

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

3/2016 lipanj, 2016.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvatanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrte 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 zainteresiranim na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

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

#### **HRN EN ISO 16315:2016 en pr**

Mala plovila – Električni propulzijski sustav (ISO 16315:2016; EN ISO 16315:2016)  
Small craft – Electric propulsion system (ISO 16315:2016; EN ISO 16315:2016)

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

#### **HRN EN 54-31:2016 en pr**

Sustavi za otkrivanje i dojavu požara – 31. dio: Multisenzorski detektori požara – Točkasti detektori s kombinacijom osjetnika dima, ugljikovog monoksida i opcionalno osjetnika topline  
(EN 54-31:2014+A1:2016)

Fire detection and fire alarm systems – Part 31: Multi-sensor fire detectors – Point detectors using a combination of smoke, carbon monoxide and optionally heat sensors (EN 54-31:2014+A1:2016)

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

#### **HRN EN ISO 15118-2:2016 en pr**

Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 2. dio: Zahtjevi za mrežu i protokol primjene (ISO 15118-2:2014; EN ISO 15118-2:2016)  
Road vehicles – Vehicle-to-grid communication Interface – Part 2: Network and application protocol requirements (ISO 15118-2:2014; EN ISO 15118-2:2016)

#### **HRN EN ISO 15118-3:2016 en pr**

Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 3. dio: Zahtjevi za fizički i podatkovni sloj (ISO 15118-3:2015; EN ISO 15118-3:2016)  
Road vehicles – Vehicle to grid Communication interface – Part 3: Physical and data link layer requirements (ISO 15118-3:2015; EN ISO 15118-3:2016)

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

#### **HRN EN ISO 4254-14:2016 en pr**

Poljoprivredna mehanizacija – Sigurnost – 14. dio: Strojevi za omatanje bala (ISO 4254-14:2016; EN ISO 4254-14:2016)  
Agricultural machinery – Safety – Part 14: Bale wrappers (ISO 4254-14:2016; EN ISO 4254-14:2016)

## **HN/T 25, Ljevarstvo**

**HRN EN 10228-1:2016** en pr

Nerazorno ispitivanje čeličnih otkivaka – 1. dio: Ispitivanje magnetskim česticama (EN 10228-1:2016)  
Non-destructive testing of steel forgings – Part 1: Magnetic particle inspection (EN 10228-1:2016)

**HRN EN 10228-2:2016** en pr

Nerazorno ispitivanje čeličnih otkivaka – 2. dio: Ispitivanje penetrantima (EN 10228-2:2016)  
Non-destructive testing of steel forgings – Part 2: Penetrant testing (EN 10228-2:2016)

**HRN EN 10228-3:2016** en pr

Nerazorno ispitivanje čeličnih otkivaka – 3. dio: Ultrazvučno ispitivanje feritnih ili martenzitnih čeličnih otkivaka (EN 10228-3:2016)  
Non-destructive testing of steel forgings – Part 3: Ultrasonic testing of ferritic or martensitic steel forgings (EN 10228-3:2016)

**HRN EN 10228-4:2016** en pr

Nerazorno ispitivanje čeličnih otkivaka – 4. dio: Ultrazvučno ispitivanje austenitnih i austenitno-feritnih nehrđajućih čeličnih otkivaka (EN 10228-4:2016)  
Non-destructive testing of steel forgings – Part 4: Ultrasonic testing of austenitic and austenitic-ferritic stainless steel forgings (EN 10228-4:2016)

## **HN/T 28, Naftni proizvodi i maziva**

**HRI CEN/TR 16884:2016** en pr

Goriva za motorna vozila – Dizelsko gorivo – Ispitivanje operabilnosti u hladnim uvjetima i korelacija s ponašanjem goriva (CEN/TR 16884:2016)  
Automotive fuels – Diesel fuel – Cold operability testing and fuel performance correlation (CEN/TR 16884:2016)

**HRN EN ISO 22854:2016** en pr

Tekući naftni proizvodi – Određivanje vrste ugljikovodika i oksigenata u benzinu i etanolu (E85) kao gorivu za motorna vozila – Metoda višedimenzionalne plinske kromatografije (ISO 22854:2016; EN ISO 22854:2016)  
Liquid petroleum products – Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel – Multidimensional gas chromatography method (ISO 22854:2016; EN ISO 22854:2016)

