanje (EN 81-71:2018)  
Safety rules for the construction and installation of lifts – Particular applications to passenger lifts and goods passenger lifts – Part 71: Vandal resistant lifts (EN 81-71:2018)

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

HRN EN 71-1:2018 en pr  
Sigurnost igraćaka – 1. dio: Mehanička i fizikalna svojstva (EN 71-1:2014+A1:2018)  
Safety of toys – Part 1: Mechanical and physical properties (EN 71-1:2014+A1:2018)

HRN EN 71-3:2018 en pr  
Sigurnost igraćaka – 3. dio: Otpuštanje određenih elemenata (EN 71-3:2013+A3:2018)  
Safety of toys – Part 3: Migration of certain elements (EN 71-3:2013+A3:2018)

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

HRN EN ISO 17892-12:2018 en pr  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 12. dio: Određivanje granice tečenja i granice plastičnosti (ISO 17892-12:2018; EN ISO 17892-12:2018)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 12: Determination of liquid and plastic limits (ISO 17892-12:2018; EN ISO 17892-12:2018)

## HZN/TO 218, *Drvo*

HRN EN 16755:2017/Ispr.1:2018 en pr  
Trajnost djelovanja na ponašanje u požaru – Klase proizvoda od drva tretiranih usporivačima gorenja za primjenu u zatvorenim i otvorenim prostorima (EN 16755:2017/AC:2018)  
Durability of reaction to fire performance – Classes of fire-retardant treated wood products in interior and exterior end use applications (EN 16755:2017/AC:2018)

## HZN/TO 221, *Geosintetici*

HRN EN ISO 10318-1:2015/A1:2018 en pr  
Geosintetici – 1. dio: Nazivi i definicije  
(ISO 10318-1:2015/Amd 1:2018; EN ISO 10318-1:2015/A1:2018)  
Geosynthetics – Part 1: Terms and definitions  
(ISO 10318-1:2015/Amd 1:2018; EN ISO 10318-1:2015/A1:2018)

HRN EN ISO 10318-2:2015/A1:2018 en pr  
Geosintetici – 2. dio: Simboli i piktogrami  
(ISO 10318-2:2015/Amd 1:2018; EN ISO 10318-2:2015/A1:2018)  
Geosynthetics – Part 2: Symbols and pictograms  
(ISO 10318-2:2015/Amd 1:2018; EN ISO 10318-2:2015/A1:2018)

## HZN/TO 503, *Metalni materijali*

HRN EN ISO 4957:2018 en pr  
Alatni čelici (ISO 4957:2018; EN ISO 4957:2018)  
Tool steels (ISO 4957:2018; EN ISO 4957:2018)

HRN EN ISO 9443:2018 en pr  
Razredi kvalitete površine toplo valjanih šipki i valjanih žica  
(ISO 9443:2018; EN ISO 9443:2018)  
Surface quality classes for hot-rolled bars and wire rod  
(ISO 9443:2018; EN ISO 9443:2018)

HRN EN 10277:2018 en pr  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke  
(EN 10277:2018)  
Bright steel products – Technical delivery conditions  
(EN 10277:2018)

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

HRN EN ISO 16151:2018 en pr  
Korozija metala i legura – Ubrzana ciklička ispitivanja uz izlaganje prskanju zakiseljenom slanom otopinom, suhi i vlažni uvjeti (ISO 16151:2018; EN ISO 16151:2018)  
Corrosion of metals and alloys – Accelerated cyclic test with exposure to acidified salt spray, dry and wet conditions (ISO 16151:2018; EN ISO 16151:2018)

## HZN/TO 509, *Cestovna oprema*

HRN EN 1793-2:2018 en pr  
Barijere za zaštitu od buke s cesta – Metoda ispitivanja za određivanje akustičkih svojstava – 2. dio: Unutarnje značajke izolacije uzdužnog zvuka u uvjetima difuznog zvučnog polja (EN 1793-2:2018)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 2: Intrinsic characteristics of airborne sound insulation under diffuse sound field conditions (EN 1793-2:2018)

HRN EN 1793-6:2018 en pr  
Barijere za zaštitu od buke s cesta – Metoda ispitivanja za određivanje akustičkih svojstava – 6. dio: Unutarnje značajke – In situ vrijednosti izolacije od vanjske buke u uvjetima neposrednog zvučnog polja (EN 1793-6:2018)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 6: Intrinsic characteristics – In situ values of airborne sound insulation under direct sound field conditions (EN 1793-6:2018)

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

HRN EN 12830:2018 en pr  
Temperaturni senzori s bilježenjem temperature koji se upotrebljavaju prilikom prijevoza, skladištenja i distribucije proizvoda osjetljivih na temperaturu – Ispitivanja, izvedba, prikladnost (EN 12830:2018)  
Temperature recorders for the transport, storage and distribution of temperature sensitive goods – Tests, performance, suitability (EN 12830:2018)

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

HRN EN 14903:2018 en pr  
Površine sportskih terena – Sustavi višenamjenskih sportskih podova za upotrebu u zatvorenim prostorima – Metoda ispitivanja za određivanje rotacijskog trenja (EN 14903:2018)  
Surfaces for sports areas – Multi-sports floor systems for indoor use – Test method for determination of rotational friction (EN 14903:2018)

## HZN/TO 521, *Usluge održavanja*

HRN EN ISO 41012:2018 en pr  
Upravljanje objektima i sustavima podrške – Smjernice za stratešku nabavu i sastavljanje ugovora (ISO 41012:2017; EN ISO 41012:2018)  
Facility management – Guidance on strategic sourcing and the development of agreements (ISO 41012:2017; EN ISO 41012:2018)

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

HRN EN ISO 17427-1:2018 en pr  
Inteligentni transportni sustavi – Kooperativni ITS – 1. dio: Uloge i odgovornosti u kontekstu arhitekture kooperativnih ITS-a (ISO 17427-1:2018; EN ISO 17427-1:2018)  
Intelligent transport systems – Cooperative ITS – Part 1: Roles and responsibilities in the context of co-operative ITS architecture(s) (ISO 17427-1:2018; EN ISO 17427-1:2018)

## HZN/TO 526, *Bitumenska veziva*

HRN EN 13589:2018 en pr  
Bitumen i bitumenska veziva – Određivanje vlačnih svojstava modificiranog bitumena metodom mjerenja sile duktilometrom (EN 13589:2018)  
Bitumen and bituminous binders – Determination of the tensile properties of modified bitumen by the force ductility method (EN 13589:2018)

## HZN/TO 528, *Oprema za željeznice*

HRN EN 13231-5:2018 en pr  
Željeznički sustav – Željeznički gornji ustroj – Preuzimanje radova – 5. dio: Postupci za brušenje i izravnavanje tračnica na otvorenoj pruzi, skretnicama, križićima i dilatacijskim napravama (EN 13231-5:2018)  
Railway applications – Track – Acceptance of works – Part 5: Procedures for rail reprofiling in plain line, switches, crossings and expansion devices (EN 13231-5:2018)

HRN EN 14067-6:2018 en pr  
Željeznički sustav – Aerodinamika – 6. dio: Zahtjevi i postupci ispitivanja za udare bočnog vjetra (EN 14067-6:2018)  
Railway applications – Aerodynamics – Part 6: Requirements and test procedures for cross wind assessment (EN 14067-6:2018)

HRN EN 16727-1:2018 en pr  
Željeznički sustav – Željeznički gornji ustroj – Zvučne zapreke i odgovarajući uređaji koji djeluju na rasprostiranje zvuka zrakom – Neakustična svojstva – 1. dio: Mehanička svojstva pod statičkim opterećenjem – Proračun i metode ispitivanja (EN 16727-1:2018)  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Non-acoustic performance – Part 1: Mechanical performance under static loadings – Calculation and test methods (EN 16727-1:2018)

HRN EN 16727-2-1:2018 en pr  
Željeznički sustav – Željeznički gornji ustroj – Zvučne zapreke i odgovarajući uređaji koji djeluju na rasprostiranje zvuka zrakom – Neakustična svojstva – Dio 2-1: Mehanička svojstva pod dinamičkim opterećenjem uzrokovanim prolaskom vlakova – Otpornost na zamor (EN 16727-2-1:2018)  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Non-acoustic performance – Part 2-1: Mechanical performance under dynamic loadings due to passing trains – Resistance to fatigue (EN 16727-2-1:2018)

HRN EN 16951-2:2018 en pr  
Željeznički sustav – Željeznički gornji ustroj – Zvučne zapreke i odgovarajući uređaji koji djeluju na rasprostiranje zvuka zrakom – Postupci za procjenjivanje dugoročne učinkovitosti – 2. dio: Neakustična svojstva (EN 16951-2:2018)  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Procedures for assessing long term performance – Part 2: Non-acoustic characteristics (EN 16951-2:2018)

HRN EN 17065:2018 en pr  
Željeznički sustav – Kočenje – Postupci ispitivanja putničkih vagona (EN 17065:2018)  
Railway applications – Braking – Passenger coach test procedure (EN 17065:2018)

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

HRN EN ISO 3949:2018 en pr  
Plastična crijeva i crijevni sklopovi – Tekstilom ojačane vrste za hidraulične primjene – Specifikacija (ISO 3949:2018; EN ISO 3949:2018)  
Plastics hoses and hose assemblies – Textile-reinforced types for hydraulic applications – Specification (ISO 3949:2018; EN ISO 3949:2018)

HRN EN 12814-4:2018/Ispr.1:2018 en pr  
Ispitivanje zavarenih spojeva plastomernih poluproizvoda – 4. dio: Ispitivanje ljuštenja (EN 12814-4:2018/AC:2018)  
Testing of welded joints of thermoplastics semi-finished products – Part 4: Peel test (EN 12814-4:2018/AC:2018)

HRN EN 13765:2018 en pr  
Plastomerna višeslojna neumrežena crijeva i crijevni pribori za prijenos ugljikovodika, otapala i kemikalija – Specifikacija (EN 13765:2018)  
Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals – Specification (EN 13765:2018)

HRN EN 15860:2018 en pr  
Plastika – Plastomerni poluproizvodi za strojnu obradu – Zahtjevi i metode ispitivanja (EN 15860:2018)  
Plastics – Thermoplastic semi-finished products for machining – Requirements and test methods (EN 15860:2018)

HRN EN ISO 20557-1:2018 en pr  
Plastika – Poli(fenilen-eterski) (PPE) materijali za prešanje i ekstrudiranje – 1. dio: Sustav za označavanje i osnova za specifikacije (ISO 20557-1:2018; EN ISO 20557-1:2018)  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 20557-1:2018; EN ISO 20557-1:2018)

HRN EN ISO 20557-2:2018 en pr  
Plastika – Poli(fenil-eterski) (PPE) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 20557-2:2018; EN ISO 20557-2:2018)  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 2: Preparation of test specimen and determination of properties (ISO 20557-2:2018; EN ISO 20557-2:2018)

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

HRN EN 12697-12:2018 en pr  
Bitumenske mješavine – Metode ispitivanja – 12. dio: Određivanje osjetljivosti asfaltnih uzoraka na vodu (EN 12697-12:2018)  
Bituminous mixtures – Test methods – Part 12: Determination of the water sensitivity of bituminous specimens (EN 12697-12:2018)

HRN EN 12697-24:2018 en pr  
Bitumenske mješavine – Metode ispitivanja – 24. dio: Otpornost na zamor (EN 12697-24:2018)  
Bituminous mixtures – Test methods – Part 24: Resistance to fatigue (EN 12697-24:2018)

HRN EN 12697-26:2018 en pr  
Bitumenske mješavine – Metode ispitivanja – 26. dio: Krutost (EN 12697-26:2018)  
Bituminous mixtures – Test methods – Part 26: Stiffness (EN 12697-26:2018)

HRN EN 13285:2018 en pr  
Nevezane mješavine – Specifikacije (EN 13285:2018)  
Unbound mixtures – Specifications (EN 13285:2018)

HRN EN 13880-13:2018 en pr  
Vruće brtvne mase – 13. dio: Metoda ispitivanja za određivanje postupnog rastezanja (ispitivanje prijanjanja) (EN 13880-13:2018)  
Hot applied joint sealants – Part 13: Test method for the determination of the discontinuous extension (adherence test) (EN 13880-13:2018)

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

HRN EN 16236:2018 en pr  
Ocjenjivanje i provjera stalnosti svojstava (AVCP) agregata – Početno ispitivanje tipa i kontrola tvorničke proizvodnje (EN 16236:2018)  
Assessment and Verification of the Constancy of Performance (AVCP) of aggregates – Type testing and Factory Production Control (EN 16236:2018)

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

HRN EN 1279-1:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 1. dio: Opća načela, opisivanje sustava, pravila za zamjenu, odstupanja i vizualna kvaliteta (EN 1279-1:2018)  
Glass in building – Insulating glass units – Part 1: Generalities, system description, rules for substitution, tolerances and visual quality (EN 1279-1:2018)

HRN EN 1279-2:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 2. dio: Metoda dugotrajnog ispitivanja i zahtjevi za prodiranje vlage (EN 1279-2:2018)  
Glass in building – Insulating glass units – Part 2: Long term test method and requirements for moisture penetration (EN 1279-2:2018)

HRN EN 1279-3:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 3. dio: Metoda dugotrajnog ispitivanja i zahtjevi za propuštanje plina te dopuštena odstupanja koncentracije plina (EN 1279-3:2018)  
Glass in building – Insulating glass units – Part 3: Long term test method and requirements for gas leakage rate and for gas concentration tolerances (EN 1279-3:2018)

HRN EN 1279-4:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 4. dio: Metode ispitivanja fizikalnih svojstava sastavnica rubnih brtvi i umetaka (EN 1279-4:2018)  
Glass in building – Insulating glass units – Part 4: Methods of test for the physical attributes of edge seal components and inserts (EN 1279-4:2018)

HRN EN 1279-5:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 5. dio: Vrednovanje sukladnosti (EN 1279-5:2018)  
Glass in building – Insulating glass units – Part 5: Evaluation of conformity (EN 1279-5:2018)

HRN EN 1279-6:2018 en pr  
Staklo u graditeljstvu – Izolacijsko staklo – 6. dio: Tvornička kontrola proizvodnje i periodična ispitivanja (EN 1279-6:2018)  
Glass in building – Insulating glass units – Part 6: Factory production control and periodic tests (EN 1279-6:2018)

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

HRN EN 13704:2018 en pr  
Kemijski dezinficijensi – Kvantitativni suspenzijski test za procjenu sporidne djelotvornosti kemijskih dezinficijensa koji se upotrebljavaju u djelatnostima povezanim s hranom, u industriji, domaćinstvu i ustanovama – Metoda ispitivanja i zahtjevi (EN 13704:2018)  
Chemical disinfectants – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1) (EN 13704:2018)

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

HRN EN 17036:2018 en pr  
Očuvanje kulturne baštine – Umjetno starenje oponašanjem sunčevog zračenja površine netretiranoga ili tretiranoga poroznoga anorganskog materijala (EN 17036:2018)  
Conservation of Cultural Heritage – Artificial ageing by simulated solar radiation of the surface of untreated or treated porous inorganic materials (EN 17036:2018)

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

HRN EN 12665:2018 en pr  
Svjetlo i rasvjeta – Osnovni nazivi i kriteriji za specficiranje zahtjeva rasvjete (EN 12665:2018)  
Light and lighting – Basic terms and criteria for specifying lighting requirements (EN 12665:2018)

## HZN/TO 557, *Zaštitna odjeća*

HRN EN ISO 374-1:2016/A1:2018 en pr  
Rukavice za zaštitu od opasnih kemikalija i mikroorganizama – 1. dio: Nazivlje i zahtjevi za svojstva za kemijske rizike (ISO 374-1:2016/Amd 1:2018; EN ISO 374-1:2016/A1:2018)  
Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks (ISO 374-1:2016/Amd 1:2018; EN ISO 374-1:2016/A1:2018)

HRN EN ISO 18640-1:2018 en pr  
Zaštitna odjeća za vatrogasce – Fiziološki utjecaj – 1. dio: Mjerenje prolaza topline i vlage pomoću uređaja koji simulira torzo koji se znoji (ISO 18640-1:2018; EN ISO 18640-1:2018)  
Protective clothing for firefighters – Physiological impact – Part 1: Measurement of coupled heat and moisture transfer with the sweating torso (ISO 18640-1:2018; EN ISO 18640-1:2018)

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

HRN EN ISO 15952:2018 en pr  
Kvaliteta tla – Učinci onečišćivača na mlade zemljišne puževe (Helicidae) – Određivanje učinaka onečišćenosti tla na razvoj (ISO 15952:2018; EN ISO 15952:2018)  
Soil quality – Effects of pollutants on juvenile land snails (Helicidae) – Determination of the effects on growth by soil contamination (ISO 15952:2018; EN ISO 15952:2018)

HRN EN ISO 23611-1:2018 en pr  
Kvaliteta tla – Uzorkovanje beskraljčnjaka u tlu – 1. dio: Ručno razvrstavanje i ekstrakcija gujavica (ISO 23611-1:2018; EN ISO 23611-1:2018)  
Soil quality – Sampling of soil invertebrates – Part 1: Hand-sorting and extraction of earthworms (ISO 23611-1:2018; EN ISO 23611-1:2018)

## HZN/TO E31, *Eksplozivne atmosfere*

HRN EN 50059:2018 en pr  
Elektrostatska ručna oprema za prskanje – Sigurnosni zahtjevi – Ručna oprema za prskanje nezapaljivih tvari za premazivanje (EN 50059:2018)  
Electrostatic hand-held spraying equipment – Safety requirements – Hand-held spraying equipment for non-ignitable coating materials (EN 50059:2018)

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

HRN HD 60364-4-41:2017/A11:2018 en pr  
Niskonaponske električne instalacije – Dio 4-41: Sigurnosna zaštita – Zaštita od električnog udara (HD 60364-4-41:2017/A11:2017)  
Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock (HD 60364-4-41:2017/A11:2017)

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

HRN EN 61784-3-3:2018 en pr  
Industrijske komunikacijske mreže – Profili – Dio 3-3: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Dodatne specifikacije za CPF 3 (IEC 61784-3-3:2016; EN 61784-3-3:2017)  
Industrial communication networks – Profiles – Part 3-3: Functional safety fieldbuses – Additional specifications for CPF 3 (IEC 61784-3-3:2016; EN 61784-3-3:2017)

## HZN/TO Z1, *Informacijska tehnologija*

HRN EN 419241-1:2018 en pr  
Vjerodostojni sustavi za potporu potpisivanja na poslužitelju – 1. dio: Opći zahtjevi sigurnosti sustava (EN 419241-1:2018)  
Trustworthy Systems Supporting Server Signing – Part 1: General System Security Requirements (EN 419241-1:2018)

## HZN/TU B1, *Graditeljstvo 1*

HRS CEN/TS 17195:2018 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza anorganskih tvari u eluatima (CEN/TS 17195:2018)  
Construction products: Assessment of release of dangerous substances – Analysis of inorganic substances in eluates (CEN/TS 17195:2018)

HRS CEN/TS 17196:2018 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Digestija zlatotopkom za naknadnu analizu anorganskih tvari (CEN/TS 17196:2018)  
Construction products: Assessment of release of dangerous substances – Digestion by aqua regia for subsequent analysis of inorganic substances (CEN/TS 17196:2018)

HRS CEN/TS 17197:2018 en pr  
Građevni proizvodi – Procjena otpuštanja opasnih tvari – Analiza anorganskih tvari u produktima digestije i eluatima – 1. dio: Analiza optičkom emisijskom spektrometrijom s induktivno spregnutom plazmom (ICP-OES) (CEN/TS 17197:2018)  
Construction products – Assessment of release of dangerous substances – Analysis of inorganic substances in digests and eluates – Part 1: Analysis by Inductive Coupled Plasma – Optical Emission Spectrometry (ICP-OES) (CEN/TS 17197:2018)

HRS CEN/TS 17200:2018 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza makroelemenata, mikroelemenata i elemenata u tragovima u produktima digestije i eluatima spektrometrijom masa s induktivno spregnutom plazmom (ICP-MS) (CEN/TS 17200:2018)  
Construction products: Assessment of release of dangerous substances – Analysis of inorganic substances in digests and eluates – Analysis by Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) (CEN/TS 17200:2018)