## **HN/T 34/PO 10, Poljoprivredni i prehrambeni proizvodi; Senzorske analize**

**HRN EN ISO 13299:2016** en pr

Senzorske analize – Metodologija – Opće upute za utvrđivanje senzorskog profila (ISO 13299:2016; EN ISO 13299:2016)  
Sensory analysis – Methodology – General guidance for establishing a sensory profile (ISO 13299:2016; EN ISO 13299:2016)

**HRN EN 16889:2016** en pr

Higijena hrane – Proizvodnja i točenje toplih napitaka iz aparata za tople napitke – Higijenski zahtjevi, ispitivanje migracije (EN 16889:2016)  
Food hygiene – Production and dispense of hot beverages from hot beverage appliances – Hygiene requirements, migration test (EN 16889:2016)

## **HN/T 35, Boje i lakovi**

**HRN EN ISO 4624:2016** en pr

Boje i lakovi – Ispitivanje prionljivosti vlačnom metodom (ISO 4624:2016; EN ISO 4624:2016)  
Paints and varnishes – Pull-off test for adhesion (ISO 4624:2016; EN ISO 4624:2016)

**HRN EN ISO 7784-1:2016 en pr**

Boje i lakovi – Određivanje otpornosti na habanje – 1. dio: Metoda s kotačima pokrivenim abrazivnim papirom i rotirajućim ispitnim uzorkom (ISO 7784-1:2016; EN ISO 7784-1:2016)  
Paints and varnishes – Determination of resistance to abrasion – Part 1: Method with abrasive-paper covered wheels and rotating test specimen (ISO 7784-1:2016; EN ISO 7784-1:2016)

**HRN EN ISO 7784-2:2016 en pr**

Boje i lakovi – Određivanje otpornosti na habanje – 2. dio: Metoda s abrazivnim gumenim kotačima i rotirajućim ispitnim uzorkom (ISO 7784-2:2016; EN ISO 7784-2:2016)  
Paints and varnishes – Determination of resistance to abrasion – Part 2: Method with abrasive rubber wheels and rotating test specimen (ISO 7784-2:2016; EN ISO 7784-2:2016)

**HRN EN ISO 7784-3:2016 en pr**

Boje i lakovi – Određivanje otpornosti na habanje – 3. dio: Metoda s kotačem pokrivenim abrazivnim papirom i linearnim naizmjeničnim gibanjem ispitnog uzorka (ISO 7784-3:2016; EN ISO 7784-3:2016)  
Paints and varnishes – Determination of resistance to abrasion – Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen (ISO 7784-3:2016; EN ISO 7784-3:2016)

**HRN EN ISO 16482-1:2016 en pr**

Veziva za boje i lakove – Određivanje količine nehlapljivih tvari vodenih disperzija smole – 1. dio:  
Metoda sušenja (ISO 16482-1:2013; EN ISO 16482-1:2016)  
Binders for paints and varnishes – Determination of the non-volatile-matter content of aqueous rosin-resin dispersions – Part 1: Oven method (ISO 16482-1:2013; EN ISO 16482-1:2016)

**HRN EN ISO 16482-2:2016 en pr**

Veziva za boje i lakove – Određivanje količine nehlapljivih tvari vodenih disperzija smole – 2. dio:  
Mikrovalna metoda (ISO 16482-2:2013; EN ISO 16482-2:2016)  
Binders for paints and varnishes – Determination of the non-volatile-matter content of aqueous rosin-resin dispersions – Part 2: Microwave method (ISO 16482-2:2013; EN ISO 16482-2:2016)

**HRN EN ISO 16773-1:2016 en pr**

Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 1. dio:  
Nazivi i definicije (ISO 16773-1:2016; EN ISO 16773-1:2016)  
Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 1: Terms and definitions (ISO 16773-1:2016; EN ISO 16773-1:2016)

**HRN EN ISO 16773-2:2016 en pr**

Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 2. dio:  
Prikupljanje podataka (ISO 16773-2:2016; EN ISO 16773-2:2016)  
Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 2: Collection of data (ISO 16773-2:2016; EN ISO 16773-2:2016)

**HRN EN ISO 16773-3:2016 en pr**

Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 3. dio:  
Obrađivanje i analiza podataka iz slijepih ćelija (ISO 16773-3:2016; EN ISO 16773-3:2016)  
Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 3: Processing and analysis of data from dummy cells (ISO 16773-3:2016; EN ISO 16773-3:2016)

**HZN/TO 43, Akustika****HRN ISO 1996-1:2016 en pr**

Akustika – Opis, mjerjenje i ocjenjivanje buke okoliša – 1. dio: Osnovne veličine i postupci ocjenjivanja (ISO 1996-1:2016)  
Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures (ISO 1996-1:2016)

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

### **HRN EN ISO 15614-8:2016 en pr**

Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 8. dio: Zavarivanje cijevi na cijevnu stijenu (ISO 15614-8:2016; EN ISO 15614-8:2016)  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 8: Welding of tubes to tube-plate joints (ISO 15614-8:2016; EN ISO 15614-8:2016)

### **HRN EN ISO 17916:2016 en pr**

Sigurnost strojeva za toplinsko rezanje (ISO 17916:2016; EN ISO 17916:2016)  
Safety of thermal cutting machines (ISO 17916:2016; EN ISO 17916:2016)

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

### **HRN EN 1504-8:2016 en pr**

Proizvodi i sustavi za zaštitu i popravak betonskih konstrukcija – Definicije, zahtjevi, kontrola kvalitete te ocjenjivanje i provjera stalnosti svojstava (AVCP) – 8. dio: Kontrola kvalitete i ocjenjivanje i provjera stalnosti svojstava (AVCP) (EN 1504-8:2016)  
Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and AVCP – Part 8: Quality control and Assessment and verification of the constancy of performance (AVCP) (EN 1504-8:2016)

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

### **HRN EN 196-1:2016 en pr**

Metode ispitivanja cementa – 1. dio: Određivanje čvrstoće (EN 196-1:2016)  
Methods of testing cement – Part 1: Determination of strength (EN 196-1:2016)

### **HRN EN 196-10:2016 en pr**

Metode ispitivanja cementa – 10. dio: Određivanje udjela u vodi topivog kroma (VI) u cementu (EN 196-10:2016)  
Methods of testing cement – Part 10: Determination of the water-soluble chromium (VI) content of cement (EN 196-10:2016)

## **HZN/TO 92, Zaštita od požara**

### **HRN EN 16733:2016 en pr**

Ispitivanja reakcije na požar građevnih proizvoda – Određivanje sklonosti građevnog proizvoda za neprekidno tinjanje (EN 16733:2016)  
Reaction to fire tests for building products – Determination of a building product's propensity to undergo continuous smouldering (EN 16733:2016)

## **HZN/TO 120, Koža i obuća**

### **HRI CEN/TR 16417:2016 en pr**

Obuća – Smjernice za tvari vrlo visokog značaja za industriju obuće (Dodatak XIV prema REACH-u) (CEN/TR 16417:2016)  
Footwear – Footwear industry guideline for substances of very high concern (Annex XIV of REACH) (CEN/TR 16417:2016)

### **HRN EN ISO 17694:2016 en pr**

Obuća – Metode ispitivanja gornjišta i podstave – Otpornost na savijanje (ISO 17694:2016; EN ISO 17694:2016)  
Footwear – Test methods for uppers and lining – Flex resistance (ISO 17694:2016; EN ISO 17694:2016)

**HRN EN ISO 17697:2016 en pr**

Obuća – Metode ispitivanja gornjišta, podstave i uložnih tabanica – Čvrstoča šava (ISO 17697:2016; EN ISO 17697:2016)

Footwear – Test methods for uppers, lining and insocks – Seam strength (ISO 17697:2016; EN ISO 17697:2016)

**HRN EN ISO 17698:2016 en pr**

Obuća – Metode ispitivanja gornjišta – Otpornost raslojavanja (ISO 17698:2016; EN ISO 17698:2016)