HRS CEN/TS 17201:2018 en pr  
Građevni proizvodi – Procjena otpuštanja opasnih tvari – Sadržaj anorganskih tvari – Metode analize produkata digestije zlatotopkom (CEN/TS 17201:2018)  
Construction products – Assessment of release of dangerous substances – Analysis of content of inorganic substances (CEN/TS 17201:2018)

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

HRN EN ISO 3923-1:2018 en pr  
Metalni praškovi – Određivanje prividne gustoće – 1. dio: Metoda lijevka (ISO 3923-1:2018; EN ISO 3923-1:2018)  
Metallic powders – Determination of apparent density – Part 1: Funnel method (ISO 3923-1:2018; EN ISO 3923-1:2018)

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

HRN EN ISO 7494-1:2018 en pr  
Stomatologija – Nepomične stomatološke radne jedinice i stomatološki stolci – 1. dio: Opći zahtjevi i metode ispitivanja (ISO 7494-1:2018; EN ISO 7494-1:2018)  
Dentistry – Stationary dental units and dental patient chairs – Part 1: General requirements (ISO 7494-1:2018; EN ISO 7494-1:2018)

HRN EN ISO 10477:2018 en pr  
Stomatologija – Materijali na bazi polimera za izradu krunica i ljuskica (ISO 10477:2018; EN ISO 10477:2018)  
Dentistry – Polymer-based crown and veneering materials (ISO 10477:2018; EN ISO 10477:2018)

HRN EN ISO 11070:2015/A1:2018 en pr  
Sterilni jednokratni instrumenti za uvođenje, dilatatori i vodilice (ISO 11070:2014/Amd 1:2018; EN ISO 11070:2014/A1:2018)  
Sterile single-use intravascular introducers, dilators and guidewires (ISO 11070:2014/Amd 1:2018; EN ISO 11070:2014/A1:2018)

HRN EN ISO 18618:2018 en pr  
Stomatologija – Interoperabilnost CAD/CAM sustava (ISO 18618:2018; EN ISO 18618:2018)  
Dentistry – Interoperability of CAD/CAM-systems (ISO 18618:2018; EN ISO 18618:2018)

HRN EN ISO 20696:2018 en pr  
Sterilni kateteri za mokraćnu cijev za jednokratnu upotrebu (ISO 20696:2018; EN ISO 20696:2018)  
Sterile urethral catheters for single use (ISO 20696:2018; EN ISO 20696:2018)

HRN EN ISO 20697:2018 en pr  
Sterilni drenažni kateteri i pomoćni pribor za jednokratnu upotrebu (ISO 20697:2018; EN ISO 20697:2018)  
Sterile drainage catheters and accessory devices for single use (ISO 20697:2018; EN ISO 20697:2018)

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

- HRN EN 2279:2018 en pr  
Zrakoplovstvo – Čelik FE-PM37 – 900 MPa ≤ Rm ≤ 1 100 MPa – Otkivci – De ≤ 150 mm (EN 2279:2018)  
Aerospace series – Steel FE-PM37 – 900 MPa ≤ Rm ≤ 1 100 MPa – Forgings – De ≤ 150 mm (EN 2279:2018)
- HRN EN 2280:2018 en pr  
Zrakoplovstvo – Čelik FE-PM37 – 900 MPa ≤ Rm ≤ 1 100 MPa – Lim – a ≤ 6 mm (EN 2280:2018)  
Aerospace series – Steel FE-PM37 – 900 MPa ≤ Rm ≤ 1 100 MPa – Sheet – a ≤ 6 mm (EN 2280:2018)
- HRN EN 2319:2018 en pr  
Zrakoplovstvo – Legura aluminija 2024 – T3510 – Vučene šipke – a ≤ 75 mm (EN 2319:2018)  
Aerospace series – Aluminium alloy 2024 – T3510 – Drawn bar – a ≤ 75 mm (EN 2319:2018)
- HRN EN 2387:2018 en pr  
Zrakoplovstvo – Legura aluminija 2014A-T6 – Cijevi za konstrukcije – 0, 6 mm ≤ a ≤ 12, 5 mm (EN 2387:2018)  
Aerospace series – Aluminium alloy 2014A-T6 – Tubes for structures – 0, 6 mm ≤ a ≤ 12, 5 mm (EN 2387:2018)
- HRN EN 2799:2018 en pr  
Zrakoplovstvo – Fluorouglična guma (FKM) – Nizak indeks slijeganja – Tvrdoća 90 IRHD (EN 2799:2018)  
Aerospace series – Fluorocarbon rubber (FKM) – Low compressions set – Hardness 90 IRHD (EN 2799:2018)
- HRN EN 3264:2018 en pr  
Zrakoplovstvo – Cijevni priključak 8°30' od legure titana – Matice potisne žice (EN 3264:2018)  
Aerospace series – Pipe coupling 8°30' in titanium alloy – Thrust wire nuts (EN 3264:2018)
- HRN EN 3745-505:2018 en pr  
Zrakoplovstvo – Vlakna i kabeli, optički, za zrakoplove – Metode ispitivanja – 505. dio: Zatezna čvrstoća kabela (EN 3745-505:2018)  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 505: Cable tensile strength (EN 3745-505:2018)
- HRN EN 4510:2018 en pr  
Zrakoplovstvo – Priključci cijevi, 60°, kuglasti, od legure titana TI-P64001, spojnice, ravne, s dva kraja, sa sigurnosnim prstenom (EN 4510:2018)  
Aerospace series – Pipe couplings, 60°, spherical, in titanium alloy TI-P64001, adapters, straight, double end, with locking ring (EN 4510:2018)
- HRN EN 4641-001:2018 en pr  
Zrakoplovstvo – Kabeli, optički, promjera omotača 125 µm – Dio 001: Tehnička specifikacija (EN 4641-001:2018)  
Aerospace series – Cables, optical, 125 µm diameter cladding – Part 001: Technical specification (EN 4641-001:2018)
- HRN EN 4832:2018 en pr  
Zrakoplovstvo – Spojnica, cijevni priključak 24° konusni do 35 000 kPa (5 080 psi) sa sigurnosnim prstenom i redukcijom priključkom – Niz u inčima – Tehnička specifikacija (EN 4832:2018)  
Aerospace series – Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting and Ring-locked fitting-reducer – Inch Series – Technical specification (EN 4832:2018)
- HRN EN 4833:2018 en pr  
Aerospace series – Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting – Flareless End – Inch Series – Extra Fine Thread Pitch (EN 4833:2018)
- HRN EN 4838-004:2018 en pr  
Zrakoplovstvo – Automatski osigurači za prekid električnog luka, jednopolni, temperaturno kompenzirani, nazivnih struja 3 A do 25 A – konstantne frekvencije 115 V a.c. 400 Hz – Dio 004: Sa signalnim kontaktom – Norma za proizvod (EN 4838-004:2018)  
Aerospace series – Arc fault circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A – 115 V a.c. 400 Hz constant frequency – Part 004: With signal contact – Product standard (EN 4838-004:2018)

HRN EN 9115:2018 en pr  
Sustavi upravljanja kvalitetom – Zahtjevi za organizacije u području zrakoplovstva, svemira i obrane – Isporučiva programska podrška (dodatak uz EN 9100) (EN 9115:2018)  
Quality Management Systems – Requirements for Aviation, Space and Defense Organizations – Deliverable Software (Supplement to EN 9100) (EN 9115:2018)

HRN EN 9162:2018 en pr  
Aerospace series – Aerospace Operator Self-Verification Programs (EN 9162:2018)

HRN EN 9300-002:2018 en pr  
Zrakoplovstvo – LOTAR – Dugoročno arhiviranje i učitavanje digitalne tehničke dokumentacije za proizvod kao što su podaci 3D, CAD i PDM – Dio 002: Zahtjevi (EN 9300-002:2018)  
Aerospace series – LOTAR – Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 002: Requirements (EN 9300-002:2018)

HRN EN 9300-010:2018 en pr  
Zrakoplovstvo – LOTAR – Dugoročno arhiviranje i učitavanje digitalne tehničke dokumentacije za proizvod kao što su podaci 3D, CAD i PDM – Dio 010: Pregled toka podataka (EN 9300-010:2018)  
Aerospace series – LOTAR – Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 010: Overview Data Flow (EN 9300-010:2018)

HRN EN 9300-100:2018 en pr  
Zrakoplovstvo – LOTAR – Dugoročno arhiviranje i učitavanje digitalne tehničke dokumentacije za proizvod kao što su podaci 3D, CAD i PDM – 100. dio: Zajednički pojmovi za dugoročno arhiviranje i pronalaženje CAD 3D informacija o mehanici (EN 9300-100:2018)  
Aerospace series – LOTAR – Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 100: Common concepts for Long term archiving and retrieval of CAD 3D mechanical information (EN 9300-100:2018)

HRN EN 9300-110:2018 en pr  
Zrakoplovstvo – LOTAR – Dugoročno arhiviranje i učitavanje digitalne tehničke dokumentacije za proizvod kao što su podaci 3D, CAD i PDM – 110. dio: Jednoznačne 3D geometrijske informacije za CAD mehaničke dijelove (EN 9300-110:2018)  
Aerospace series – LOTAR – Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 110: CAD mechanical 3D Explicit geometry information (EN 9300-110:2018)

HRN EN 9300-115:2018 en pr  
Zrakoplovstvo – LOTAR – Dugoročno arhiviranje i učitavanje digitalne tehničke dokumentacije za proizvod kao što su podaci 3D, CAD i PDM – 150. dio: Eksplicitna struktura CAD sklopova (EN 9300-115:2018)  
Aerospace series – LOTAR – Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data – Part 115: Explicit CAD assembly structure (EN 9300-115:2018)

## HZN/TU V1, *Elektronika 1*

HRN EN 50491-12-1:2018 en pr  
General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Smart grid – Application specification – Interface and framework for customer – Part 12-1: Interface between the CEM and Home/Building Resource manager – General Requirements and Architecture (EN 50491-12-1:2018)

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

HRN EN 50594:2018 en pr  
Kućanski i slični električni aparati – Metode za mjerenje značajka sušilica s bušnjem namijenjenih za komercijalnu uporabu (EN 50594:2018)  
Household and similar electric appliances – Methods for measuring the performance of tumble dryers intended for commercial use (EN 50594:2018)

HRN EN 50640:2018 en pr  
Kućanski i slični električni aparati – Metode za mjerenje značajka perilica odjeće namijenjenih za komercijalnu uporabu (EN 50640:2018)  
Household and similar electric appliances – Methods for measuring the performance of clothes washing machines intended for commercial use (EN 50640:2018)



### 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 8, *Brodogradnja*

prEN ISO 12215-10 en  
Small craft – Hull construction and scantlings – Part 10: Rig loads and rig attachment in sailing craft (ISO/DIS 12215-10:2018)

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

prEN 1869 en  
Fire blankets  
Vatrogasni pokrivači

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

prEN 1753 en  
Magnesium and magnesium alloys – Magnesium alloy ingots and castings  
Magnezij i magnezijeve legure – Ingoti i odljevci od magnezijevih legura

prEN ISO 13520 en  
Determination of ferrite content in austenitic stainless steel castings (ISO 13520:2015)

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

prEN 413-1 en  
Masonry cement – Part 1: Composition, specifications and conformity criteria  
Zidarski cement – 1. dio: Sastav, specifikacije i kriteriji sukladnosti

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

prEN ISO 22232-1 en  
Non-destructive testing – Characterization and verification of ultrasonic test equipment – Part 1: Instruments (ISO/DIS 22232-1:2018)  
Nerazorno ispitivanje – Karakterizacija i provjeravanje opreme za ispitivanje ultrazvukom – 1. dio: Instrumenti (ISO/DIS 22232-1:2018)

prEN ISO 22232-2 en  
Non-destructive testing – Characterization and verification of ultrasonic test equipment – Part 2: Probes (ISO/DIS 22232-2:2018)  
Nerazorno ispitivanje – Karakterizacija i provjeravanje opreme za ispitivanje ultrazvukom – 2. dio: Sonde (ISO/DIS 22232-2:2018)

prEN ISO 22232-3 en  
Non-destructive testing – Characterization and verification of ultrasonic test equipment – Part 3: Combined equipment (ISO/DIS 22232-3:2018)  
Nerazorno ispitivanje – Karakterizacija i provjeravanje opreme za ispitivanje ultrazvukom – 3. dio: Kombinirana oprema (ISO/DIS 22232-3:2018)

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

prEN 13098 en  
Workplace exposure – Measurement of airborne micro-organisms and microbial compounds – General requirements (Revision of EN 13098:2000)

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

prEN ISO 22125-1 en  
Water quality – Technetium-99 – Part 1: Test method using liquid scintillation counting (ISO/DIS 22125-1:2018)  
Kvaliteta vode – Tehnecij-99 – 1. dio: Metoda ispitivanja s upotrebom tekućinske scintilacije (ISO/DIS 22125-1:2018)

prEN ISO 22125-2 en  
Water quality – Technetium-99 – Part 2: Test method using inductively coupled plasma mass spectrometry (ICP-MS) (ISO/DIS 22125-2:2018)  
Kvaliteta vode – Tehnecij-99 – 2. dio: Metoda ispitivanja s upotrebom spektrometrije masa s induktivno spregnutom plazmom (ICP-MS) (ISO/DIS 22125-2:2018)

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

prEN 13373 en  
Natural stone test methods – Determination of geometric characteristics on units  
Natural stone test methods – Determination of geometric characteristics on units

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

prEN ISO 14006 en  
Environmental management systems – Guidelines for incorporating ecodesign (ISO/DIS 14006:2018)  
Sustav upravljanja okolišem – Smjernice za uključivanje ekodizajna (ISO/DIS 14006:2018)

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

prEN 17269 en  
Health informatics – The Patient Summary for Unscheduled, Cross-border Care

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

prEN ISO 28721-1 en  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 1: Quality requirements for apparatus, components, appliances and accessories (ISO/DIS 28721-1:2018)  
Staklasti i porculanski emajli – Staklasto prevučeni uređaji za procesna postrojenja – 1. dio: Zahtjevi za kvalitetu za uređaje, dijelove, aparate i pribor (ISO/DIS 28721-1:2018)

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

prEN ISO 16106 en  
Transport packages for dangerous goods – Dangerous goods packagings, intermediate bulk containers (IBCs) and large packagings – Guidelines for the application of ISO 9001 (ISO/DIS 16106:2018)  
Transportna pakiranja za opasnu robu – Ambalaža za opasnu robu, posredni spremnici za rasuta dobra i velika ambalaža – Smjernice za primjenu ISO 9001 (ISO/DIS 16106:2018)

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

prEN 17293 en  
Temporary works equipment – Execution – Requirements for manufacturing  
Privremena radna oprema – Izvedba – Zahtjevi za proizvodnju

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

prEN 840-1 en  
Mobile waste and recycling containers – Part 1: Containers with 2 wheels with a capacity up to 400 l for comb lifting devices – Dimensions and design  
Pokretni spremnici za otpad i recikliranje – 1. dio: Spremnici s 2 kotača obujma do 400 l za uporabu pomoću naprava za podizanje – Dimenzije i dizajn

prEN 840-2 en  
Mobile waste and recycling containers – Part 2: Containers with 4 wheels with a capacity up to 1 300 l with flat lid(s), for trunnion and/or comb lifting devices – Dimensions and design  
Pokretni spremnici za otpad i recikliranje – 2. dio: Spremnici s 4 kotača obujma do 1 300 l s ravnim poklopcem za podizanje pomoću rukavaca i/ili naprava za podizanje – Dimenzije i dizajn

prEN 840-3 en

Mobile waste and recycling containers – Part 3: Containers with 4 wheels with a capacity up to 1 300 l with dome lid(s), for trunnion and/or comb lifting devices – Dimensions and design

Pokretni spremnici za otpad i recikliranje – 3. dio: Spremnici s 4 kotača obujma do 1 300 l s kliznim poklopcem za podizanje pomoću rukavaca i/ili naprava za podizanje – Dimenzije i dizajn

prEN 840-4 en

Mobile waste and recycling containers – Part 4: Containers with 4 wheels with a capacity up to 1 700 l with flat lid(s), for wide trunnion or BG- and/or wide comb lifting devices – Dimensions and design

Pokretni spremnici za otpad i recikliranje – 4. dio: Spremnici s 4 kotača obujma do 1 700 l s ravnim poklopcem za utovar sustavom široki rukavac ili BG- i/ili utovar napravama za podizanje – Dimenzije i dizajn

prEN 840-5 en

Mobile waste and recycling containers – Part 5: Performance requirements and test methods

Pokretni spremnici za otpad i recikliranje – 5. dio: Zahtjevi izvedbe i metode ispitivanja

prEN 840-6 en

Mobile waste and recycling containers – Part 6: Safety and health requirements

Pokretni spremnici za otpad i recikliranje – 6. dio: Sigurnosni i zdravstveni zahtjevi

prEN 13071-3 en

Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 3: Recommended lifting connections

Stalni spremnici za otpad do 5 000 l koji se podižu i prazne kroz dno – 3. dio: Preporučena spojna oprema za podizanje

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

prEN 15611 en

Railway applications – Braking – Relay valves  
Željeznički sustav – Kočenje – Prijenosni ventili

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

prEN 620 en

Continuous handling equipment and systems – Safety and EMC requirements for fixed belt conveyors for bulk materials  
Prenosila i sustavi neprekidne dobave – Sigurnost i EMS zahtjevi na nepokretne trakaste konvejeve za sipki materijal

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

prEN ISO 179-2 en

Plastics – Determination of Charpy impact properties – Part 2: Instrumented impact test (ISO/DIS 179-2:2018)

Plastika – Određivanje svojstava žilavosti po Charpyju – 2. dio: Dijagramska metoda (ISO/DIS 179-2:2018)

prEN ISO 527-1 en

Plastics – Determination of tensile properties – Part 1: General principles (ISO/DIS 527-1:2018)

Plastika – Određivanje rasteznih svojstava – 1. dio: Opća načela (ISO/DIS 527-1:2018)

prEN ISO 527-3 en

Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets (ISO/FDIS 527-3:2018)

Plastika – Određivanje rasteznih svojstava – 3. dio: Ispitni uvjeti za filmove i folije (ISO/FDIS 527-3:2018)

prEN ISO 11502 en

Plastics – Film and sheeting – Determination of blocking resistance (ISO/DIS 11502:2018)

Plastika – Film i folija – Određivanje otpornosti na blokiranje (ISO/DIS 11502:2018)

prEN ISO 15527 en

Plastics – Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) – Requirements and test methods (ISO/DIS 15527:2018)

Plastika – Tlačno oblikovane ploče od polietilena (PE-UHMW, PE-HD) – Zahtjevi i ispitne metode (ISO/DIS 15527:2018)

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

prEN ISO 14405-2 en

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

Geometrijske specifikacije proizvoda (GSP) – Tolerancije dimenzija – 2. dio: Dimenzije koje nisu duljinske ili kutne (ISO/FDIS 14405-2:2018)

EN ISO 16610-61:2015/prA1 en

Geometrical product specification (GPS) – Filtration – Part 61: Linear areal filters – Gaussian filters (ISO 16610-61:2015/DAMd 1:2018)

Geometrijske specifikacije proizvoda (GSP) – Filtriranje – 61. dio: Linearni ploštinski filtri – Gaussovi filtri (ISO 16610-61:2015/DAMd 1:2018)

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

prEN 17272 en

Chemical Disinfectants and Antiseptics – Quantitative Carrier test for Airborne Room Disinfection by Automated Processes – Determination of Bactericidal, Fungicidal, Yeastocidal, Sporocidal, Tuberculocidal, Mycobactericidal, Virucidal and Phagocidal Activities in the Medical Area, Veterinary Area and Food, Industrial, Domestic and Institutional Areas – Test Methods and Requirements Phase 2, Step2

Kemijski dezinficijensi i antiseptici – Kvantitativni test na nosaču za procjenu dezinfekcije prostorija zrakom automatskim procesima – Određivanje baktericidne, fungicidne, djelotvornosti na kvasce, sporicidne, tuberkulocidne, mikobaktericidne, virucidne i fagocidne djelotvornosti kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u medicini, veterinarstvu, područjima povezanim s hranom, industriji, domaćinstvu i ustanovama – Metode ispitivanja i zahtjevi (faza 2/korak 2)

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

prEN ISO 14971 en

Medical devices – Application of risk management to medical devices (ISO/DIS 14971:2018)