Footwear – Test methods for uppers – Delamination resistance (ISO 17698:2016; EN ISO 17698:2016)

**HRN EN ISO 17701:2016 en pr**

Obuća – Metode ispitivanja gornjišta, podstave i uložnih tabanica – Migracija bojila (ISO 17701:2016; EN ISO 17701:2016)

Footwear – Test methods for uppers, lining and insocks – Colour migration (ISO 17701:2016; EN ISO 17701:2016)

**HRN EN ISO 18403:2016 en pr**

Obuća – Metode ispitivanja patentnih zatvarača – Otpornost na oštećivanje koje nastaje zatvaranjem pod bočnom silom (ISO 18403:2016; EN ISO 18403:2016)

Footwear – Test methods for slide fasteners – Resistance to damage during closure under a lateral force (ISO 18403:2016; EN ISO 18403:2016)

**HRN EN ISO 19070:2016 en pr**

Koža – Kemijsko određivanje N-metil-2pirolidona (NMP) u koži (ISO 19070:2016; EN ISO 19070:2016)

Leather – Chemical determination of N-methyl-2-pyrrolidone (NMP) in leather (ISO 19070:2016; EN ISO 19070:2016)

**HRN EN ISO 19071:2016 en pr**

Koža – Kemijkska ispitivanja – Određivanje kroma (VI) i reduktivne sposobnosti kroma u sredstvima za štavljenje (ISO 19071:2016; EN ISO 19071:2016)

Leather – Chemical tests – Determination of chromium (VI) and the reductive potential for chromium tanning agents (ISO 19071:2016; EN ISO 19071:2016)

**HRN EN ISO 22649:2016 en pr**

Obuća – Metode ispitivanja za uložnih i temeljnih tabanica – Upijanje i otpuštanje vode (ISO 22649:2016; EN ISO 22649:2016)

Footwear – Test methods for insoles and insocks – Water absorption and desorption (ISO 22649:2016; EN ISO 22649:2016)

**HZN/TO 135, Nerazorna ispitivanja****HRN EN ISO 12707:2016 en pr**

Nerazorno ispitivanje – Ispitivanje magnetskim česticama – Terminološki rječnik (ISO 12707:2016; EN ISO 12707:2016)

Non-destructive testing – Magnetic particle testing – Vocabulary (ISO 12707:2016; EN ISO 12707:2016)

**HZN/TO 138, Plastične cijevi, spojnice i ventili za prijenos tekućina****HRN EN 12200-1:2016 en pr**

Plastični cijevni sustavi oborinskih voda za nadzemnu uporabu – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 12200-1:2016)

Plastics rainwater piping systems for above ground external use – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes, fittings and the system (EN 12200-1:2016)

## **HN/T0 147, Kvaliteta vode**

**HRN EN ISO 18635:2016** en pr

Kvaliteta vode – Određivanje kratkolančanih polikloriranih alkana (SCCPs) u sedimentu, otpadnome mulju i suspendiranoj tvari (česticama) – Metoda plinske kromatografije-spektrometrije masa (GC-MS) i negativne ionizacije uz zahvat elektrona (ECNI) (ISO 18635:2016; EN ISO 18635:2016)

Water quality – Determination of short-chain polychlorinated alkanes (SCCPs) in sediment, sewage sludge and suspended (particulate) matter – Method using gas chromatography-mass spectrometry (GC-MS) and electron capture negative ionization (ECNI) (ISO 18635:2016; EN ISO 18635:2016)

## **HN/T0 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

**HRN EN ISO 17943:2016** en pr

Kvaliteta vode – Određivanje hlapljivih organskih spojeva u vodi – Metoda mikroekstrakcije vršnih para na čvrstoj fazi (HS-SPME) uz plinsku kromatografiju-spektrometriju masa (GC-MS) (ISO 17943:2016; EN ISO 17943:2016)

Water quality – Determination of volatile organic compounds in water – Method using headspace solid-phase micro-extraction (HS-SPME) followed by gas chromatography-mass spectrometry (GC-MS) (ISO 17943:2016; EN ISO 17943:2016)