Medicinski proizvodi – Primjena upravljanja rizikom za medicinske proizvode (ISO/DIS 14971:2018)

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

prEN 352-1 en

Hearing protectors – General requirements – Part 1: Earmuffs  
Štitnici sluha – Opći zahtjevi – 1. dio: Ušne školjke

prEN 352-2 en

Hearing protectors – General requirements – Part 2: Earplugs  
Štitnici sluha – Opći zahtjevi – 2. dio: Ušni čepovi

prEN 352-3 en

Hearing protectors – General requirements – Part 3: Earmuffs attached to head protection and/or face protection devices  
Štitnici sluha – Opći zahtjevi – 3. dio: Ušne školjke pričvršćene za naprave koje štite glavu i/ili lice

prEN ISO 13287 en

Personal protective equipment – Footwear – Test method for slip resistance (ISO/DIS 13287:2018)

Osobna zaštitna oprema – Obuća – Ispitna metoda za otpornost na proklizavanje (ISO/DIS 13287:2018)

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

prEN 13274-2 en

Respiratory protective devices – Methods of test – Part 2: Practical performance tests  
Zaštitne naprave za disanje – Metode ispitivanja – 2. dio: Ispitivanja svojstava u praksi

prEN 13274-4 en

Respiratory protective devices – Methods of test – Part 4: Flame test  
Zaštitne naprave za disanje – Metode ispitivanja – 4. dio: Ispitivanja gorenja

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

prEN ISO 22744-1 en  
Textiles and textile product – Critical substances potentially present in components of textile product materials – Determination of organotin compounds – Part 1: Method using gas chromatography (ISO/DIS 22744-1:2018)

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

prEN 14619:2018 en  
Roller sports equipment – Kick scooters – Safety requirements and test methods  
Sportska oprema za koturaljanje – Romobili – Sigurnosni zahtjevi i metode ispitivanja

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

ISO 10001:2018 en  
Quality management – Customer satisfaction – Guidelines for codes of conduct for organizations  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za kodeks ponašanja za organizacije

ISO 10002:2018 en  
Quality management – Customer satisfaction – Guidelines for complaints handling in organizations  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za postupanje s reklamacijama u organizacijama

ISO 10003:2018 en  
Quality management – Customer satisfaction – Guidelines for dispute resolution external to organizations  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za rješavanje sporova izvan organizacija

ISO 10004:2018 en  
Quality management – Customer satisfaction – Guidelines for monitoring and measuring  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za praćenje i mjerenje

ISO 10005:2018 en  
Quality management – Guidelines for quality plans  
Sustavi upravljanja kvalitetom – Smjernice za planove kvalitete

## **HZN/TO E11, Nadzemni vodovi**

EN 50341-2-9:2017/A1:2018 en  
Overhead electrical lines exceeding AC 1 kV – Part 2-9: National Normative Aspects (NNA) for Great Britain and Northern Ireland (based on EN 50341-1:2012)  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-9: Nacionalni normativni aspekti (NNA) za Veliku Britaniju i Sjevernu Irsku (na temelju EN 50341-1:2012)

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

EN 60674-2:2017/prA1:2018 en  
Specification for plastic films for electrical purposes – Part 2: Methods of test (IEC 60674-2:2016/am1:201X)  
Specifikacija za plastične folije za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60674-2:2016/am1:201X)

prEN IEC 60674-3-2:2018 en  
Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Requirements for balanced biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation (IEC 60674-3-2:201X)  
Specifikacija za plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 2. list: Zahtjevi za balansirano dvostruko orijentirane polietilen tereftalatne folije (PET) koje se upotrebljavaju za električnu izolaciju (IEC 60674-3-2:201X)

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

prEN 50041:2018 en  
Low-voltage switchgear and controlgear – Control switches – Position switches 42,5 × 80 – Dimensions and characteristics  
Niskonaponska sklopna aparatura za upotrebu u industriji – Upravljačke sklopke – Pozicijske sklopke 42,5 x 80 – Dimenzije i karakteristike

prEN 50047:2018 en  
Low-voltage switchgear and controlgear – Control switches – Position switches 30 × 55 – Dimensions and characteristics  
Niskonaponska sklopna aparatura za upotrebu u industriji – Upravljačke sklopke – Pozicijske sklopke 30 x 55 – Dimenzije i karakteristike

EN 62026-2:2013/prA1:2018 en  
Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 2: Actuator sensor interface (AS-i) (IEC 62026-2:2008/am1:201X)  
Niskonaponska sklopna aparatura – Sučelja između upravljačkih i periferijskih uređaja – 2. dio: Sučelje za senzor pokretača (IEC 62026-2:2008/am1:201X)

## **HZN/TO E31, Eksplozivne atmosfere**

EN 60079-6:2015/prA1:2018 en  
Explosive atmospheres – Part 6: Equipment protection by liquid immersion "o" (IEC 60079-6:2015/am1:201X)  
Eksplozivne atmosfere – 6. dio: Vrsta zaštite opreme uranjanje "o" (IEC 60079-6:2015/am1:201X)

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

FprEN 62115:2016/prAA:2018 en  
Electric toys – Safety  
Električne igračke – Sigurnost

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

prEN IEC 60580:2018 en  
Medical electrical equipment – Dose area product meters (IEC 60580:201X)  
Medicinska električna oprema – Mjerila radioaktivne ozračenosti prostora (IEC 60580:201X)

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

prHD 60364-7-710:2018 en  
Low voltage electrical installations – Part 7-710: Requirements for special installations or locations – Medical locations (IEC 60364-7-710:201X)  
Niskonaponske električne instalacije – Dio 7-710: Zahtjevi za posebne instalacije ili prostore – Prostori za medicinsku upotrebu (IEC 60364-7-710:201X)

FprHD 60364-8-2:2018/FprAA:2018 en  
Low-voltage electrical installations – Part 8-2: Prosumer's low-voltage electrical installations  
Niskonaponske električne instalacije – Dio 8-2: Pametne niskonaponske električne instalacije

## **HZN/TO E69, Cestovna i industrijska električna vozila**

prEN IEC 61851-23-2:2018 en  
Electric vehicle conductive charging system – Part 23-2: DC EV supply equipment where protection relies on electrical separation (IEC 61851-23-2:201X)  
Sustav kontaktnog punjenja električnih vozila – Dio 23-2: Oprema za punjenje električnih vozila istosmjernom strujom, kod koje se zaštita oslanja na električko odvajanje (IEC 61851-23-2:201X)

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

EN 60730-1:2016/prA2:2018 en  
Automatic electrical controls – Part 1: General requirements (IEC 60730-1:2013/am2:201X)  
Električne naprave za automatsko upravljanje – 1. dio: Opći zahtjevi (IEC 60730-1:2013/am2:201X)

prEN IEC 60730-2-11:2018 en  
Automatic electrical controls – Part 2-11: Particular requirements for energy regulators (IEC 60730-2-11:201X)

EN 60730-2-6:2016/prA1:2018 en  
Automatic electrical controls – Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements (IEC 60730-2-6:2015/am1:201X)  
Električne naprave za automatsko upravljanje – Dio 2-6: Posebni zahtjevi za električne regulatore tlaka, uključujući mehaničke zahtjeve (IEC 60730-2-6:2015/am1:201X)

## **HZN/TO E99, Električne instalacije iznad 1kV izmjenične i 1,5 kV istosmjerne struje**

prEN IEC 60071-1:2018 en  
Insulation co-ordination – Part 1: Definitions, principles and rules (Proposed horizontal standard) (IEC 60071-1:201X)  
Usklađivanje izolacije – 1. dio: Definicije, načela i pravila (Predloženi horizontalni standard) (IEC 60071-1:201X)

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

prEN IEC 63034:2018 en  
Microspeakers (TC 100) (IEC 63034:201X)

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

EN 62209-2:2010/prA1:2018 en  
Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) (IEC 62209-2:2010/am1:201X)  
Izloženost ljudi radiofrekvencijskim poljima ručnih uređaja i uređaja za bežičnu komunikaciju postavljenih na tijelo – Modeli ljudskog tijela, instrumenti i postupci – 2. dio: Postupak određivanja gustoće apsorbirane snage (SAR) za bežične komunikacijske uređaje koji se koriste u neposrednoj blizini ljudskog tijela (frekvencijski raspon od 30 MHz do 6 GHz) (IEC 62209-2:2010/am1:201X)

prEN IEC 62209-3:2018 en  
Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 3: Vector probe systems (Frequency range of 100 MHz to 6 GHz) (IEC 62209-3:201X)

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

EN 50561-1:2013/FprA2 en  
Power line communication apparatus used in low-voltage installations – Radio disturbance characteristics – Limits and methods of measurement – Part 1: Apparatus for in-home use  
Uređaji za komunikaciju preko energetskih vodova koji se upotrebljavaju u niskonaponskim instalacijama – Karakteristike radio smetnji – Granice i metode mjerenja – 1. dio: Uređaji za kućnu upotrebu

EN 55032:2015/prA1:2018 en  
Electromagnetic compatibility of multimedia equipment – Emission requirements – Fragment 1 (CISPR 32:2015/am1:201X {frag 1})  
Elektromagnetska kompatibilnost multimedijске opreme – Zahtjevi za emisiju – Fragment 1 (CISPR 32:2015/am1:201X {frag 1})

EN 55032:2015/prA1:2018 en  
Electromagnetic compatibility of multimedia equipment – Emission requirements – Fragment 2 (CISPR 32:2015/am1:201X {frag 2})  
Elektromagnetska kompatibilnost multimedijске opreme – Zahtjevi za emisiju – Fragment 2 (CISPR 32:2015/am1:201X {frag 2})

EN 55032:2015/prA1:2018 en  
Electromagnetic compatibility of multimedia equipment – Emission requirements – Fragment 3 (CISPR 32:2015/A1:201X {frag 3})  
Elektromagnetska kompatibilnost multimedijске opreme – Zahtjevi za emisiju – Fragment 3 (CISPR 32:2015/A1:201X {frag 3})

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

EN 50600-4-3:2016/prAA:2018 en  
Information technology – Data centre facilities and infrastructures – Part 4-3: Renewable Energy Factor

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

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

Draft EN 303 470 V1.0.0:2018 en  
Environmental Engineering (EE) – Energy Efficiency measurement methodology, and metrics for servers  
Ekoinženjering (EE) – Metodologija mjerenja energetske učinkovitosti i metrika za poslužitelje

Draft EN 303 472 V1.0.0:2018 en  
Environmental Engineering (EE) – Energy Efficiency measurement methodology, and metrics for RAN equipment  
Ekoinženjering (EE) – Metodologija mjerenja energetske učinkovitosti i metrika za RAN opremu

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

prEN ISO 5832-1 en  
Implants for surgery – Metallic materials – Part 1: Wrought stainless steel (ISO 5832-1:2016)  
Kirurški implantati – Metalni materijali – 1. dio: Kovani nehrđajući čelik (ISO 5832-1:2016)

prEN ISO 5832-6 en  
Implants for surgery – Metallic materials – Part 6: Wrought cobalt-nickel-chromium-molybdenum alloy (ISO 5832-6:1997)  
Kirurški implantati – Metalni materijali – 6. dio: Kovana legura kobalta, nikla, kroma i molibdena (ISO 5832-6:1997)

prEN ISO 5832-7 en  
Implants for surgery – Metallic materials – Part 7: Forgeable and cold-formed cobalt-chromium-nickel-molybdenum-iron alloy (ISO 5832-7:2016)  
Kirurški implantati – Metalni materijali – 7. dio: Legura kobalta, kroma, nikla, molibdena i željeza pogodna za kovanje i hladno oblikovanje (ISO 5832-7:2016)

EN ISO 8871-3:2004/prA1 en  
Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 3: Determination of released-particle count (ISO 8871-3:2003/Amd 1:2018)  
Elastomerni dijelovi za parenteralne preparate i uređaje za farmaceutsku primjenu – 3. dio: Određivanje broja oslobođenih čestica (ISO 8871-3:2003/Amd 1:2018)

EN 16844:2017+A1:2018 en  
Aesthetic medicine services – Non-surgical medical treatments  
Estetske medicinske usluge – Nekirurški medicinski postupci

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

FprEN 2349-001 en  
Aerospace series – Requirements and test procedures for switching devices

FprEN 3086 en  
Aerospace series – Hose assemblies – Designation limited to 15 digits

FprEN 3645-004 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 004: Receptacle, hermetic, square flange mounting – Product standard  
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 004: Utičnica, bez dotoka zraka, s kvadratnom prirubnicom za montažu – Norma za proizvod

FprEN 3645-009 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 009: Receptacle, round flange, jam nut mounting – Product standard  
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 009: Utičnica, okrugla prirubnica, ugradanja sa kontra maticom – Norma za proizvod

- FprEN 4842 en  
Aerospace series – X5CrNiCu15-5 (1.4545) – Consumable electrode remelted (ESR or VAR) – Solution treated and precipitation treated (H1025) – Bar for machining – a or D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Premium quality (pq)
- FprEN 6059-402 en  
Aerospace Series – Electrical cables, installation – Protection sleeves – Test methods – Part 402: Bending properties
- prEN 16602-20 en  
Space product assurance – Quality assurance  
Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Osiguravanje kvalitete
- prEN 16603-50-11 en  
Space engineering – SpaceFibre – Very high-speed serial link
- prEN 16796-6 en  
Energy efficiency of industrial trucks – Test methods – Part 6: Container Straddle Carriers

## HZN/TU V1, *Elektronika 1*

- prEN IEC 60539-2:2018 en  
Directly heated negative temperature coefficient thermistors – Part 2: Sectional specification – Surface mount negative temperature coefficient thermistors (IEC 60539-2:201X)
- prEN IEC 60749-20-1:2018 en  
Semiconductor devices – Mechanical and climatic test methods – Part 20-1: Handling, packing, labelling and shipping of surface-mount devices sensitive to the combined effect of moisture and soldering heat (IEC 60749-20-1:201X)
- prEN IEC 60793-2-10:2018 en  
Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres (IEC 60793-2-10:201X)
- prEN IEC 61010-2-011:2018 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-011: Particular requirements for refrigerating equipment (IEC 61010-2-011:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-011: Posebni zahtjevi za rashladnu opremu (IEC 61010-2-011:201X)
- prEN 61010-2-032:2018 en  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement (IEC 61010-2-032:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-032: Posebni zahtjevi za ručne strujne senzore za električna ispitivanja i mjerenja (IEC 61010-2-032:201X)
- prEN 61010-2-033:2018 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-033: Particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage (IEC 61010-2-033:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-033: Posebni zahtjevi za ručne milimetre i druga ručna mjerila za kućnu i profesionalnu uporabu koja mogu mjeriti napon javne električne mreže (IEC 61010-2-033:201X)
- prEN 61010-2-120:2018 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-120: Particular safety requirements for machinery aspects of equipment (IEC 61010-2-120:201X)  
Sigurnosni zahtjevi za električnu opremu za mjerenje, upravljanje i za korištenje u laboratoriju – Dio 2-120: Posebni zahtjevi sigurnosti za strojne dijelove opreme (IEC 61010-2-120:201X)

- prEN IEC 61076-8-100:2018 en  
Connectors for electronic equipment – Product requirements – Part 8-100: Power connectors – Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 20 A (IEC 61076-8-100:201X)
- prEN IEC 61076-8-101:2018 en  
Connectors for electronic equipment – Product requirements – Part 8-101: Power connectors – Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 40 A (IEC 61076-8-101:201X)
- prEN IEC 61300-3-54:2018 en  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-54: Examinations and measurements – Angular misalignment between ferrule bore axis and ferrule axes for cylindrical ferrules (IEC 61300-3-54:201X)
- prEN IEC 62435-3:2018 en  
Electronic components – Long-term storage of electronic semiconductor devices – Part 3: Data (IEC 62435-3:201X)
- EN 62790:2015/prA1:2018 en  
Junction boxes for photovoltaic modules – Safety requirements and tests (IEC 62790:2014/am1:201X)
- prEN IEC 63078-8-102:2018 en  
Connectors for electronic equipment – Product requirements – Part 8-102: Power connectors – Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 150 A (IEC 61076-8-102:201X)
- prEN IEC 63093-12:2018 en  
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 12: Ring-cores (IEC 63093-12:201X)

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

- prEN IEC 60086-4:2018 en  
Primary batteries – Part 4: Safety of lithium batteries (IEC 60086-4:201X)  
Primarne baterije – 4. dio: Sigurnost litijjskih baterija (IEC 60086-4:201X)
- prEN 60436:2018 en  
Electric dishwashers for household use – Methods for measuring the performance (IEC 60436:2015, MOD)  
Električne perilice posuđa za kućansku uporabu – Metode za mjerenje radnih značajka (IEC 60436:2015, MOD)
- prEN IEC 60675-2:2018 en  
Household electric direct-acting room heaters – Methods for measuring performance – Part 2: Additional provisions for the measurement of the radiation factor (IEC 60675-2:201X)  
Kućanske sobne grijalice s izravnim grijanjem – Postupak mjerenja radnih značajka – 2. dio: Dodatni zahtjevi za mjerenje faktora zračenja (IEC 60675-2:201X)
- prEN IEC 60675-3:2018 en  
Household electric direct-acting room heaters – Methods for measuring performance – Part 3: Additional provisions for the measurement of the radiation efficiency (IEC 60675-3:201X)  
Kućanske sobne grijalice s izravnim grijanjem – Postupak mjerenja radnih značajka – 3. dio: Dodatni zahtjevi za mjerenje učinkovitosti zračenja (IEC 60675-3:201X)
- prEN IEC 61820-1:2018 en  
Electrical installations for aeronautical ground lighting at aerodromes – Part 1: Fundamental principles (IEC 61820-1:201X)  
Električne instalacije za zemaljsko osvjetljenje u zrakoplovstvu, na zletištim – 1. dio: Osnovna načela (IEC 61820-1:201X)
- EN 62841-2-1:2018/prAB en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-1: Particular requirements for hand-held drills and impact drills  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-2: Posebni zahtjevi za ručne bušilice i udarne bušilice

prEN IEC 62841-2-3:2018 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-3: Particular requirements for hand-held grinders, disc-type polishers and disc-type sanders (IEC 62841-2-3:201X)  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-3: Posebni zahtjevi za ručne brusilice, uređaje za poliranje s diskom i pjeskarilice s diskom (IEC 62841-2-3:201X)

prEN IEC 63056:2018 en  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems (IEC 63056:201X)  
Sekundarni članci i baterije koje sadrže alkalne ili druge nekisele elektrolite – Sigurnosni zahtjevi za sekundarne litijeve članke i baterije za uporabu u sustavima za pohranu električne energije (IEC 63056:201X)

prEN IEC 63057:2018 en  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion (IEC 63057:201X)  
Sekundarni članci i baterije koje sadrže alkalne ili druge nekisele elektrolite – Sigurnosni zahtjevi za sekundarne litijeve baterije za uporabu u cestovnim vozilima, osim za pogon (IEC 63057:201X)

prEN IEC 63078:2018 en  
Installations for electroheating and electromagnetic processing – Test methods for induction through-heating installations (IEC 63078:201X)

## 1.4 Povučene hrvatske norme

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

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

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

HRN ISO 302:2011 en  
Pulpe – Određivanje Kappa broja (ISO 302:2004)  
Pulps – Determination of Kappa number (ISO 302:2004)  
- zamijenjena s: HRN ISO 302:2018

HRN ISO 699:2001 en  
Pulpe – Određivanje otpornosti prema lužinama (ISO 699:1982)  
Pulps – Determination of alkali resistance (ISO 699:1982)  
- zamijenjena s: HRN ISO 699:2018

HRN ISO 1762:2011 en  
Papir, karton i pulpe – Određivanje ostatka (pepela) žarenjem na 525 °C (ISO 1762:2001)  
Paper, board and pulps – Determination of residue (ash) on ignition at 525 °C (ISO 1762:2001)  
- zamijenjena s: HRN ISO 1762:2018

HRN ISO 2144:2001 en  
Papir, karton i pulpe – Određivanje ostatka (pepela) žarenjem na 900 °C (ISO 2144:1997)  
Paper, board and pulps – Determination of residue (ash) on ignition at 900 degrees C (ISO 2144:1997)  
- zamijenjena s: HRN ISO 2144:2018

HRN ISO 2470-1:2011 en  
Papir, karton i pulpa – Mjerenje faktora refleksije difuznoga plavog svjetla – 1. dio: Uvjeti pri unutrašnjem dnevnom svjetlu (ISO svjetlina) (ISO 2470-1:2009)  
Paper, board and pulps – Measurement of diffuse blue reflectance factor – Part 1: Indoor daylight conditions (ISO brightness) (ISO 2470-1:2009)  
- zamijenjena s: HRN ISO 2470-1:2018

HRN ISO 2528:2002 en  
Listovni materijali – Određivanje postotka propusnosti vodene pare – Gravimetrijska (pomoću posudice) metoda (ISO 2528:1995)  
Sheet materials – Determination of water vapour transmission rate – Gravimetric (dish) method (ISO 2528:1995)  
- zamijenjena s: HRN ISO 2528:2018

HRN ISO 3260:2001 en  
Pulpe – Određivanje potrošnje klora (Stupanj delignifikacije) (ISO 3260:1982)  
Pulps – Determination of chlorine consumption (Degree of delignification) (ISO 3260:1982)  
- zamijenjena s: HRN ISO 3260:2018

HRN ISO 5629:2002 en  
Papir i karton – Određivanje krutosti – Metoda rezonancije (ISO 5629:1983)  
Paper and board – Determination of bending stiffness – Resonance method (ISO 5629:1983)  
- zamijenjena s: HRN ISO 5629:2018

HRN ISO 5631-1:2011 en  
Papir i karton – Određivanje boje difuznom refleksijom – 1. dio: Uvjeti pri unutrašnjem dnevnom svjetlu (C/2 stupnja) (ISO 5631-1:2009)  
Paper and board – Determination of colour by diffuse reflectance – Part 1: Indoor daylight conditions (C/2 degrees) (ISO 5631-1:2009)  
- zamijenjena s: HRN ISO 5631-1:2018

HRN ISO 5631-2:2015 en  
Papir i karton – Određivanje boje difuznom reflektancijom – 2. dio: Uvjeti pri vanjskom dnevnom svjetlu (D65/10 stupnjeva) (ISO 5631-2:2014)  
Paper and board – Determination of colour by diffuse reflectance – Part 2: Outdoor daylight conditions (D65/10 degrees) (ISO 5631-2:2014)  
- zamijenjena s: HRN ISO 5631-2:2018

HRN ISO 5631-3:2015 en  
Papir i karton – Određivanje boje difuznom reflektancijom – 3. dio: Osvjetljenje kod unutarnjih uvjeta (D50/2 stupnja) (ISO 5631-3:2014)  
Paper and board – Determination of colour by diffuse reflectance – Part 3: Indoor illumination conditions (D50/2 degrees) (ISO 5631-3:2014)  
- zamijenjena s: HRN ISO 5631-3:2018

HRN ISO 8791-3:2011 en  
Papir i karton – Određivanje hrapavosti/glatkoće (metode propuštanja zraka) – 3. dio: Sheffieldova metoda (ISO 8791-3:2005)  
Paper and board – Determination of roughness/smoothness (air leak methods) – Part 3: Sheffield method (ISO 8791-3:2005)  
- zamijenjena s: HRN ISO 8791-3:2018

HRN ISO 9197:2011 en  
Papir, karton i pulpe – Određivanje vodotopljivih klorida (ISO 9197:2006)  
Paper, board and pulps – Determination of water-soluble chlorides (ISO 9197:2006)  
- zamijenjena s: HRN ISO 9197:2018

HRN ISO 9416:2011 en  
Papir – Određivanje rasipanja svjetlosti i koeficijenta apsorpcije (uporabom Kubelka-Munkove teorije) (ISO 9416:2009)  
Paper – Determination of light scattering and absorption coefficients (using Kubelka-Munk theory) (ISO 9416:2009)  
- zamijenjena s: HRN ISO 9416:2018

HRN ISO 11093-4:2002 en  
Papir i karton – Ispitivanje papirnih cijevi – 4. dio: Mjerenje dimenzija (ISO 11093-4:1997)  
Paper and board – Testing of cores – Part 4: Measurement of dimensions (ISO 11093-4:1997)  
- zamijenjena s: HRN ISO 11093-4:2018

HRN ISO 11093-5:2011 en  
Papir i karton – Ispitivanje papirnih cijevi – 5. dio: Određivanje karakteristika koncentrične rotacije (ISO 11093-5:2009+Cor 1:2010)  
Paper and board – Testing of cores – Part 5: Determination of characteristics of concentric rotation (ISO 11093-5:2009+Cor 1:2010)  
- zamijenjena s: HRN ISO 11093-5:2018

HRN ISO 11093-8:2015 en  
Papir i karton – Ispitivanje papirnih cijevi – 8. dio: Određivanje prirodne frekvencije i modula elastičnosti pomoću eksperimentalne modalne analize (ISO 11093-8:2012)  
Paper and board – Testing of cores – Part 8: Determination of natural frequency and flexural modulus by experimental modal analysis (ISO 11093-8:2012)  
- zamijenjena s: HRN ISO 11093-8:2018

HRN ISO 11475:2011 en  
Papir i karton – Određivanje CIE bjeline, D65/10° (na vanjskom dnevnom svjetlu) (ISO 11475:2004)  
Paper and board – Determination of CIE whiteness, D65/10 degrees (outdoor daylight) (ISO 11475:2004)  
- zamijenjena s: HRN ISO 11475:2018

HRN ISO 11476:2011 en  
Papir i karton – Određivanje CIE bjeline, C/2° (u uvjetima unutrašnje osvjetljenosti) (ISO 11476:2010)  
Paper and board – Determination of CIE whiteness, C/2 degrees (indoor illumination conditions) (ISO 11476:2010)  
- zamijenjena s: HRN ISO 11476:2018

HRN ISO 11480:2001 en  
Pulpa, papir i karton – Određivanje ukupnog klora i organski vezanog klora (ISO 11480:1997)  
Pulp, paper and board – Determination of total chlorine and organically bound chlorine (ISO 11480:1997)  
- zamijenjena s: HRN ISO 11480:2018

HRN ISO 15360-2:2015 en  
Reciklirane pulpe – Procjena ljepljivih čestica i plastike – 2. dio: Metoda slikovne analize (ISO 15360-2:2001+Cor 1:2007)  
Recycled pulps – Estimation of Stickies and Plastics – Part 2: Image analysis method (ISO 15360-2:2001+Cor 1:2007)  
- zamijenjena s: HRN ISO 15360-2:2018

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

HRN EN ISO 15085:2005/A1:2010 en  
Mala plovila – Čovjek u moru, sprečavanje i spašavanje – Amandman 1 (ISO 15085:2003/Amd 1:2009; EN ISO 15085:2003/A1:2009)  
Small craft – Man-overboard prevention and recovery – Amendment 1 (ISO 15085:2003/Amd 1:2009; EN ISO 15085:2003/A1:2009)  
- zamijenjena s: HRN EN ISO 15085:2005/A2:2018

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

HRN EN ISO 4264:2008 en  
Naftni proizvodi – Izračunavanje cetanskog indeksa za srednje destilatna goriva pomoću jednadžbe s četiri veličine (ISO 4264:2007; EN ISO 4264:2007)  
Petroleum products – Calculation of cetane index of middle-distillate fuels by the four-variable equation (ISO 4264:2007; EN ISO 4264:2007)  
- zamijenjena s: HRN EN ISO 4264:2018

HRN EN 15940:2016 en  
Goriva za motorna vozila – Parafinska dizelska goriva dobivena sintezom ili hidrobradom – Zahtjevi i metode ispitivanja (EN 15940:2016)  
Automotive fuels – Paraffinic diesel fuel from synthesis or hydrotreatment – Requirements and test methods (EN 15940:2016)  
- zamijenjena s: HRN EN 15940:2018

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

HRN EN ISO 10042:2008 en  
Zavarivanje – Elektrolučno zavareni spojevi aluminija i njegovih legura – Razine kvalitete s obzirom na nepravilnosti (ISO 10042:2005; EN ISO 10042:2005)  
Welding – Arc-welded joints in aluminium and its alloys – Quality levels for imperfections (ISO 10042:2005; EN ISO 10042:2005)  
- zamijenjena s: HRN EN ISO 10042:2018

HRN EN ISO 10042:2008/Ispr.1:2008 en  
Zavarivanje – Elektrolučno zavareni spojevi aluminija i njegovih legura – Razine kvalitete s obzirom na nepravilnosti (ISO 10042:2005/Cor 1:2006; EN ISO 10042:2005/AC:2006)  
Welding – Arc-welded joints in aluminium and its alloys – Quality levels for imperfections (ISO 10042:2005/Cor 1:2006; EN ISO 10042:2005/AC:2006)  
- zamijenjena s: HRN EN ISO 10042:2018

HRN EN ISO 15612:2004 en  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Kvalifikacija prihvaćenjem normiranoga zavarivačkog postupka (ISO 15612:2004; EN ISO 15612:2004)  
Specification and qualification of welding procedures for metallic materials – Qualification by adoption of a standard welding procedure (ISO 15612:2004; EN ISO 15612:2004)  
- zamijenjena s: HRN EN ISO 15612:2018

## **HZN/TO 92, Zaštita od požara**

HRN EN ISO 1716:2011 en  
Ispitivanja reakcije na požar proizvoda – Određivanje bruto toplinskog potencijala (kalorična vrijednost) (ISO 1716:2010; EN ISO 1716:2010)  
Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value) (ISO 1716:2010; EN ISO 1716:2010)  
- zamijenjena s: HRN EN ISO 1716:2018

## **HZN/TO 120, Koža i obuća**

HRN EN ISO 4048:2008 en  
Koža – Kemijska ispitivanja – Određivanje tvari topljivih u diklormetanu i sadržaja slobodnih masnih kiselina (ISO 4048:2008; EN ISO 4048:2008)  
Leather – Chemical tests – Determination of matter soluble in dichloromethane and free fatty acid content (ISO 4048:2008; EN ISO 4048:2008)  
- zamijenjena s: HRN EN ISO 4048:2018

HRN EN ISO 4098:2008 en  
Koža – Kemijska ispitivanja – Određivanje tvari topljivih u vodi, anorganskih i organskih vodotopljivih tvari (ISO 4098:2006; EN ISO 4098:2006)  
Leather – Chemical tests – Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter (ISO 4098:2006; EN ISO 4098:2006)  
- zamijenjena s: HRN EN ISO 4098:2018

HRN EN ISO 5398-1:2008 en  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 1. dio: Metoda titracije (ISO 5398-1:2007; EN ISO 5398-1:2007)  
Leather – Chemical determination of chromic oxide content – Part 1: Quantification by titration (ISO 5398-1:2007; EN ISO 5398-1:2007)  
- zamijenjena s: HRN EN ISO 5398-1:2018

HRN EN ISO 5398-3:2008 en  
Koža – Kemijsko određivanje sadržaja kromovih oksida – 3. dio: Metoda atomske apsorpcijske spektrometrije (ISO 5398-3:2007; EN ISO 5398-3:2007)  
Leather – Chemical determination of chromic oxide content – Part 3: Quantification by atomic absorption spectrometry (ISO 5398-3:2007; EN ISO 5398-3:2007)  
- zamijenjena s: HRN EN ISO 5398-3:2018

HRN EN ISO 17708:2008 en  
Obuća – Metode ispitivanja za cijelu cipelu – Prianjanje gornjišta na donjište (ISO 17708:2003; EN ISO 17708:2003)  
Footwear – Test methods for whole shoe – Upper sole adhesion (ISO 17708:2003; EN ISO 17708:2003)  
- zamijenjena s: HRN EN ISO 17708:2018

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

HRN EN 13976-1:2011 en  
Sustavi za spašavanje – Transport inkubatora – 1. dio: Uvjeti povezivanja (EN 13976-1:2011)  
Rescue systems – Transportation of incubators – Part 1: Interface conditions (EN 13976-1:2011)  
- zamijenjena s: HRN EN 13976-1:2018

HRN EN 13976-2:2011 en  
Sustavi za spašavanje – Transport inkubatora – 2. dio: Zahtjevi za sustav (EN 13976-2:2011)  
Rescue systems – Transportation of incubators – Part 2: System requirements (EN 13976-2:2011)  
- zamijenjena s: HRN EN 13976-2:2018

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

HRN EN 1090-2:2011 en  
Izvedba čeličnih i aluminijevih konstrukcija – 2. dio: Tehnički zahtjevi za čelične konstrukcije (EN 1090-2:2008+A1:2011)  
Execution of steel structures and aluminium structures – Part 2: Technical requirements for steel structures (EN 1090-2:2008+A1:2011)  
- zamijenjena s: HRN EN 1090-2:2018

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

HRN EN 81-73:2006 en  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 73. dio: Način rada u slučaju požara (EN 81-73:2005)  
Safety rules for the construction and installation of lifts – Particular applications for passenger and goods passenger lifts – Part 73: Behaviour of lifts in the event of fire (EN 81-73:2005)  
- zamijenjena s: HRN EN 81-73:2016

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

HRN EN 71-1:2015 hr-en  
Sigurnost igračkaka – 1. dio: Mehanička i fizikalna svojstva (EN 71-1:2014)  
Safety of toys – Part 1: Mechanical and physical properties (EN 71-1:2014)  
- zamijenjena s: HRN EN 71-1:2018

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

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

HRS CEN ISO/TS 17892-12:2008 en  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 12. dio: Određivanje Atterbergovih granica (ISO/TS 17892-12:2004; CEN ISO/TS 17892-12:2004)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 12: Determination of Atterberg limits (ISO/TS 17892-12:2004; CEN ISO/TS 17892-12:2004)  
- zamijenjena s: HRN EN ISO 17892-12:2018

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

HRN EN ISO 4957:2008 en  
Alatni čelici (ISO 4957:1999; EN ISO 4957:1999)  
Tool steels (ISO 4957:1999; EN ISO 4957:1999)  
- zamijenjena s: HRN EN ISO 4957:2018

HRN EN 10221:2008 en  
Razredi kvalitete površine toplo valjanih šipki i valjanih žica – Tehnički uvjeti isporuke (EN 10221:1995)  
Surface quality classes for hot-rolled bars and rods – Technical delivery conditions (EN 10221:1995)  
- zamijenjena s: HRN EN ISO 9443:2018

HRN EN 10277-1:2009 en  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke – 1. dio: Općenito (EN 10277-1:2008)  
Bright steel products – Technical delivery conditions – Part 1: General (EN 10277-1:2008)  
- zamijenjena s: HRN EN 10277:2018

HRN EN 10277-2:2009 en  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke – 2. dio: Čelici za opću strojogradnju (EN 10277-2:2008)  
Bright steel products – Technical delivery conditions – Part 2: Steels for general engineering purposes (EN 10277-2:2008)  
- zamijenjena s: HRN EN 10277:2018

HRN EN 10277-3:2009 en  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke – 3. dio: Čelici za automate (EN 10277-3:2008)  
Bright steel products – Technical delivery conditions – Part 3: Free-cutting steels (EN 10277-3:2008)  
- zamijenjena s: HRN EN 10277:2018

HRN EN 10277-4:2008 en  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke – 4. dio: Čelici za površinsko kaljenje (EN 10277-4:2008)  
Bright steel products – Technical delivery conditions – Part 4: Case hardening steels (EN 10277-4:2008)  
- zamijenjena s: HRN EN 10277:2018

HRN EN 10277-5:2008 en  
Svijetli čelični proizvodi – Tehnički uvjeti isporuke – 5. dio: Čelici za poboljšavanje (EN 10277-5:2008)  
Bright steel products – Technical delivery conditions – Part 5: Steels for quenching and tempering (EN 10277-5:2008)  
- zamijenjena s: HRN EN 10277:2018

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

HRN EN ISO 16151:2008 en  
Korozija metala i legura – Ubrzana ciklička ispitivanja uz izlaganje prskanju zakiseljenom slanom otopinom, “suhi” i “vlažni” uvjeti (ISO 16151:2005; EN ISO 16151:2008)  
Corrosion of metals and alloys – Accelerated cyclic tests with exposure to acidified salt spray, “dry” and “wet” conditions (ISO 16151:2005; EN ISO 16151:2008)  
- zamijenjena s: HRN EN ISO 16151:2018

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

HRN ISO 10154:2005 en  
Tankostijeni metalni spremnici – Trodijelne aerosolne doze od bijelog lima suženog promjera tijela – Dimenzije gornjeg dijela (ISO 10154:1991)  
Light gauge metal containers – Three-piece necked-in tinplate aerosol cans – Dimensions of the top end (ISO 10154:1991)  
- bez zamjene

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

HRN EN 1793-2:2013 en  
Barijere za zaštitu od buke s cesta – Metoda određivanja akustičkih svojstava – 2. dio: Značajke uzdušne zvučne izolacije proizvoda (EN 1793-2:2012)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 2: Intrinsic characteristics of airborne sound insulation under diffuse sound field conditions (EN 1793-2:2012)  
- zamijenjena s: HRN EN 1793-2:2018

HRN EN 1793-6:2013 en  
Barijere za zaštitu od buke s cesta – Ispitne metode za određivanje akustičkih svojstava – 6. dio: Osnovne značajke – In situ vrijednosti izolacije od vanjske buke u uvjetima neposrednog zvučnog polja (EN 1793-6:2012)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 6: Intrinsic characteristics – In situ values of airborne sound insulation under direct sound field conditions (EN 1793-6:2012)  
- zamijenjena s: HRN EN 1793-6:2018

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

HRN EN 12830:2007 en  
Termometri s uređajem za zapisivanje, za prijevoz, skladištenje i distribuciju ohlađene, smrznute, duboko/brzo smrznute hrane i sladoleda – Ispitivanja, izvedba, prikladnost (EN 12830:1999)  
Temperature recorders for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream – Tests, performance, suitability (EN 12830:1999)  
- zamijenjena s: HRN EN 12830:2018

## **HZN/TO 521, Usluge održavanja**

HRN EN 15221-2:2007 en  
Upravljanje objektima i sustavima podrške – 2. dio: Smjernice za pripremu ugovora za uslugu upravljanje objektima i sustavima podrške (EN 15221-2:2006)  
Facility Management – Part 2: Guidance on how to prepare Facility Management agreements (EN 15221-2:2006)  
- zamijenjena s: HRN EN ISO 41012:2018

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

HRS CEN ISO/TS 17427:2014 en  
Inteligentni transportni sustavi – Kooperativni sustavi – Uloge i odgovornosti kooperativnih sustava unutar ITS arhitekture(a) utemeljenih na kooperaciji (ISO/TS 17427:2014; CEN ISO/TS 17427:2014)  
Intelligent transport systems – Cooperative systems – Roles and responsibilities in the context of cooperative ITS based on architecture(s) for cooperative systems (ISO/TS 17427:2014; CEN ISO/TS 17427:2014)  
- zamijenjena s: HRN EN ISO 17427-1:2018

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

HRN EN 13589:2008 en  
Bitumen i bitumenska veziva – Određivanje vlačnih svojstava modificiranog bitumena metodom mjerenja sile duktilometrom (EN 13589:2008)  
Bitumen and bituminous binders – Determination of the tensile properties of modified bitumen by the force ductility method (EN 13589:2008)  
- zamijenjena s: HRN EN 13589:2018



## HZN/TO 528, Oprema za željeznice

- HRN EN 14067-6:2011 en  
Željeznički sustav – Aerodinamika – 6. dio: Zahtjevi i postupci ispitivanja za udare bočnog vjetra (EN 14067-6:2010)  
Railway applications – Aerodynamics – Part 6: Requirements and test procedures for cross wind assessment (EN 14067-6:2010)  
- zamijenjena s: HRN EN 14067-6:2018