## **HN/T0 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja**

**HRN EN 16772:2016** en pr

Kvaliteta vode – Upute za metode uzorkovanja beskralježnjaka u hiporeičkoj zoni rijeka (EN 16772:2016)

Water quality – Guidance on methods for sampling invertebrates in the hyporheic zone of rivers (EN 16772:2016)

## **HN/T0 165, Drvene konstrukcije**

**HRN EN 338:2016** en pr

Konstrukcijsko drvo – Razredi čvrstoće (EN 338:2016)

Structural timber – Strength classes (EN 338:2016)

**HRN EN 16737:2016** en pr

Konstrukcijsko drvo – Razvrstavanje čvrstoće tropskoga tvrdog drva vizualnim pregledom (EN 16737:2016)

Structural timber – Visual strength grading of tropical hardwood (EN 16737:2016)

## **HN/T0 181, Sigurnost igračaka i proizvodi za djecu**

**HRN EN 71-1:2015/Ispr.1:2016** hr izv

Sigurnost igračaka – 1. dio: Mehanička i fizikalna svojstva

Safety of toys – Part 1: Mechanical and physical properties

## **HN/T0 196, Prirodni kamen**

**HRN EN 14617-2:2016** en pr

Kameni aglomerat – Metode ispitivanja – 2. dio: Određivanje čvrstoće pri savijanju (savijanje) (EN 14617-2:2016)

Agglomerated stone – Test methods – Part 2: Determination of flexural strength (bending) (EN 14617-2:2016)

## **HN/T/TO 215, Medicinska informatika**

### **HRN EN ISO 21549-5:2016 en pr**

Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 5. dio: Identifikacijski podaci (ISO 21549-5:2015; EN ISO 21549-5:2016)

Health informatics – Patient healthcare data – Part 5: Identification data (ISO 21549-5:2015; EN ISO 21549-5:2016)

## **HN/T/TO 218, Drvo**

### **HRN EN 1910:2016 en pr**

Drveni podovi i drvene obloge zidova i stropova – Određivanje stabilnosti dimenzija (EN 1910:2016)

Wood flooring and wood panelling and cladding – Determination of dimensional stability (EN 1910:2016)

## **HN/T/TO 219, Podne obloge**

### **HRN EN 16776:2016 en pr**

Elastične podne obloge – Nehomogene poliuretanske podne obloge – Specifikacija (EN 16776:2016)

Resilient floor coverings – Heterogeneous polyurethane floor coverings – Specification (EN 16776:2016)

## **HN/T/TO 221, Geosintetici**

### **HRN EN 13719:2016 en pr**

Geosintetici – Određivanje dugotrajne zaštitne učinkovitosti geosintetika u dodiru s geosintetičkim barijerama (EN 13719:2016)

Geosynthetics – Determination of the long term protection efficiency of geosynthetics in contact with geosynthetic barriers (EN 13719:2016)

## **HN/T/TO 238, Čvrsta biogoriva**

### **HRN EN ISO 17827-1:2016 en pr**

Čvrsta biogoriva – Određivanje granulometrijskoga sastava nekomprimiranog goriva – 1. dio: Metoda oscilacijskog prosijavanja upotrebom sita promjera 3,15 mm i većeg (ISO 17827-1:2016; EN ISO 17827-1:2016)

Solid Biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above (ISO 17827-1:2016; EN ISO 17827-1:2016)

### **HRN EN ISO 17827-2:2016 en pr**

Čvrsta biogoriva – Određivanje granulometrijskoga sastava nekomprimiranog goriva – 2. dio: Metoda vibracijskog prosijavanja upotrebom sita promjera 3,15 mm i manjeg (ISO 17827-2:2016; EN ISO 17827-2:2016)

Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 2: Vibrating screen method using sieves with aperture of 3,15 mm and below (ISO 17827-2:2016; EN ISO 17827-2:2016)

### **HRN EN ISO 17830:2016 en pr**

Čvrsta biogoriva – Granulometrijski sastav raspadnutog peleta (ISO 17830:2016; EN ISO 17830:2016)

Solid biofuels – Particle size distribution of disintegrated pellets (ISO 17830:2016; EN ISO 17830:2016)

## **HN/T0 502, Plinski uređaji**

### **HRN EN 88-1:2016 en pr**

Regulatori tlaka i pripadajuće sigurnosne naprave za plinske uređaje – 1. dio: Regulatori tlaka za tlak do 50 kPa i uključujući 50 kPa (EN 88-1:2011+A1:2016)

Pressure regulators and associated safety devices for gas appliances – Part 1: Pressure regulators for inlet pressures up to and including 50 kPa (EN 88-1:2011+A1:2016)

## **HN/T0 503, Metalni materijali**

### **HRN EN 10314:2016 en pr**

Postupak određivanja najmanjih vrijednosti granice razvlačenja čelika pri povišenim temperaturama (EN 10314:2016)

Method for the derivation of minimum values of proof strength of steel at elevated temperatures (EN 10314:2016)

### **HRN EN 12449:2016 en pr**

Bakar i legure bakra – Bešavne okrugle cijevi za opću namjenu (EN 12449:2016)

Copper and copper alloys – Seamless, round tubes for general purposes (EN 12449:2016)

## **HN/T0 504, Korozija i zaštita metala i legura**

### **HRN EN ISO 2178:2016 en pr**

Nemagnetske prevlake na magnetskim podlogama – Mjerenje debljine prevlake – Magnetska metoda (ISO 2178:2016; EN ISO 2178:2016)

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method (ISO 2178:2016; EN ISO 2178:2016)

### **HRN EN ISO 2179:2016 en pr**

Elektroplatirane prevlake od legure kositra i nikla – Specifikacija i metode ispitivanja (ISO 2179:1986; EN ISO 2179:2016)

Electroplated coatings of tin-nickel alloy – Specification and test methods (ISO 2179:1986; EN ISO 2179:2016)

### **HRN EN ISO 4519:2016 en pr**

Elektronanesene metalne prevlake i srodne obrade – Postupci uzorkovanja za pregled prema svojstvima (ISO 4519:1980; EN ISO 4519:2016)

Electrodeposited metallic coatings and related finishes – Sampling procedures for inspection by attributes (ISO 4519:1980; EN ISO 4519:2016)

### **HRN EN ISO 10309:2016 en pr**

Metalne prevlake – Ispitivanja poroznosti – Ferroxyl test (ISO 10309:1994; EN ISO 10309:2016)

Metallic coatings – Porosity tests – Ferroxyl test (ISO 10309:1994; EN ISO 10309:2016)

### **HRN EN ISO 14647:2016 en pr**

Metalne prevlake – Određivanje poroznosti na prevlakama zlata na metalnim podlogama – Ispitivanje parama dušične kiseline (ISO 14647:2000; EN ISO 14647:2016)

Metallic coatings – Determination of porosity in gold coatings on metal substrates – Nitric acid vapour test (ISO 14647:2000; EN ISO 14647:2016)

### **HRN EN ISO 15730:2016 en pr**

Metalne i druge anorganske prevlake – Elektropoliranje u svrhu zagladivanja i pasiviziranja nehrđajućeg čelika (ISO 15730:2000; EN ISO 15730:2016)

Metallic and other inorganic coatings – Electropolishing as a means of smoothing and passivating stainless steel (ISO 15730:2000; EN ISO 15730:2016)

**HRN EN ISO 28706-4:2016 en pr**

Staklasti i porculanski emajli – Određivanje otpornosti na kemijsku koroziju – 4. dio: Određivanje otpornosti na kemijsku koroziju pomoću lužnatih tekućina upotrebom cilindrične posude (ISO 28706-4:2016; EN ISO 28706-4:2016)

Vitreous and porcelain enamels – Determination of resistance to chemical corrosion – Part 4: Determination of resistance to chemical corrosion by alkaline liquids using a cylindrical vessel (ISO 28706-4:2016; EN ISO 28706-4:2016)

**HNZ/TO 505, Prijenos i distribucija plina****HRN EN 1473:2016 en pr**

Instalacije i oprema za ukapljeni prirodni plin – Projektiranje instalacija na kopnu (EN 1473:2016)  
Installation and equipment for liquefied natural gas – Design of onshore installations (EN 1473:2016)