## HZN/TO 531, Plastika i guma

- HRN EN ISO 3949:2014 en  
Plastična crijeva i crijevni sklopovi – Tekstilom ojačane vrste za hidraulične primjene – Specifikacija (ISO 3949:2009; EN ISO 3949:2014)  
Plastics hoses and hose assemblies – Textile-reinforced types for hydraulic applications – Specification (ISO 3949:2009; EN ISO 3949:2014)  
- zamijenjena s: HRN EN ISO 3949:2018
- HRN EN 13765:2015 en  
Plastomerna višeslojna neumrežena crijeva i crijevni pribori za prijenos ugljikovodika, otapala i kemikalija – Specifikacija (EN 13765:2010+A1:2015)  
Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals – Specification (EN 13765:2010+A1:2015)  
- zamijenjena s: HRN EN 13765:2018
- HRN EN ISO 15103-2:2008 en  
Plastika – Poli(fenil-eterski) (PPE) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 15103-2:2007; EN ISO 15103-2:2007)  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 15103-2:2007; EN ISO 15103-2:2007)  
- zamijenjena s: HRN EN ISO 20557-2:2018
- HRN EN 15860:2010 en  
Plastika – Plastomerni poluproizvodi za strojnu obradu – Zahtjevi i metode ispitivanja (EN 15860:2010)  
Plastics – Thermoplastic semi-finished products for machining – Requirements and test methods (EN 15860:2010)  
- zamijenjena s: HRN EN 15860:2018
- HRN EN ISO 28941-1:2009 en  
Plastika – Poli(fenilen-eterski) (PPE) materijali za prešanje i ekstrudiranje – 1. dio: Sustav za označavanje i osnova za specifikacije (ISO 28941-1:2008; EN ISO 28941-1:2008)  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 28941-1:2008; EN ISO 28941-1:2008)  
- zamijenjena s: HRN EN ISO 20557-1:2018

## HZN/TO 533, Kolničke konstrukcije

- HRN EN 12697-12:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 12. dio: Određivanje osjetljivosti asfaltnih uzoraka na vodu (EN 12697-12:2008)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 12: Determination of the water sensitivity of bituminous specimens (EN 12697-12:2008)  
- zamijenjena s: HRN EN 12697-12:2018
- HRN EN 12697-24:2012 en  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 24. dio: Otpornost na zamor (EN 12697-24:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 24: Resistance to fatigue (EN 12697-24:2012)  
- zamijenjena s: HRN EN 12697-24:2018
- HRN EN 12697-26:2012 en  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 26. dio: Krutost (EN 12697-26:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 26: Stiffness (EN 12697-26:2012)  
- zamijenjena s: HRN EN 12697-26:2018
- HRN EN 13285:2010 en  
Nevezane mješavine – Specifikacije (EN 13285:2010)  
Unbound mixtures – Specifications (EN 13285:2010)  
- zamijenjena s: HRN EN 13285:2018

- HRN EN 13880-13:2004 en  
Vruće brtvene mase – 13. dio: Ispitna metoda za određivanje postupnog rastezanja (ispitivanje prijanjanja) (EN 13880-13:2003)  
Hot applied joint sealants – Part 13: Test method for the determination of the discontinuous extension (adherence test) (EN 13880-13:2003)  
- zamijenjena s: HRN EN 13880-13:2018

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

- HRN EN 1279-1:2005 en  
Staklo u graditeljstvu – Izolacijsko staklo – 1. dio: Opća načela, dopuštena odstupanja izmjera i pravila za opisivanje sustava (EN 1279-1:2004)  
Glass in building – Insulating glass units – Part 1: Generalities, dimensional tolerances and rules for the system description (EN 1279-1:2004)  
- zamijenjena s: HRN EN 1279-1:2018
- HRN EN 1279-1:2005/Ispr.1:2008 en  
Staklo u graditeljstvu – Izolacijsko staklo – 1. dio: Opća načela, dopuštena odstupanja izmjera i pravila za opisivanje sustava (EN 1279-1:2004/AC:2006)  
Glass in building – Insulating glass units – Part 1: Generalities, dimensional tolerances and rules for the system description (EN 1279-1:2004/AC:2006)  
- zamijenjena s: HRN EN 1279-1:2018
- HRN EN 1279-2:2005 en  
Staklo u graditeljstvu – Izolacijsko staklo – 2. dio: Metoda dugotrajnog ispitivanja i zahtjevi za prodiranje vlage (EN 1279-2:2002)  
Glass in building – Insulating glass units – Part 2: Long term test method and requirements for moisture penetration (EN 1279-2:2002)  
- zamijenjena s: HRN EN 1279-2:2018
- HRN EN 1279-3:2005 en  
Staklo u graditeljstvu – Izolacijsko staklo – 3. dio: Metoda dugotrajnog ispitivanja i zahtjevi za propuštanje plina te dopuštena odstupanja koncentracije plina (EN 1279-3:2002)  
Glass in building – Insulating glass units – Part 3: Long term test method and requirements for gas leakage rate and for gas concentration tolerances (EN 1279-3:2002)  
- zamijenjena s: HRN EN 1279-3:2018
- HRN EN 1279-4:2005 en  
Staklo u graditeljstvu – Izolacijsko staklo – 4. dio: Ispitne metode za fizikalna svojstva rubnih brtva (EN 1279-4:2002)  
Glass in building – Insulating glass units – Part 4: Methods of test for the physical attributes of edge seals (EN 1279-4:2002)  
- zamijenjena s: HRN EN 1279-4:2018
- HRN EN 1279-5:2010 en  
Staklo u graditeljstvu – Izolacijsko staklo – 5. dio: Vrednovanje sukladnosti (EN 1279-5:2005+A2:2010)  
Glass in building – Insulating glass units – Part 5: Evaluation of conformity (EN 1279-5:2005+A2:2010)  
- zamijenjena s: HRN EN 1279-5:2018
- HRN EN 1279-6:2005 en  
Staklo u graditeljstvu – Izolacijsko staklo – 6. dio: Tvornička kontrola proizvodnje i periodična ispitivanja (EN 1279-6:2002)  
Glass in building – Insulating glass units – Part 6: Factory production control and periodic tests (EN 1279-6:2002)  
- zamijenjena s: HRN EN 1279-6:2018

## HZN/TO 539, Kemijski dezinficijensi i antiseptici

- HRN EN 13704:2003 en  
Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu sporidne djelotvornosti kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u područjima povezanim s hranom, u industriji, domaćinstvu i ustanovama – Metoda ispitivanja i zahtjevi (faza 2, korak 1) (EN 13704:2002)  
Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas – Test method and requirements (phase 2, step 1) (EN 13704:2002)  
- zamijenjena s: HRN EN 13704:2018

## HZN/TO 549, Svjetlo i rasvjeta

HRN EN 12665:2012 en  
Svjetlo i rasvjeta – Osnovni nazivi i kriteriji za specificiranje zahtjeva rasvjete (EN 12665:2011)  
Light and lighting – Basic terms and criteria for specifying lighting requirements (EN 12665:2011)  
- zamijenjena s: HRN EN 12665:2018

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

HRN EN ISO 15952:2011 en  
Kvaliteta tla – Učinci onečišćivača na mlade zemljišne puževe (Helicidae) – Određivanje učinaka onečišćenosti tla na razvoj (ISO 15952:2006; EN ISO 15952:2011)  
Soil quality – Effects of pollutants on juvenile land snails (Helicidae) – Determination of the effects on growth by soil contamination (ISO 15952:2006; EN ISO 15952:2011)  
- zamijenjena s: HRN EN ISO 15952:2018

HRN EN ISO 23611-1:2011 en  
Kvaliteta tla – Uzorkovanje beskraljčnjaka u tlu – 1. dio: Ručno razvrstavanje i ekstrakcija gujavica formalinom (ISO 23611-1:2006; EN ISO 23611-1:2011)  
Soil quality – Sampling of soil invertebrates – Part 1: Hand-sorting and formalin extraction of earthworms (ISO 23611-1:2006; EN ISO 23611-1:2011)  
- zamijenjena s: HRN EN ISO 23611-1:2018

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

HRN EN 60770-3:2008 en  
Prijenosnici za upotrebu u sustavima za industrijsko vođenje procesa – 3. dio: Metoda za ocjenu djelovanja inteligentnih prijenosnika (IEC 60770-3:2006; EN 60770-3:2006)  
Transmitters for use in industrial-process control systems – Part 3: Methods for performance evaluation of intelligent transmitters (IEC 60770-3:2006; EN 60770-3:2006)  
- zamijenjena s: HRN EN 60770-3:2014

HRI CLC/TR 61158-1:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – 1. dio: Pregled i upute za niz norma IEC 61158 i IEC 61784 (IEC/TR 61158-1:2010; CLC/TR 61158-1:2010)  
Industrial communication networks – Fieldbus specifications – Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series (IEC/TR 61158-1:2010; CLC/TR 61158-1:2010)  
- zamijenjena s: HRN EN 61158-1:2015

HRN EN 61158-2:2011 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – 2. dio: Specifikacija fizičkog sloja OSI referentnog modela i definicija usluge (IEC 61158-2:2010; EN 61158-2:2010)  
Industrial communication networks – Fieldbus specifications – Part 2: Physical layer specification and service definition (IEC 61158-2:2010; EN 61158-2:2010)  
- zamijenjena s: HRN EN 61158-2:2015

HRN EN 61158-3-1:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-1: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 1 (IEC 61158-3-1:2007; EN 61158-3-1:2008)  
Industrial communication networks – Fieldbus specifications – Part 3-1: Data-link layer service definition – Type 1 elements (IEC 61158-3-1:2007; EN 61158-3-1:2008)  
- zamijenjena s: HRN EN 61158-3-1:2015

HRN EN 61158-3-12:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-12: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-3-12:2010; EN 61158-3-12:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements (IEC 61158-3-12:2010; EN 61158-3-12:2012)  
- zamijenjena s: HRN EN 61158-3-12:2015

HRN EN 61158-3-13:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-13: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 13 (IEC 61158-3-13:2007; EN 61158-3-13:2008)  
Industrial communication networks – Fieldbus specifications – Part 3-13: Data-link layer service definition – Type 13 elements (IEC 61158-3-13:2007; EN 61158-3-13:2008)  
- zamijenjena s: HRN EN 61158-3-13:2015

HRN EN 61158-3-14:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-14: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 14 (IEC 61158-3-14:2010; EN 61158-3-14:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-14: Data-link layer service definition – Type 14 elements (IEC 61158-3-14:2010; EN 61158-3-14:2012)  
- zamijenjena s: HRN EN 61158-3-14:2015

HRN EN 61158-3-19:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-19: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-3-19:2010; EN 61158-3-19:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements (IEC 61158-3-19:2010; EN 61158-3-19:2012)  
- zamijenjena s: HRN EN 61158-3-19:2015

HRN EN 61158-3-2:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-2: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-3-2:2007; EN 61158-3-2:2008)  
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements (IEC 61158-3-2:2007; EN 61158-3-2:2008)  
- zamijenjena s: HRN EN 61158-3-2:2015

HRN EN 61158-3-22:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-22: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 22 (IEC 61158-3-22:2010; EN 61158-3-22:2012)  
Industrial communication networks – Fieldbus specifications – Part 3-22: Data-link layer service definition – Type 22 elements (IEC 61158-3-22:2010; EN 61158-3-22:2012)  
- zamijenjena s: HRN EN 61158-3-22:2015

HRN EN 61158-3-3:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-3: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 3 (IEC 61158-3-3:2007; EN 61158-3-3:2008)  
Industrial communication networks – Fieldbus specifications – Part 3-3: Data-link layer service definition – Type 3 elements (IEC 61158-3-3:2007; EN 61158-3-3:2008)  
- zamijenjena s: HRN EN 61158-3-3:2015

HRN EN 61158-3-4:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-4: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 4 (IEC 61158-3-4:2007; EN 61158-3-4:2008)  
Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements (IEC 61158-3-4:2007; EN 61158-3-4:2008)  
- zamijenjena s: HRN EN 61158-3-4:2015

HRN EN 61158-4-11:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-11: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 11 (IEC 61158-4-11:2010; EN 61158-4-11:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-11: Data-link layer protocol specification – Type 11 elements (IEC 61158-4-11:2010; EN 61158-4-11:2012)  
- zamijenjena s: HRN EN 61158-4-11:2015

HRN EN 61158-4-1:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-1: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 1 (IEC 61158-4-1:2007; EN 61158-4-1:2008)  
Industrial communication networks – Fieldbus specifications – Part 4-1: Data-link layer protocol specification – Type 1 elements (IEC 61158-4-1:2007; EN 61158-4-1:2008)  
- zamijenjena s: HRN EN 61158-4-1:2015

- HRN EN 61158-4-13:2008 en  
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- zamijenjena s: HRN EN 61158-4-13:2015
- HRN EN 61158-4-14:2013 en  
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- zamijenjena s: HRN EN 61158-4-14:2015
- HRN EN 61158-4-19:2013 en  
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- zamijenjena s: HRN EN 61158-4-19:2015
- HRN EN 61158-4-2:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-2: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-4-2:2010; EN 61158-4-2:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements (IEC 61158-4-2:2010; EN 61158-4-2:2012)  
- zamijenjena s: HRN EN 61158-4-2:2015
- HRN EN 61158-4-22:2013 en  
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- zamijenjena s: HRN EN 61158-4-22:2015
- HRN EN 61158-4-3:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-3: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 3 (IEC 61158-4-3:2010; EN 61158-4-3:2012)  
Industrial communication networks – Fieldbus specifications – Part 4-3: Data-link layer protocol specification – Type 3 elements (IEC 61158-4-3:2010; EN 61158-4-3:2012)  
- zamijenjena s: HRN EN 61158-4-3:2015
- HRN EN 61158-4-4:2008 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-4: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 4 (IEC 61158-4-4:2007; EN 61158-4-4:2008)  
Industrial communication networks – Fieldbus specifications – Part 4-4: Data-link layer protocol specification – Type 4 elements (IEC 61158-4-4:2007; EN 61158-4-4:2008)  
- zamijenjena s: HRN EN 61158-4-4:2015
- HRN EN 61158-5-10:2013 en  
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- zamijenjena s: HRN EN 61158-5-10:2015
- HRN EN 61158-5-12:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-12: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 12 (IEC 61158-5-12:2010; EN 61158-5-12:2012)  
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- zamijenjena s: HRN EN 61158-5-12:2015
- HRN EN 61158-5-13:2008 en  
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Industrial communication networks – Fieldbus specifications – Part 5-13: Application layer service definition – Type 13 elements (IEC 61158-5-13:2007; EN 61158-5-13:2008)  
- zamijenjena s: HRN EN 61158-5-13:2015
- HRN EN 61158-5-14:2013 en  
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- zamijenjena s: HRN EN 61158-5-14:2015
- HRN EN 61158-5-19:2013 en  
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Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements (IEC 61158-5-19:2010; EN 61158-5-19:2012)  
- zamijenjena s: HRN EN 61158-5-19:2015
- HRN EN 61158-5-20:2013 en  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-20: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 20 (IEC 61158-5-20:2010; EN 61158-5-20:2012)  
Industrial communication networks – Fieldbus specifications – Part 5-20: Application layer service definition – Type 20 elements (IEC 61158-5-20:2010; EN 61158-5-20:2012)  
- zamijenjena s: HRN EN 61158-5-20:2015
- HRN EN 61158-5-2:2013 en  
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- zamijenjena s: HRN EN 61158-5-2:2015
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Industrial communication networks – Fieldbus specifications – Part 5-22: Application layer service definition – Type 22 elements (IEC 61158-5-22:2010; EN 61158-5-22:2012)  
- zamijenjena s: HRN EN 61158-5-22:2015
- HRN EN 61158-5-3:2013 en  
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Industrial communication networks – Fieldbus specifications – Part 5-3: Application layer service definition – Type 3 elements (IEC 61158-5-3:2010; EN 61158-5-3:2012)  
- zamijenjena s: HRN EN 61158-5-3:2015
- HRN EN 61158-5-4:2008 en  
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Industrial communication networks – Fieldbus specifications – Part 5-4: Application layer service definition – Type 4 elements (IEC 61158-5-4:2007; EN 61158-5-4:2008)  
- zamijenjena s: HRN EN 61158-5-4:2015
- HRN EN 61158-5-5:2008 en  
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Industrial communication networks – Fieldbus specifications – Part 5-5: Application layer service definition – Type 5 elements (IEC 61158-5-5:2007; EN 61158-5-5:2008)  
- zamijenjena s: HRN EN 61158-5-5:2015

- HRN EN 61158-5-9:2008 en  
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Industrial communication networks – Fieldbus specifications – Part 5-9: Application layer service definition – Type 9 elements (IEC 61158-5-9:2007; EN 61158-5-9:2008)  
- zamijenjena s: HRN EN 61158-5-9:2015
- HRN EN 61158-6-10:2013 en  
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Industrial communication networks – Fieldbus specifications – Part 6-10: Application layer protocol specification – Type 10 elements (IEC 61158-6-10:2010; EN 61158-6-10:2012)  
- zamijenjena s: HRN EN 61158-6-10:2015
- HRN EN 61158-6-12:2013 en  
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- zamijenjena s: HRN EN 61158-6-12:2015
- HRN EN 61158-6-13:2008 en  
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- zamijenjena s: HRN EN 61158-6-13:2015
- HRN EN 61158-6-14:2013 en  
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- zamijenjena s: HRN EN 61158-6-14:2015
- HRN EN 61158-6-19:2013 en  
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- zamijenjena s: HRN EN 61158-6-19:2015
- HRN EN 61158-6-20:2013 en  
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- zamijenjena s: HRN EN 61158-6-20:2015
- HRN EN 61158-6-2:2013 en  
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- zamijenjena s: HRN EN 61158-6-2:2015
- HRN EN 61158-6-22:2013 en  
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Industrial communication networks – Fieldbus specifications – Part 6-22: Application layer protocol specification – Type 22 elements (IEC 61158-6-22:2010; EN 61158-6-22:2012)  
- zamijenjena s: HRN EN 61158-6-22:2015
- HRN EN 61158-6-3:2013 en  
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- zamijenjena s: HRN EN 61158-6-3:2015
- HRN EN 61158-6-4:2008 en  
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- zamijenjena s: HRN EN 61158-6-4:2015
- HRN EN 61158-6-5:2008 en  
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- zamijenjena s: HRN EN 61158-6-5:2015
- HRN EN 61158-6-9:2013 en  
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- zamijenjena s: HRN EN 61158-6-9:2015
- HRN EN 61285:2008 en  
Vođenje industrijskog procesa – Sigurnost kućišta analizatora (IEC 61285:2004; EN 61285:2004)  
Industrial-process control – Safety of analyser houses (IEC 61285:2004; EN 61285:2004)  
- zamijenjena s: HRN EN 61285:2015
- HRN EN 61784-1:2011 en  
Industrijske komunikacijske mreže – Profili – 1. dio: Profili industrijske sabirnice (fieldbus) (IEC 61784-1:2010; EN 61784-1:2010)  
Industrial communication networks – Profiles – Part 1: Fieldbus profiles (IEC 61784-1:2010; EN 61784-1:2010)  
- zamijenjena s: HRN EN 61784-1:2015
- HRN EN 61784-2:2011 en  
Industrijske komunikacijske mreže – Profili – 2. dio: Dodatni profili industrijske sabirnice (fieldbus) za mreže u realnom vremenu temeljene na ISO/IEC 8802-3 (IEC 61784-2:2010; EN 61784-2:2010)  
Industrial communication networks – Profiles – Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3 (IEC 61784-2:2010; EN 61784-2:2010)  
- zamijenjena s: HRN EN 61784-2:2015
- HRN EN 61804-3:2012 en  
Funkcijski blokovi (FB) za vođenje procesa – 3. dio: Jezik za opis elektroničkih uređaja (EDDL) (IEC 61804-3:2010; EN 61804-3:2011)  
Function Blocks (FB) for process control – Part 3: Electronic Device Description Language (EDDL) (IEC 61804-3:2010; EN 61804-3:2011)  
- zamijenjena s: HRN EN 61804-3:2015
- HRN EN 62541-3:2011 en  
OPC unified architecture – Part 3: Address Space Model (IEC 62541-3:2010; EN 62541-3:2010)  
- zamijenjena s: HRN EN 62541-3:2015
- HRN EN 62541-4:2012 en  
OPC objedinjena arhitektura – 4. dio: Usluge (IEC 62541-4:2011; EN 62541-4:2011)  
OPC unified architecture – Part 4: Services (IEC 62541-4:2011; EN 62541-4:2011)  
- zamijenjena s: HRN EN 62541-4:2015

HRN EN 62541-5:2012 en  
OPC objedinjena arhitektura – 5. dio: Informacijski model  
(IEC 62541-5:2011; EN 62541-5:2011)  
OPC unified architecture – Part 5: Information model  
(IEC 62541-5:2011; EN 62541-5:2011)  
- zamijenjena s: HRN EN 62541-5:2015

HRN EN 62541-6:2012 en  
OPC unified architecture – Part 6: Mappings (IEC 62541-6:2011;  
EN 62541-6:2011)  
- zamijenjena s: HRN EN 62541-6:2015

HRN EN 62541-7:2013 en  
OPC objedinjena arhitektura – 7. dio: Profili (IEC 62541-7:2012;  
EN 62541-7:2012)  
OPC unified architecture – Part 7: Profiles (IEC 62541-7:2012;  
EN 62541-7:2012)  
- zamijenjena s: HRN EN 62541-7:2015

HRN EN 62541-8:2012 en  
OPC objedinjena arhitektura – 8. dio: Pristup podacima  
(IEC 62541-8:2011; EN 62541-8:2011)  
OPC unified architecture – Part 8: Data Access  
(IEC 62541-8:2011; EN 62541-8:2011)  
- zamijenjena s: HRN EN 62541-8:2015

HRN EN 62541-9:2013 en  
OPC objedinjena arhitektura – 9. dio: Alarmi i stanja  
(IEC 62541-9:2012; EN 62541-9:2012)  
OPC unified architecture – Part 9: Alarms and conditions  
(IEC 62541-9:2012; EN 62541-9:2012)  
- zamijenjena s: HRN EN 62541-9:2015

HRN EN 62541-10:2013 en  
OPC objedinjena arhitektura – 10. dio: Programi  
(IEC 62541-10:2012; EN 62541-10:2012)  
OPC unified architecture – Part 10: Programs  
(IEC 62541-10:2012; EN 62541-10:2012)  
- zamijenjena s: HRN EN 62541-10:2015

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

HRN EN 60730-2-5:2004 en  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2000, preinačena; EN 60730-2-5:2002)  
Automatic electrical controls for household and similar use – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2000, modified; EN 60730-2-5:2002)  
- zamijenjena s: HRN EN 60730-2-5:2015

HRN EN 60730-2-5:2004/A11:2007 en  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (EN 60730-2-5:2002/A11:2005)  
Automatic electrical controls for household and similar use – Part 2-5: Particular requirements for automatic electrical burner control systems (EN 60730-2-5:2002/A11:2005)  
- zamijenjena s: HRN EN 60730-2-5:2015

HRN EN 60730-2-5:2004/A1:2007 en  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2000/am1:2004, MOD; EN 60730-2-5:2002/A1:2004)  
Automatic electrical controls for household and similar use – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2000/am1:2004, MOD; EN 60730-2-5:2002/A1:2004)  
- zamijenjena s: HRN EN 60730-2-5:2015

HRN EN 60730-2-5:2004/A2:2010 en  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2000/am2:2008, MOD; EN 60730-2-5:2002/A2:2010)  
Automatic electrical controls for household and similar use – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2000/am2:2008, MOD; EN 60730-2-5:2002/A2:2010)  
- zamijenjena s: HRN EN 60730-2-5:2015

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

HRN EN 62065:2003 en  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustavi upravljanja putanjom – Radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62065:2002; EN 62065:2002)  
Maritime navigation and radiocommunication equipment and systems – Track control systems – Operational and performance requirements, methods of testing and required test results (IEC 62065:2002; EN 62065:2002)  
- zamijenjena s: HRN EN 62065:2014

HRN EN 62288:2008 en  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Prikaz navigacijskih podataka na brodskim navigacijskim pokazivačima – Opći zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62288:2008; EN 62288:2008)  
Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays – General requirements, methods of testing and required test results (IEC 62288:2008; EN 62288:2008)  
- zamijenjena s: HRN EN 62288:2015

HRN EN 62320-1:2008 en  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav automatske identifikacije (AIS) – 1. dio: Bazine postaje sustava automatske identifikacije (AIS) – Najmanji radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62320-1:2007; EN 62320-1:2007)  
Maritime navigation and radiocommunication equipment and systems – Automatic identification system (AIS) – Part 1: AIS Base Stations – Minimum operational and performance requirements, methods of testing and required test results (IEC 62320-1:2007; EN 62320-1:2007)  
- zamijenjena s: HRN EN 62320-1:2015

HRN EN 62320-1:2008/A1:2010 en  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav automatske identifikacije (AIS) – 1. dio: Bazine postaje sustava automatske identifikacije (AIS) – Najmanji radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62320-1:2007/am1:2008; EN 62320-1:2007/A1:2009)  
Maritime navigation and radiocommunication equipment and systems – Automatic identification system (AIS) – Part 1: AIS Base Stations – Minimum operational and performance requirements, methods of testing and required test results (IEC 62320-1:2007/am1:2008; EN 62320-1:2007/A1:2009)  
- zamijenjena s: HRN EN 62320-1:2015

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

HRN EN 61557-8:2009 en  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1000 V izmjenične struje i 1500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor zaštitnih mjera – 8. dio: Naprave za nadzor izolacije za IT sustave (IEC 61557-8:2007+Corr.:2007; EN 61557-8:2007)  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems (IEC 61557-8:2007+Corr.:2007; EN 61557-8:2007)  
- zamijenjena s: HRN EN 61557-8:2015

HRN EN 61557-9:2009 en  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1000 V izmjenične struje i 1500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor stupnjeva zaštite – 9. dio: Oprema za određivanje mjesta loše izolacije u IT sustavima (IEC 61557-9:2009; EN 61557-9:2009)  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems (IEC 61557-9:2009; EN 61557-9:2009)  
- zamijenjena s: HRN EN 61557-9:2015

## HZN/TO Z1, Informacijska tehnologija

HRS CEN/TS 419241:2014 en  
Sigurnosni zahtjevi za pouzdane sustave za izradu elektroničkog potpisa na strani servera (CEN/TS 419241:2014)  
Security Requirements for Trustworthy Systems Supporting Server Signing (CEN/TS 419241:2014)  
- zamijenjena s: HRN EN 419241-1:2018

## HZN/TU M1, Metalni materijali 1

HRN EN ISO 3923-1:2011 en  
Metalni praškovi – Određivanje prividne gustoće – 1. dio: Metoda lijevanja (ISO 3923-1:2008; EN ISO 3923-1:2010)  
Metallic powders – Determination of apparent density – Part 1: Funnel method (ISO 3923-1:2008; EN ISO 3923-1:2010)  
- zamijenjena s: HRN EN ISO 3923-1:2018

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

HRN EN 1616:2008 en  
Sterilni kateteri za uretru za jednokratnu upotrebu (EN 1616:1997+A1:1999)  
Sterile urethral catheters for single use (EN 1616:1997+A1:1999)  
- zamijenjena s: HRN EN ISO 20696:2018

HRN EN 1617:2008 en  
Sterilni drenažni kateteri i pomoćni pribor za jednokratnu upotrebu (EN 1617:1997)  
Sterile drainage catheters and accessory devices for single use (EN 1617:1997)  
- zamijenjena s: HRN EN ISO 20697:2018

HRN EN ISO 7494-1:2011 en  
Stomatologija – Stomatološke radne jedinice – 1. dio: Opći zahtjevi i metode ispitivanja (ISO 7494-1:2011; EN ISO 7494-1:2011)  
Dentistry – Dental units – Part 1: General requirements and test methods (ISO 7494-1:2011; EN ISO 7494-1:2011)  
- zamijenjena s: HRN EN ISO 7494-1:2018

HRN EN ISO 10477:2005 en  
Stomatologija – Materijali za izradbu krunica i mostova na temelju polimera (ISO 10477:2004; EN ISO 10477:2004)  
Dentistry – Polymer-based crown and bridge materials (ISO 10477:2004; EN ISO 10477:2004)  
- zamijenjena s: HRN EN ISO 10477:2018

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

HRN EN 3264:2011 en  
Nizovi o zrakoplovstvu – Cijevni priključak 8°30' od legure titana – Matice potisne žice (EN 3264:2010)  
Aerospace series – Pipe coupling 8°30' in titanium alloy – Thrust wire nuts (EN 3264:2010)  
- zamijenjena s: HRN EN 3264:2018

HRN EN 3745-505:2008 en  
Nizovi o zrakoplovstvu – Vlakna i kabeli, optički, za zrakoplove – Metode ispitivanja – 505. dio: Zatezna čvrstoća kabela (EN 3745-505:2007)  
Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 505: Cable tensile strength (EN 3745-505:2007)  
- zamijenjena s: HRN EN 3745-505:2018

HRN EN 4641-001:2011 en  
Nizovi o zrakoplovstvu – Kabeli, optički, promjera omotača 125 µm – 001. dio: Tehnička specifikacija (EN 4641-001:2009)  
Aerospace series – Cables, optical, 125 µm diameter cladding – Part 001: Technical specification (EN 4641-001:2009)  
- zamijenjena s: HRN EN 4641-001:2018

HRN EN 9115:2013 en  
Sustav upravljanja kvalitetom – Zahtjevi za zrakoplovstvo, organizacije za svemir i obranu – Isporučiva programska podrška (dodatak na EN 9100) (EN 9115:2013)  
Quality Management Systems – Requirements for Aviation, Space and Defense Organizations – Deliverable Software (Supplement to EN 9100) (EN 9115:2013)  
- zamijenjena s: HRN EN 9115:2018

## 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 T4, Normizacija u telekomunikacijama

### • umjesto

HRN EN 300 743 V1.2.1:2008  
Digitalna **videoradiodifuzija** (DVB) – Sustavi za stavljanje podnaslova (EN 300 743 V1.2.1:2002)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.2.1:2002)

### • treba biti

HRN EN 300 743 V1.2.1:2008  
Digitalna **video radiodifuzija** (DVB) – Sustavi za stavljanje podnaslova (EN 300 743 V1.2.1:2002)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.2.1:2002)

### • umjesto

HRN EN 300 743 V1.5.1:2014  
Digitalna **radijska videodifuzija** (DVB) – Sustavi označavanja podnaslova (EN 300 743 V1.5.1:2014)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.5.1:2014)

### • treba biti

HRN EN 300 743 V1.5.1:2014  
Digitalna **video radiodifuzija** (DVB) – Sustavi označavanja podnaslova (EN 300 743 V1.5.1:2014)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.5.1:2014)

### • umjesto

HRN ETS 300 743 V1:2013  
Digitalna **videoradiodifuzija** (DVB) – Sustavi za stavljanje podnaslova (ETS 300 743 ed.1:1997)  
Digital Video Broadcasting (DVB) – Subtitling systems (ETS 300 743 ed.1:1997)

### • treba biti

HRN ETS 300 743 V1:2013  
Digitalna **video radiodifuzija** (DVB) – Sustavi za stavljanje podnaslova (ETS 300 743 ed.1:1997)  
Digital Video Broadcasting (DVB) – Subtitling systems (ETS 300 743 ed.1:1997)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

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

## HZN/TO T4, Normizacija u telekomunikacijama

HRN EN 300 743 V1.3.1:2009 en pr  
Digitalna video radiodifuzija (DVB) – Sustavi za stavljanje podnaslova (EN 300 743 V1.3.1:2006)  
Digital Video Broadcasting (DVB) – Subtitling systems (EN 300 743 V1.3.1:2006)

## 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

EN ISO 41011:2018  
Facility management – Vocabulary (ISO 41011:2017)

### 01.040.07 Matematika. Prirodne znanosti (Rječnici)

Međunarodna normizacija  
IEC

IEC 60050-511:2018  
International electrotechnical vocabulary – Part 511: Nano-enabled electrotechnical products and systems

### 01.040.11 Tehnologija zdravstvene zaštite (Rječnici)

Međunarodna normizacija  
IEC

IEC 60050-871:2018  
International electrotechnical vocabulary – Part 871: Active assisted living (AAL)

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

Međunarodna normizacija  
ISO

ISO 1891-4:2018  
Fasteners – Vocabulary – Part 4: Control, inspection, delivery, acceptance and quality

### 01.040.25 Proizvodna tehnika (Rječnici)

Međunarodna normizacija  
ISO

ISO 8000-2:2017/Amd 1:2018  
Data quality – Part 2: Vocabulary; Amendment 1

### 01.040.29 Elektrotehnika (Rječnici)

Europska normizacija  
CENELEC

EN 62504:2014/A1:2018  
General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions (IEC 62504:2014/A1:2018)

### 01.040.73 Rudarstvo i rude (Rječnici)

Međunarodna normizacija  
ISO

ISO 19426-1:2018  
Structures for mine shafts – Part 1: Vocabulary

### 01.040.97 Oprema za kućanstvo i gospodarska oprema. Zabava. Sportovi (Rječnici)

Međunarodna normizacija  
IEC

IEC 60050-871:2018  
International electrotechnical vocabulary – Part 871: Active assisted living (AAL)

### 01.100.01 Tehnički crteži općenito

Međunarodna normizacija  
ISO

ISO/TR 23605:2018  
Technical product specification (TPS) – Application guidance – International model for national implementation

### 01.100.25 Crteži u elektrotehnici i elektronici

Međunarodna normizacija  
IEC

IEC 61837-2:2018  
Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 2: Ceramic enclosures

### 01.110 Tehnička dokumentacija o proizvodu

Međunarodna normizacija  
ISO

ISO 81346-12:2018  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 12: Construction works and building services

### 01.120 Normizacija. Opća pravila

Međunarodna normizacija  
IEC

IECEx 01B:2016  
Rules and guidance for the use of the IECEx Logo

### 03.080.10 Industrijske usluge

Europska normizacija  
CEN

EN ISO 41001:2018  
Facility management – Management systems – Requirements with guidance for use (ISO 41001:2018)

EN ISO 41011:2018  
Facility management – Vocabulary (ISO 41011:2017)

### 03.080.30 Usluge za potrošače

Međunarodna normizacija  
ISO

ISO/TR 24514:2018  
Activities relating to drinking water and wastewater services – Examples of the use of performance indicators using ISO 24510, ISO 24511 and ISO 24512 and related methodologies

### 03.100.30 Upravljanje ljudskim resursima

#### Međunarodna normizacija ISO

ISO 5496:2006/Amd 1:2018  
Sensory analysis – Methodology – Initiation and training of assessors in the detection and recognition of odours; Amendment 1

### 03.100.40 Istraživanje i razvoj

#### Međunarodna normizacija ISO

ISO 21511:2018  
Work breakdown structures for project and programme management

### 03.100.70 Sustavi upravljanja

#### Europska normizacija CEN

EN 9100:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Organizations

EN 9110:2018  
Quality Management Systems – Requirements for Aviation Maintenance Organizations

EN 9120:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Distributors

EN ISO 41001:2018  
Facility management – Management systems – Requirements with guidance for use (ISO 41001:2018)

#### Međunarodna normizacija ISO

ISO 21001:2018  
Educational organizations – Management systems for educational organizations – Requirements with guidance for use

### 03.120.10 Upravljanje kvalitetom i osiguravanje kvalitete

#### Europska normizacija CEN

EN 9100:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Organizations

EN 9110:2018  
Quality Management Systems – Requirements for Aviation Maintenance Organizations

EN 9120:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Distributors

EN 9136:2018  
Aerospace series – Root cause analysis and problem solving (9S Methodology)

### 03.120.30 Primjena statističkih metoda

#### Međunarodna normizacija ISO

ISO 39511:2018  
Sequential sampling plans for inspection by variables for percent nonconforming (known standard deviation)

### 03.180 Izobrazba

#### Međunarodna normizacija ISO

ISO 21001:2018  
Educational organizations – Management systems for educational organizations – Requirements with guidance for use

### 03.220.01 Prijevoz općenito

#### Međunarodna normizacija ISO

ISO 21215:2018  
Intelligent transport systems – Localized communications – ITS-M5

ISO 21218:2018  
Intelligent transport systems – Hybrid communications – Access technology support

ISO 24102-6:2018  
Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 6: Path and flow management

### 03.220.20 Cestovni prijevoz

#### Međunarodna normizacija ISO

ISO 17419:2018  
Intelligente Verkehrssysteme – Kooperative Systeme – Global eindeutige Identifikation  
Intelligent transport systems – Cooperative systems – Globally unique identification

ISO 17423:2018  
Intelligent transport systems – Cooperative systems – Application requirements and objectives

ISO 18750:2018  
Intelligent transport systems – Co-operative ITS – Local dynamic map

### 07.120 Nanotehnologije

#### Međunarodna normizacija IEC

IEC 60050-511:2018  
International electrotechnical vocabulary – Part 511: Nano-enabled electrotechnical products and systems

### 11.040.30 Kirurški instrumenti i materijali

#### Europska normizacija CENELEC

EN IEC 60601-2-2:2018  
Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories (IEC 60601-2-2:2017)

### 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

#### Europska normizacija CEN

EN ISO 14607:2018  
Non-active surgical implants – Mammary implants – Particular requirements (ISO 14607:2018)



## **CENELEC**

EN 50527-2-2:2018

Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-2: Specific assessment for workers with cardioverter defibrillators (ICDs)

## **Međunarodna normizacija ISO**

ISO 14242-4:2018

Implants for surgery – Wear of total hip-joint prostheses – Part 4: Testing hip prostheses under variations in component positioning which results in direct edge loading

## **11.040.50 Radiografska oprema**

### **Europska normizacija CENELEC**

EN 60601-2-43:2010/A1:2018

Medical electrical equipment – Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures (IEC 60601-2-43:2010/A1:2017)

## **11.060.10 Stomatološki materijali**

### **Europska normizacija CEN**

EN ISO 6872:2015/A1:2018

Dentistry – Ceramic materials (ISO 6872:2015/Amd 1:2018)

EN ISO 28319:2018

Dentistry – Laser welding and filler materials (ISO 28319:2018)

## **11.060.20 Stomatološka oprema**

### **Europska normizacija CEN**

EN ISO 7488:2018

Dentistry – Mixing machines for dental amalgam (ISO 7488:2018)

EN ISO 20608:2018

Dentistry – Powder jet handpieces and powders (ISO 20608:2018)

### **Međunarodna normizacija ISO**

ISO 10637:2018

Dentistry – Central suction source equipment

## **11.100.20 Biološko vrednovanje medicinskih proizvoda**

### **Europska normizacija CEN**

EN ISO 10993-11:2018

Biological evaluation of medical devices – Part 11: Tests for systemic toxicity (ISO 10993-11:2017)

## **11.180.01 Pomagala za osobe s invaliditetom općenito**

### **Međunarodna normizacija IEC**

IEC 60050-871:2018

International electrotechnical vocabulary – Part 871: Active assisted living (AAL)

## **13.060.20 Voda za piće**

### **Međunarodna normizacija ISO**

ISO/TR 24514:2018

Activities relating to drinking water and wastewater services – Examples of the use of performance indicators using ISO 24510, ISO 24511 and ISO 24512 and related methodologies

## **13.060.30 Kanalizacijske vode**

### **Međunarodna normizacija ISO**

ISO/TR 24514:2018

Activities relating to drinking water and wastewater services – Examples of the use of performance indicators using ISO 24510, ISO 24511 and ISO 24512 and related methodologies

## **13.060.45 Ispitivanje vode općenito (uključujući uzorkovanje)**

### **Međunarodna normizacija ISO**

ISO 5667-3:2018

Water quality – Sampling – Part 3: Preservation and handling of water samples

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

### **Međunarodna normizacija ISO**

ISO 20950-1:2018

Water quality – Determination of available weak and dissociable (WAD) cyanide – Part 1: Method using ligand exchange, flow injection analysis (FIA), gas-diffusion and amperometric detection

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

### **Međunarodna normizacija ISO**

ISO 23611-1:2018

Soil quality – Sampling of soil invertebrates – Part 1: Hand-sorting and extraction of earthworms

## **13.080.10 Kemijske značajke tla**

### **Europska normizacija CEN**

EN ISO 11260:2018

Soil quality – Determination of effective cation exchange capacity and base saturation level using barium chloride solution (ISO 11260:2018)

EN ISO 14254:2018

Soil quality – Determination of exchangeable acidity using barium chloride solution as extractant (ISO 14254:2018)

### **Međunarodna normizacija ISO**

ISO 11260:2018

Soil quality – Determination of effective cation exchange capacity and base saturation level using barium chloride solution

### 13.080.30 Biološka svojstva tla

Međunarodna normizacija  
ISO

ISO 23611-1:2018  
Soil quality – Sampling of soil invertebrates – Part 1: Hand-sorting and extraction of earthworms

### 13.180 Ergonomija

Europska normizacija  
CEN

EN ISO 9241-11:2018  
Ergonomics of human-system interaction – Part 11: Usability: Definitions and concepts (ISO 9241-11:2018)

### 13.220.20 Zaštita od požara

Međunarodna normizacija  
ISO

ISO 7240-5:2018  
Fire detection and fire alarm systems – Part 5: Point type heat detectors

ISO 7240-7:2018  
Fire detection and alarm systems – Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization

ISO 7240-27:2018  
Fire detection and alarm systems – Part 27: Point type fire detectors using a smoke sensor in combination with a carbon monoxide sensor and, optionally, one or more heat sensors

### 13.220.50 Vatrootpornost građevnih materijala i elemenata

Međunarodna normizacija  
ISO

ISO 1716:2018  
Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value)

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

Međunarodna normizacija  
IEC

IEC 61482-2:2018  
Live working – Protective clothing against the thermal hazards of an electric arc – Part 2: Requirements

### 13.340.10 Zaštitna odjeća

Međunarodna normizacija  
ISO

ISO 18640-2:2018  
Protective clothing for firefighters – Physiological impact – Part 2: Determination of physiological heat load caused by protective clothing worn by firefighters

IEC

IEC 61482-2:2018  
Live working – Protective clothing against the thermal hazards of an electric arc – Part 2: Requirements

### 17.040.40 Geometrijska specifikacija proizvoda (GPS)

Međunarodna normizacija  
ISO

ISO 5458:2018  
Geometrical product specifications (GPS) – Geometrical tolerancing – Pattern and combined geometrical specification

### 17.140.30 Buka koju proizvode prijevozna sredstva

Međunarodna normizacija  
IEC

IEC 61265:2018  
Electroacoustics – Instruments for measurement of aircraft noise – Performance requirements for systems to measure sound pressure levels in noise certification of aircraft

### 17.220.01 Elektricitet. Magnetizam. Opći aspekti

Međunarodna normizacija  
IEC

IEC 60375:2018  
Conventions concerning electric circuits

### 17.220.20 Mjerenje električnih i magnetskih veličina

Europska normizacija  
CENELEC

EN 62053-11:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2) (IEC 62053-11:2003/A1:2016/Cor1:2018)

EN 62053-21:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21:2003/A1:2016/Cor1:2018)

EN 62053-23:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2003/A1:2016/Cor1:2018)

EN 62053-24:2015/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 24: Static meters for reactive energy at fundamental frequency (classes 0,5 S, 1 S and 1) (IEC 62053-24:2014/A1:2016/Cor1:2018)

Međunarodna normizacija  
IEC

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

### 17.240 Mjerenja zračenja

Europska normizacija  
CENELEC

EN 50527-2-2:2018  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-2: Specific assessment for workers with cardioverter defibrillators (ICDs)

## 19.040 Ispitivanje utjecaja okoliša

### Europska normizacija CENELEC

- EN IEC 60068-2-5:2018  
Environmental testing – Part 2-5: Tests – Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering (IEC 60068-2-5:2018)
- EN IEC 60068-3-6:2018/AC:2018  
Environmental testing – Part 3-6: Supporting documentation and guidance – Confirmation of the performance of temperature/humidity chambers (IEC 60068-3-6:2018)
- EN IEC 60721-2-7:2018  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Fauna and flora (IEC 60721-2-7:2018)

## 19.080 Električna i elektronička ispitivanja

### Međunarodna normizacija IEC

- IEC 61010-031 AMD 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; Amendment 1
- IEC 61010-031 Edition 2.1:2018  
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

## 19.120 Analiza veličine čestica. Prosijavanje

### Međunarodna normizacija ISO

- ISO 21501-4:2018  
Determination of particle size distribution – Single particle light interaction methods – Part 4: Light scattering airborne particle counter for clean spaces

## 21.060.01 Spojni elementi općenito

### Međunarodna normizacija ISO

- ISO 1891-4:2018  
Fasteners – Vocabulary – Part 4: Control, inspection, delivery, acceptance and quality

## 23.020.35 Plinske boce

### Međunarodna normizacija ISO

- ISO 18119:2018  
Gas cylinders – Seamless steel and seamless aluminium-alloy gas cylinders and tubes – Periodic inspection and testing

## 23.040.20 Plastične cijevi

### Europska normizacija CEN

- EN ISO 21225-1:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 1: Replacement on the line by pipe bursting and pipe extraction (ISO 21225-1:2018)
- EN ISO 21225-2:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 2: Replacement off the line by horizontal directional drilling and impact muling (ISO 21225-2:2018)

### Međunarodna normizacija ISO

- ISO 10467:2018  
Plastics piping systems for pressure and non-pressure drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin
- ISO 10468:2018  
Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the ring creep properties under wet or dry conditions
- ISO 10471:2018  
Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions

## 23.040.45 Plastične spojnice

### Europska normizacija CEN

- EN ISO 21225-1:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 1: Replacement on the line by pipe bursting and pipe extraction (ISO 21225-1:2018)
- EN ISO 21225-2:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 2: Replacement off the line by horizontal directional drilling and impact muling (ISO 21225-2:2018)

## 23.100.60 Filtri, brtve i onečišćenje fluida

### Međunarodna normizacija ISO

- ISO 11943:2018  
Hydraulic fluid power – Online automatic particle-counting systems for liquids – Methods of calibration and validation

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

### Međunarodna normizacija ISO

- ISO 8000-2:2017/Amd 1:2018  
Data quality – Part 2: Vocabulary; Amendment 1

## 25.080.01 Alatni strojevi općenito

### Međunarodna normizacija ISO

- ISO/TR 230-11:2018  
Test code for machine tools – Part 11: Measuring instruments suitable for machine tool geometry tests

## 25.140.30 Ručno pokretani alati

### Međunarodna normizacija ISO

- ISO 3315:2018  
Assembly tools for screws and nuts – Driving parts for hand-operated square drive socket wrenches – Dimensions and tests
- ISO 3316:2018  
Assembly tools for screws and nuts – Attachments for hand-operated square drive socket wrenches – Dimensions and tests

## 25.140.99 Ostali ručni alati

### Europska normizacija CEN

- EN 15895:2011+A1:2018  
Cartridge operated hand-held tools – Safety requirements  
– Fixing and hard marking tools

## 27.010 Tehnika prijenosa energije i topline općenito

### Europska normizacija CENELEC

- EN IEC 62325-301:2018  
Framework for energy market communications – Part 301:  
Common information model (CIM) extensions for markets  
(IEC 62325-301:2018)

### Međunarodna normizacija IEC

- IEC 62325-451-6:2018  
Framework for energy market communications – Part 451-6:  
Publication of information on market, contextual and assembly  
models for European-style markets

## 27.120.10 Reaktorska tehnika

### Međunarodna normizacija IEC

- IEC 60772:2018  
Nuclear power plants – Instrumentation systems important  
to safety – Electrical penetration assemblies in containment  
structures

## 27.120.20 Nuklearne elektrane. Sigurnost

### Međunarodna normizacija IEC

- IEC 60744:2018  
Nuclear power plants – Instrumentation and control systems  
important to safety – Safety logic assemblies used in systems  
performing category A functions: Characteristics and test  
methods
- IEC 62808:2015/Amd 1:2018  
Nuclear power plants – Instrumentation and control systems  
important to safety – Design and qualification of isolation  
devices; Amendment 1
- IEC 62808 Edition 1.1:2018  
Nuclear power plants – Instrumentation and control systems  
important to safety – Design and qualification of isolation  
devices
- IEC 62887:2018  
Nuclear power plants – Instrumentation systems important  
to safety – Pressure transmitters: Characteristics and test  
methods
- IEC 62988:2018  
Nuclear power plants – Instrumentation and control systems  
important to safety – Selection and use of wireless devices

## 29.030 Magnetni materijali

### Međunarodna normizacija IEC

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

## 29.040.20 Izolacijski plinovi

### Međunarodna normizacija IEC

- IEC 60376:2018  
Specification of technical grade sulphur hexafluoride (SF<sub>6</sub>)  
and complementary gases to be used in its mixtures for use  
in electrical equipment

## 29.080.01 Električna izolacija općenito

### Europska normizacija CENELEC

- EN IEC 60071-2:2018  
Insulation co-ordination – Part 2: Application guidelines  
(IEC 60071-2:2018)

## 29.080.10 Izolatori

### Međunarodna normizacija IEC

- IEC 61466-2:1998/Amd 2:2018  
Composite string insulator units for overhead lines with a  
nominal voltage greater than 1000 V – Part 2: Dimensional  
and electrical characteristics; Amendment 2
- IEC 61466-2 Edition 1.2:2018  
Composite string insulator units for overhead lines with a  
nominal voltage greater than 1000 V – Part 2: Dimensional  
and electrical characteristics

## 29.080.20 Provodni izolatori

### Međunarodna normizacija IEC

- IEC 60137:2017/Corrigendum 1:2018  
Insulated bushings for alternating voltages above 1000 V;  
Corrigendum 1

## 29.100.10 Magnetski sastavni dijelovi

### Europska normizacija CENELEC

- EN IEC 63093-7:2018  
Ferrite cores – Guidelines on dimensions and the limits of  
surface irregularities – Part 7: EER-cores (IEC 63093-7:2018)

## 29.100.20 Električki i elektromehanički sastavni dijelovi

### Međunarodna normizacija IEC

- IEC 60276:2018  
Carbon brushes, brush holders, commutators and slip-rings  
– Definitions and nomenclature

## 29.120.10 Zaštitne cijevi za električne potrebe

### Europska normizacija CENELEC

- EN 50642:2018  
Cable management systems – Test method for content of  
halogens

## 29.120.20 Naprave za povezivanje

### Europska normizacija CENELEC

EN 60570:2003/A1:2018  
Electrical supply track systems for luminaires  
(IEC 60570:2003/A1:2017)

### Međunarodna normizacija IEC

IEC 61238-1-1:2018  
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 ( $U_m = 1,2$  kV) tested on non-insulated conductors

IEC 61238-1-2:2018  
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 ( $U_m = 1,2$  kV) tested on insulated conductors

IEC 61238-1-3:2018  
Compression and mechanical connectors for power cables – Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV ( $U_m = 1,2$  kV) up to 30 kV ( $U_m = 36$  kV) tested on non-insulated conductors

## 29.120.40 Sklopke

### Europska normizacija CENELEC

EN IEC 61058-1:2018  
Switches for appliances – Part 1: General requirements  
(IEC 61058-1:2016)

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

IEC 62271-102:2018  
High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches

## 29.140.10 Kape i držači svjetiljki

### Europska normizacija CENELEC

EN 60061-4:1992/A16:2018  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990/A16:2018)

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Europska normizacija CENELEC

EN 60081:1998/A11:2018  
Double-capped fluorescent lamps – Performance specifications

EN IEC 62386-217:2018  
Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16) (IEC 62386-217:2018)

EN IEC 62386-218:2018  
Digital addressable lighting interface – Part 218: Particular requirements for control gear – Dimming curve selection (device type 17) (IEC 62386-218:2018)

EN IEC 62386-224:2018  
Digital addressable lighting interface – Part 224: Particular requirements for control gear – Non-replaceable light source (device type 23) (IEC 62386-224:2018)

### Međunarodna normizacija IEC

IEC 62386-101 AMD 1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components; Amendment 1

IEC 62386-101 Edition 2.1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components

IEC/TR 63130:2018  
Dimming and hot restrike of metal halide lamps

## 29.140.40 Rasvjetna tijela

### Europska normizacija CENELEC

EN 60570:2003/A1:2018  
Electrical supply track systems for luminaires  
(IEC 60570:2003/A1:2017)

## 29.140.50 Rasvjetni instalacijski sustavi

### Europska normizacija CENELEC

EN 60570:2003/A1:2018  
Electrical supply track systems for luminaires  
(IEC 60570:2003/A1:2017)

## 29.140.99 Ostale norme koje se odnose na svjetiljke

### Europska normizacija CENELEC

EN 62504:2014/A1:2018  
General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions  
(IEC 62504:2014/A1:2018)

### Međunarodna normizacija IEC

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 controlgear

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 62442-3:2018  
Energy performance of lamp controlgear – Part 3: Controlgear for tungsten-halogen lamps and LED light sources – Method of measurement to determine the efficiency of controlgear

## 29.180 Transformatori. Prigušnice

### Europska normizacija CENELEC

EN 60076-3:2013/A1:2018  
Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air (IEC 60076-3:2013/A1:2018)

## 29.220.20 Kiseli sekundarni članci i baterije

### Europska normizacija CENELEC

EN IEC 62485-1:2018  
Safety requirements for secondary batteries and battery installations – Part 1: General safety information (IEC 62485-1:2015)

EN IEC 62485-2:2018  
Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries (IEC 62485-2:2010)

EN IEC 62485-4:2018  
Safety requirements for secondary batteries and battery installations – Part 4: Valve-regulated lead-acid batteries for use in portable appliances (IEC 62485-4:2015)

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

### Europska normizacija CEN

EN ISO/IEC 80079-38/A1:2018  
Explosive atmospheres – Part 38: Equipment and components in explosive atmospheres in underground mines (ISO/IEC 80079-38:2016)

### Međunarodna normizacija IEC

IECEX 01B:2016  
Rules and guidance for the use of the IECEx Logo

IECEX 05A Edition 2.1:2016  
Guidance and Instructions for Applicants to obtain a Certificate of Personnel Competence (CoPC)

## 31.020 Elektronički sastavni dijelovi općenito

### Europska normizacija CENELEC

EN 61760-4:2015/A1:2018  
Surface mounting technology – Part 4: Classification, packaging, labelling and handling of moisture sensitive devices (IEC 61760-4:2015/A1:2018)

## 31.060.50 Aluminijski elektrolitski kondenzatori

### Međunarodna normizacija IEC

IEC 60384-26:2018  
Fixed capacitors for use in electronic equipment – Part 26: Sectional specification – Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte

## 31.080.01 Poluvodičke naprave općenito

### Međunarodna normizacija IEC

IEC 62969-3:2018  
Semiconductor devices – Semiconductor interface for automotive vehicles – Part 3: Shock driven piezoelectric energy harvesting for automotive vehicle sensors

## 31.140 Piezoelektrične naprave

### Europska normizacija CENELEC

EN IEC 62884-3:2018  
Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 3: Frequency aging test methods (IEC 62884-3:2018)

## 31.160 Električni filtri

### Međunarodna normizacija IEC

IEC 60939-3 Corrigendum 2:2018  
Passive filter units for electromagnetic interference suppression – Part 3: Passive filter units for which safety tests are appropriate; Corrigendum 2

## 31.180 Tiskani krugovi i pločice

### Međunarodna normizacija IEC

IEC 62899-302-2:2018  
Printed electronics – Part 302-2: Equipment – Inkjet – Imaging-based measurement of droplet volume

IEC 62899-303-1:2018  
Printed electronics – Part 303-1: Equipment – Roll-to-roll printing – Mechanical dimensions

## 31.240 Mehaničke konstrukcije za elektroničku opremu

### Europska normizacija CENELEC

EN 60191-4:2014/A1:2018  
Mechanical standardization of semiconductor devices – Part 4: Coding system and classification into forms of package outlines for semiconductor device packages (IEC 60191-4:2013/A1:2018)

### Međunarodna normizacija IEC

IEC 61837-2:2018  
Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 2: Ceramic enclosures

IEC 62610-2:2018  
Mechanical structures for electrical and electronic equipment – Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series – Part 2: Method for the determination of forced air cooling

## 31.260 Optoelektronika. Laserska oprema

### Međunarodna normizacija ISO

ISO 17915:2018  
Optics and photonics – Measurement method of semiconductor lasers for sensing

## 33.100.10 Zračenje

### Međunarodna normizacija IEC

IEC 61000-2-2 AMD 2:2018  
Electromagnetic compatibility (EMC) – Part 2-2: Environment – Compatibility levels for lowfrequency conducted disturbances and signalling in public low-voltage power supply systems; Amendment 2

IEC 61000-2-2 Edition 2.2:2018  
Electromagnetic compatibility (EMC) – Part 2-2: Environment  
– Compatibility levels for lowfrequency conducted disturbances  
and signalling in public low-voltage power supply systems

### 33.120.10 Koaksijalni kabeli. Valovodi

#### Međunarodna normizacija IEC

IEC 62153-4-7 AMD 1:2018  
Metallic communication cable test methods – Part 4-7:  
Electromagnetic compatibility (EMC) – Test method for  
measuring of transfer impedance ZT and screening  
attenuation as or coupling attenuation aC of connectors and  
assemblies up to and above 3 GHz – Triaxial tube in tube  
method; Amendment 1

IEC 62153-4-7 Edition 2.1:2018  
Metallic communication cable test methods – Part 4-7:  
Electromagnetic compatibility (EMC) – Test method for  
measuring of transfer impedance ZT and screening  
attenuation as or coupling attenuation aC of connectors and  
assemblies up to and above 3 GHz – Triaxial tube in tube  
method

IEC 62153-4-9:2018  
Metallic communication cable test methods – Part 4-9:  
Electromagnetic compatibility (EMC) – Coupling  
attenuation of screened balanced cables, triaxial  
method

### 33.120.20 Žice i simetrični kabeli

#### Međunarodna normizacija IEC

IEC 62680-1-3:2018  
Universal serial bus interfaces for data and power – Part 1-3:  
Common components – USB Type-CTM Cable and Connector  
Specification

### 33.120.30 RF konektori

#### Međunarodna normizacija IEC

IEC 62680-1-3:2018  
Universal serial bus interfaces for data and power – Part 1-3:  
Common components – USB Type-CTM Cable and Connector  
Specification

### 33.180.10 Svjetlovodna vlakna i kabeli

#### Međunarodna normizacija IEC

IEC 60794-1-31:2018  
Optical fibre cables – Part 1-31: Generic specification – Optical  
cable elements – Optical fibre ribbon

### 33.180.20 Svjetlovodni vezne naprave

#### Međunarodna normizacija IEC

IEC 63032:2018  
Fibre optic interconnecting devices and passive components  
– Fibre optic tuneable bandpass filters – Generic specification

### 33.180.30 Optička pojačala

#### Međunarodna normizacija IEC

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

## 33.200 Daljinsko upravljanje. Daljinsko mjerjenje

#### Europska normizacija CENELEC

EN IEC 61968-3:2018  
Application integration at electric utilities – System interfaces  
for distribution management – Part 3: Interface for network  
operations (IEC 61968-3:2017)

EN IEC 61970-456:2018  
Energy management system application program interface  
(EMS-API) – Part 456: Solved power system state profiles  
(IEC 61970-456:2018)

#### Međunarodna normizacija IEC

IEC 62325-451-6:2018  
Framework for energy market communications – Part 451-6:  
Publication of information on market, contextual and  
assembly models for European-style markets

## 35.020 Informacijska tehnologija (IT) općenito

#### Međunarodna normizacija ISO

ISO/IEC TR 38505-2:2018  
Information technology – Governance of IT – Governance  
of data – Part 2: Implications of ISO/IEC 38505-1 for data  
management

## 35.030 Informatička sigurnost

#### Europska normizacija CENELEC

CEN/TR 419030:2018  
Rationalized structure for electronic signature standardization  
– Best practices for SMEs

CEN/TR 419040:2018  
Rationalized structure for electronic signature standardization  
– Guidelines for citizens

#### Međunarodna normizacija ISO

ISO/IEC 27034-3:2018  
Information technology – Application security – Part 3:  
Application security management process

ISO/IEC 27034-7:2018  
Information technology – Application security – Part 7:  
Assurance prediction framework

#### IEC

IEC 62351-3:2014/AMD 1:2018  
Power systems management and associated information  
exchange – Data and communications security – Part 3:  
Communication network and system security – Profiles  
including TCP/IP; Amendment 1

IEC 62351-3 Edition 1.1:2018  
Power systems management and associated information  
exchange – Data and communications security – Part 3:  
Communication network and system security – Profiles  
including TCP/IP

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

### Međunarodna normizacija ISO

ISO/IEC 13818-1 AMD 1:2018  
Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems – Amendment 1: Ultra-low latency and 4k and higher resolution support for transport of JPEG 2000 video

ISO/IEC 23000-18:2018  
Information technology – Multimedia application formats (MPEG-A) – Part 18: Media linking application format

ISO/IEC 23006-1:2018  
Information technology – Multimedia service platform technologies – Part 1: Architecture

## 35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji

### Međunarodna normizacija ISO

ISO/IEC 22275:2018  
Information technology – Programming languages, their environments, and system software interfaces – ECMAScript® Specification Suite

## 35.100.60 Sloj prikazivanja

### Međunarodna normizacija ISO

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

ISO/IEC 8825-4 Technical Corrigendum 1:2018  
Information technology – ASN.1 encoding rules: XML Encoding Rules (XER); Technical Corrigendum 1

## 35.110 Umrežavanje

### Međunarodna normizacija ISO

ISO/IEC/IEEE 8802-11:2018  
Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 11: Wireless LAN medium access control (MAC) and physical layer (PHY) specifications

## 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

### Europska normizacija CEN

EN ISO 9241-11:2018  
Ergonomics of human-system interaction – Part 11: Usability: Definitions and concepts (ISO 9241-11:2018)

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija IEC

IEC 62680-1-3:2018  
Universal serial bus interfaces for data and power – Part 1-3: Common components – USB Type-CTM Cable and Connector Specification

## 35.240.15 Identifikacijske kartice i pripadajuće naprave

### Međunarodna normizacija ISO

ISO/IEC 7816-15:2016/Amd 1:2018  
Identification cards – Integrated circuit cards – Part 15: Cryptographic information application; Amendment 1

ISO/IEC TR 29196:2018  
Information technology – Guidance for biometric enrolment

## 35.240.50 Primjene informacijske tehnologije u industriji

### Europska normizacija CENELEC

EN IEC 61970-456:2018  
Energy management system application program interface (EMS-API) – Part 456: Solved power system state profiles (IEC 61970-456:2018)

EN IEC 62325-301:2018  
Framework for energy market communications – Part 301: Common information model (CIM) extensions for markets (IEC 62325-301:2018)

### Međunarodna normizacija IEC

IEC 62351-3 AMD 1:2018  
Power systems management and associated information exchange – Data and communications security – Part 3: Communication network and system security – Profiles including TCP/IP; Amendment 1

IEC 62351-3 Edition 1.1:2018  
Power systems management and associated information exchange – Data and communications security – Part 3: Communication network and system security – Profiles including TCP/IP

## 35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini

### Europska normizacija CENELEC

CLC/TR 50542-1:2018  
Railway applications – Driver's cab train display controller (TDC) – Part 1: General architecture

### Međunarodna normizacija ISO

ISO 17419:2018  
Intelligent transport systems – Cooperative systems – Globally unique identification

ISO 17423:2018  
Intelligent transport systems – Cooperative systems – Application requirements and objectives

ISO 18750:2018  
Intelligent transport systems – Co-operative ITS – Local dynamic map

ISO 21215:2018  
Intelligent transport systems – Localized communications – ITS-M5

ISO 21218:2018  
Intelligent transport systems – Hybrid communications – Access technology support

ISO 24102-6:2018  
Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 6: Path and flow management



## IEC

IEC 61375-2-6:2018  
Electronic railway equipment – Train communication network (TCN) – Part 2-6: On-board to ground communication

### 35.240.70 Primjene informacijske tehnologije u znanosti

#### Međunarodna normizacija

##### ISO

ISO 19101-2:2018  
Geographic information – Reference model – Part 2: Imagery

ISO 19146:2018  
Geographic information – Cross-domain vocabularies

### 35.240.99 Primjene IT-a u ostalim područjima

#### Europska normizacija CENELEC

EN IEC 61968-3:2018  
Application integration at electric utilities – System interfaces for distribution management – Part 3: Interface for network operations (IEC 61968-3:2017)

EN IEC 62386-217:2018  
Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16) (IEC 62386-217:2018)

EN IEC 62386-218:2018  
Digital addressable lighting interface – Part 218: Particular requirements for control gear – Dimming curve selection (device type 17) (IEC 62386-218:2018)

EN IEC 62386-224:2018  
Digital addressable lighting interface – Part 224: Particular requirements for control gear – Non-replaceable light source (device type 23) (IEC 62386-224:2018)

#### Međunarodna normizacija

##### IEC

IEC 62386-101:2014/AMD 1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components; Amendment 1

IEC 62386-101 Edition 2.1:2018  
Digital addressable lighting interface – Part 101: General requirements – System components

### 37.020 Optička oprema

#### Međunarodna normizacija

##### ISO

ISO 19740:2018  
Optics and photonics – Optical materials and components – Test method for homogeneity of infrared optical materials

ISO 19741:2018  
Optics and photonics – Optical materials and components – Test method for striae in infrared optical materials

ISO 19742:2018  
Optics and photonics – Optical materials and components – Test method for bubbles and inclusions in infrared optical materials

### 37.040.20 Fotografski papir, filmovi i kazete

#### Međunarodna normizacija

##### ISO

ISO 18944:2018  
Imaging materials – Reflection colour photographic prints – Test print construction and measurement

### 37.040.25 Radiografski filmovi

#### Europska normizacija

##### CENELEC

EN 60601-2-43:2010/A1:2018  
Medical electrical equipment – Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures (IEC 60601-2-43:2010/A1:2017)

### 43.040.10 Električna i elektronička oprema

#### Međunarodna normizacija

##### ISO

ISO 7638-1:2018  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 1: Connectors for braking systems and running gear of vehicles with 24 V nominal supply voltage

ISO 7638-2:2018  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 2: Connectors for braking systems and running gear of vehicles with 12 V nominal supply voltage

##### IEC

IEC 62969-3:2018  
Semiconductor devices – Semiconductor interface for automotive vehicles – Part 3: Shock driven piezoelectric energy harvesting for automotive vehicle sensors

### 43.040.40 Sustavi kočenja

#### Međunarodna normizacija

##### ISO

ISO 7638-1:2018  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 1: Connectors for braking systems and running gear of vehicles with 24 V nominal supply voltage

ISO 7638-2:2018  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 2: Connectors for braking systems and running gear of vehicles with 12 V nominal supply voltage

### 45.020 Željeznička tehnika općenito

#### Europska normizacija

##### CENELEC

CLC/TR 50542-1:2018  
Railway applications – Driver's cab train display controller (TDC) – Part 1: General architecture

### 45.060.01 Željeznička tračnička vozila općenito

#### Međunarodna normizacija

##### IEC

IEC 62995:2018  
Railway applications – Rolling stock – Rules for installation of cabling

### 47.020.70 Oprema za navigaciju i upravljanje

#### Međunarodna normizacija

##### IEC

IEC 61162-450:2018  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection

IEC 61162-460:2018  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 460: Multiple talkers and multiple listeners – Ethernet interconnection – Safety and security

## **47.060 Plovila za unutrašnji promet**

### **Europska normizacija CEN**

EN ISO 8385:2018  
Ships and marine technology – Dredgers – Classification (ISO 8385:2018)

## **47.080 Mala plovila**

### **Međunarodna normizacija ISO**

ISO 16147:2018  
Small craft – Inboard diesel engines – Engine-mounted fuel, oil and electrical components

## **49.020 Zrakoplovi i svemirska vozila općenito**

### **Europska normizacija CEN**

EN 9100:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Organizations

EN 9110:2018  
Quality Management Systems – Requirements for Aviation Maintenance Organizations

EN 9120:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Distributors

EN 9136:2018  
Aerospace series – Root cause analysis and problem solving (9S Methodology)

### **Međunarodna normizacija IEC**

IEC 61265:2018  
Electroacoustics – Instruments for measurement of aircraft noise – Performance requirements for systems to measure sound pressure levels in noise certification of aircraft

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

### **Europska normizacija CEN**

EN 2234:2018  
Aerospace series – Cable, electrical, fire resistant – Technical specification

## **49.140 Svemirski sustavi i operacije**

### **Međunarodna normizacija ISO**

ISO 10794:2018  
Space systems – Programme management – Material, mechanical parts and processes

## **53.040.20 Sastavni dijelovi za prijenosne trake**

### **Međunarodna normizacija ISO**

ISO 7590:2018  
Steel cord conveyor belts – Methods for the determination of total thickness and cover thickness

## **53.060 Industrijski prijevozni sustavi**

### **Europska normizacija CEN**

EN 16842-1:2018  
Powered industrial trucks – Visibility – Test methods and verification – Part 1: General requirements

EN 16842-2:2018  
Powered industrial trucks – Visibility – Test methods and verification – Part 2: Sit-on counterbalance trucks and rough terrain masted trucks up to and including 10000 kg capacity

## **59.060.01 Tekstilna vlakna općenito**

### **Europska normizacija CEN**

EN ISO 20418-1:2018  
Textiles – Qualitative and quantitative proteomic analysis of some animal hair fibres – Part 1: Peptide detection using LC-ESI-MS with protein reduction (ISO 20418-1:2018)

## **59.080.01 Tekstili općenito**

### **Europska normizacija CEN**

EN ISO 3175-4:2018  
Textiles – Professional care, drycleaning and wetcleaning of fabrics and garments – Part 4: Procedure for testing performance when cleaning and finishing using simulated wetcleaning (ISO 3175-4:2018)

EN ISO 15496:2018  
Textiles – Measurement of water vapour permeability of textiles for the purpose of quality control (ISO 15496:2018)

## **59.080.30 Tekstilni proizvodi**

### **Europska normizacija CEN**

EN ISO 811:2018  
Textiles – Determination of resistance to water penetration – Hydrostatic pressure test (ISO 811:2018)

## **59.100.20 Ugljični materijali**

### **Međunarodna normizacija ISO**

ISO 30012:2016/AMD 1:2018  
Carbon-fibre-reinforced plastics – Determination of the size and aspect ratio of crushed objects; Amendment 1

## **59.140.30 Koža i krzno**

### **Međunarodna normizacija ISO**

ISO 4045:2018  
Leather – Chemical tests – Determination of pH and difference figure

## 65.060.25 Oprema za čuvanje, pripremu i distribuciju gnojiva

### Europska normizacija CEN

EN ISO 4254-8:2018  
Agricultural machinery – Safety – Part 8: Solid fertilizer distributors (ISO 4254-8:2018)

## 65.060.35 Oprema za navodnjavanje i isušivanje

### Međunarodna normizacija ISO

ISO 7714:2018  
Agricultural irrigation equipment – Volumetric valves – General requirements and test methods

## 65.060.50 Oprema za žetvu

### Međunarodna normizacija ISO

ISO 5687:2018  
Equipment for harvesting – Combine harvesters – Determination and designation of grain tank capacity and unloading device performance

## 65.060.70 Oprema za vrtlarstvo

### Europska normizacija CEN

EN ISO 5395-1:2013/A1:2018  
Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 1: Terminology and common tests – Amendment 1: Annex G (Vibration test code – Hand-arm vibration and whole-body vibration) (ISO 5395-1:2013/Amd 1:2017)

## 67.240 Senzorske analize

### Međunarodna normizacija ISO

ISO 5496:2006/Amd 1:2018  
Sensory analysis – Methodology – Initiation and training of assessors in the detection and recognition of odours; Amendment 1

## 71.100.10 Materijali za proizvodnju aluminija

### Međunarodna normizacija ISO

ISO 12985-1:2018  
Carbonaceous materials used in the production of aluminium – Baked anodes and cathode blocks – Part 1: Determination of apparent density using a dimensions method

ISO 12985-2:2018  
Carbonaceous materials used in the production of aluminium – Baked anodes and cathode blocks – Part 2: Determination of apparent density and of open porosity using a hydrostatic method

## 71.100.60 Eterična ulja

### Međunarodna normizacija ISO

ISO 4730:2017/Amd 1:2018  
Essential oil of Melaleuca, terpinen-4-ol type (Tea Tree oil) – Amendment 1: Enantiomeric distribution

## 73.020 Rudarstvo i vađenje kamena

### Međunarodna normizacija ISO

ISO 19426-1:2018  
Structures for mine shafts – Part 1: Vocabulary

ISO 19426-2:2018  
Structures for mine shafts – Part 2: Headframe structures

ISO 19426-3:2018  
Structures for mine shafts – Part 3: Sinking stages

ISO 19426-4:2018  
Structures for mine shafts – Part 4: Conveyances

ISO 19426-5:2018  
Structures for mine shafts – Part 5: Shaft system structures

## 75.180.10 Oprema za iskorištavanje i vađenje

### Europska normizacija CEN

EN ISO 10426-1/AC:2018  
Petroleum and natural gas industries – Cements and materials for well cementing – Part 1: Specification – Technical Corrigendum 2 (ISO 10426-1:2009/Cor 2:2012)

### Međunarodna normizacija ISO

ISO 10855-1:2018  
Offshore containers and associated lifting sets – Part 1: Design, manufacture and marking of offshore containers

ISO 10855-2:2018  
Offshore containers and associated lifting sets – Part 2: Design, manufacture and marking of lifting sets

ISO 10855-3:2018  
Offshore containers and associated lifting sets – Part 3: Periodic inspection, examination and testing

## 77.040.10 Mehaničko ispitivanje metala

### Europska normizacija CEN

EN ISO 6892-2:2018  
Metallic materials – Tensile testing – Part 2: Method of test at elevated temperature (ISO 6892-2:2018)

## 77.060 Korozija metala

### Međunarodna normizacija ISO

ISO 16151:2018  
Corrosion of metals and alloys – Accelerated cyclic test with exposure to acidified salt spray, dry and wet conditions

## 77.080.10 Željezni lijevovi

### Međunarodna normizacija ISO

ISO 1083:2018  
Spheroidal graphite cast irons – Classification

## 77.140.10 Toplinski obradivi čelici

### Međunarodna normizacija ISO

ISO 9443:2018  
Surface quality classes for hot-rolled bars and wire rod

## 77.140.20 Nehrđajući čelici

### Međunarodna normizacija ISO

ISO 9443:2018  
Surface quality classes for hot-rolled bars and wire rod

## 77.140.60 Čelične šipke i žice

### Međunarodna normizacija ISO

ISO 17832:2018  
Non-parallel steel wire and cords for tyre reinforcement

ISO 19203:2018  
Hot-dip galvanized and zinc-aluminium coated high tensile steel wire for bridge cables – Specifications

## 77.160 Metalurgija praha

### Europska normizacija CEN

EN ISO 4490:2018  
Metallic powders – Determination of flow rate by means of a calibrated funnel (Hall flowmeter) (ISO 4490:2018)

### Međunarodna normizacija ISO

ISO 3923-1:2018  
Metallic powders – Determination of apparent density – Part 1: Funnel method

## 83.080.01 Plastika općenito

### Međunarodna normizacija ISO

ISO 2555:2018  
Plastics – Resins in the liquid state or as emulsions or dispersions – Determination of apparent viscosity using a single cylinder type rotational viscometer method

## 83.080.20 Plastomerni materijali

### Međunarodna normizacija ISO

ISO 20557-2:2018  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 2: Preparation of test specimen and determination of properties

ISO 20558-1:2018  
Plastics – Poly(phenylene sulfide) (PPS) moulding and extrusion materials – Part 1: Designation system and basis for specifications

ISO 20558-2:2018  
Plastics – Poly(phenylene sulfide) (PPS) moulding and extrusion materials – Part 2: Preparation of test specimen and determination of properties

## 83.140.10 Filmovi i ploče

### Europska normizacija CEN

CEN/TR 17219:2018  
Plastics – Biodegradable thermoplastic mulch films for use in agriculture and horticulture – Guide for the quantification of alteration of films

## 83.160.01 Gume za vozila općenito

### Međunarodna normizacija ISO

ISO 17832:2018  
Non-parallel steel wire and cords for tyre reinforcement

## 83.180 Adhezivi

### Međunarodna normizacija ISO

ISO 29862:2018  
Self adhesive tapes – Determination of peel adhesion properties

ISO 29863:2018  
Self adhesive tapes – Measurement of static shear adhesion

ISO 29864:2018  
Self adhesive tapes – Measurement of breaking strength and elongation at break

## 91.060.30 Stropovi. Podovi. Stubišta

### Međunarodna normizacija ISO

ISO 16283-2:2018  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 2: Impact sound insulation

## 91.080.40 Betonske konstrukcije

### Međunarodna normizacija ISO

ISO 18407:2018  
Simplified design of prestressed concrete tanks for potable water

## 91.100.01 Građevni materijali općenito

### Međunarodna normizacija ISO

ISO 1716:2018  
Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value)

## 91.100.30 Beton i betonski proizvodi

### Međunarodna normizacija ISO

ISO 17785-2:2018  
Testing methods for pervious concrete – Part 2: Density and void content

## 91.100.60 Materijali za toplinsku i zvučnu izolaciju

### Međunarodna normizacija ISO

ISO 17749:2018  
Thermal insulation products – Sheep wool mat and board – Specification

ISO 20310:2018  
Thermal insulation for building equipment and industrial installations – Aluminosilicate wool products – Specification

## 91.120.20 Akustika u zgradama. Zvučna izolacija

### Europska normizacija CEN

CEN/TR 16961:2018  
Declaration of uncertainties in test reports

### Međunarodna normizacija ISO

ISO 16283-2:2018  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 2: Impact sound insulation

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

EN 62053-11:2003/A1:2017/AC:2018-05  
Electricity metering equipment (a.c.) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2) (IEC 62053-11:2003/A1:2016/COR1:2018)

EN 62053-21:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21:2003/A1:2016/COR1:2018)

EN 62053-22:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 22: Static meters for active energy (classes 0,2 S and 0,5 S) (IEC 62053-22:2003/A1:2016/COR1:2018)

EN 62053-23:2003/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2003/A1:2016/COR1:2018)

EN 62053-24:2015/A1:2017/AC:2018  
Electricity metering equipment (a.c.) – Particular requirements – Part 24: Static meters for reactive energy at fundamental frequency (classes 0,5 S, 1 S and 1) (IEC 62053-24:2014/A1:2016/COR1:2018)

HD 60364-7-704:2018  
Low voltage electrical installations – Part 7-704: Requirements for special installations or locations – Construction and demolition site installations (IEC 60364-7-704:2017, modified)

## 91.140.80 Odvodni sustavi

### Europska normizacija CEN

EN ISO 21225-1:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 1: Replacement on the line by pipe bursting and pipe extraction (ISO 21225-1:2018)

EN ISO 21225-2:2018  
Plastics piping systems for the trenchless replacement of underground pipeline networks – Part 2: Replacement off the line by horizontal directional drilling and impact moling (ISO 21225-2:2018)

### Međunarodna normizacija ISO

ISO 10467:2018  
Plastics piping systems for pressure and non-pressure drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin

## 91.200 Građevinska tehnologija

### Europska normizacija CEN

HD 60364-7-704:2018  
Low voltage electrical installations – Part 7-704: Requirements for special installations or locations – Construction and demolition site installations (IEC 60364-7-704:2017, modified)

## 93.030 Vanjski kanalizacijski sustavi

### Međunarodna normizacija ISO

ISO 10467:2018  
Plastics piping systems for pressure and non-pressure drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin

## 93.040 Mostogradnja

### Međunarodna normizacija ISO

ISO 19203:2018  
Hot-dip galvanized and zinc-aluminium coated high tensile steel wire for bridge cables – Specifications

## 95.040 Vojna tehnika

### Europska normizacija CEN

EN 9120:2018  
Quality Management Systems – Requirements for Aviation, Space and Defence Distributors

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Međunarodna normizacija IEC

IEC 60335-2-6:2014/AMD 1:2018  
Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances; Amendment 1

IEC 60335-2-6 Edition 6.1:2018  
Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances

IEC 60705:2010/AMD 2:2018  
Household microwave ovens – Methods for measuring performance; Amendment 2

IEC 60705 Edition 4.2:2018  
Household microwave ovens – Methods for measuring performance

## 97.040.40 Strojevi za pranje posuđa

### Europska normizacija CENELEC

EN 61770:2009/A11:2018  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets

## **97.060 Praonički uređaji**

**Europska normizacija**  
**CENELEC**

EN 61770:2009/A11:2018  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets

## **97.120 Automatsko upravljanje za kućansku upotrebu**

**Europska normizacija**  
**CENELEC**

EN 50090-3-4:2017/AC:2018  
Home and Building Electronic Systems (HBES) – Part 3-4: Secure Application Layer, Secure Service, Secure configuration and security Resources

**Međunarodna normizacija**  
**IEC**

IEC 60050-871:2018  
International electrotechnical vocabulary – Part 871: Active assisted living (AAL)

## **97.190 Oprema za djecu**

**Europska normizacija**  
**CEN**

CEN/TR 13387-1:2018  
Child care articles – General safety guidelines – Part 1: Safety philosophy and safety assessment

CEN/TR 13387-5:2018  
Child care articles – General safety guidelines – Part 5: Product information