**HNZ/TO 508, Ambalaža i pakiranje****HRN EN ISO 8611-2:2012/A1:2016 en pr**

Palete za rukovanje materijalima – Plošne palete – 2. dio: Izvedbeni zahtjevi i izbor načina ispitivanja (ISO 8611-2:2011/Amd 1:2016; EN ISO 8611-2:2012/A1:2016)

Pallets for materials handling – Flat pallets – Part 2: Performance requirements and selection of tests (ISO 8611-2:2011/Amd 1:2016; EN ISO 8611-2:2012/A1:2016)

**HNZ/TO 519, Adhezivi****HRN EN 14814:2016 en pr**

Adhezivi za sustave termoplastičnih cijevi za kapljevine pod pritiskom – Specifikacije (EN 14814:2016)  
Adhesives for thermoplastic piping systems for fluids under pressure – Specifications (EN 14814:2016)

**HRN EN 16254:2016 en pr**

Adhezivi – Polimerizirani izocijanat u emulziji za nosive drvene konstrukcije – Klasifikacija i zahtjevi izvedbe (EN 16254:2013+A1:2016)  
Adhesives – Emulsion polymerized isocyanate (EPI) for load-bearing timber structures – Classification and performance requirements (EN 16254:2013+A1:2016)

**HNZ/TO 521, Usluge održavanja****HRN EN 13269:2016 en pr**

Održavanje – Upute za pripremu ugovora o održavanju (EN 13269:2016)  
Maintenance – Guideline on preparation of maintenance contracts (EN 13269:2016)

**HRN ISO 55000:2016 en pr**

Upravljanje imovinom – Pregled, načela i nazivlje (ISO 55000:2014)  
Asset management – Overview, principles and terminology (ISO 55000:2014)

**HRN ISO 55001:2016 en pr**

Upravljanje imovinom – Sustavi upravljanja – Zahtjevi (ISO 55001:2014)  
Asset management – Management systems – Requirements (ISO 55001:2014)

**HRN ISO 55002:2016 en pr**

Upravljanje imovinom – Sustavi upravljanja – Smjernice za primjenu norme ISO 55001 (ISO 55002:2014)  
Asset management – Management systems – Guidelines for the application of ISO 55001 (ISO 55002:2014)

## **HN/T 522, Karakterizacija i zbrinjavanje otpada**

**HRN EN 16720-1:2016 en pr**

Karakterizacija muljeva – Fizikalna konzistencija – 1. dio: Određivanje sposobnosti tečenja – Metoda pomoću uređaja za isprešavanje (EN 16720-1:2016)

Characterization of sludges – Physical consistency – Part 1: Determination of flowability – Method by extrusion tube apparatus (EN 16720-1:2016)

## **HN/T 524, Inteligentni transportni sustavi**

**HRS CEN/TS 15531-5:2016 en pr**

Javni prijevoz – Sučelje servisa za informiranje u realnom vremenu o statusu javnog prijevoza – 5. dio: Funkcionalno sučelje servisa: Razmjena situacija (CEN/TS 15531-5:2016)

Public transport – Service interface for real-time information relating to public transport operations – Part 5: Functional service interfaces situation exchange: Situation Exchange (CEN/TS 15531-5:2016)

**HRN EN ISO 24534-3:2016 en pr**

Inteligentni transportni sustavi – Automatska identifikacija vozila i opreme – Identifikacija elektroničke registracije (ERI) vozila – 3. dio: Podaci o vozilu (ISO 24534-3:2016; EN ISO 24534-3:2016)

Intelligent transport systems – Automatic vehicle and equipment identification – Electronic registration identification (ERI) for vehicles – Part 3: Vehicle data (ISO 24534-3:2016; EN ISO 24534-3:2016)

## **HN/T 528, Oprema za željeznice**

**HRN EN 13230-1:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 1. dio: Općeniti zahtjevi (EN 13230-1:2016)

Railway applications – Track – Concrete sleepers and bearers – Part 1: General requirements (EN 13230-1:2016)

**HRN EN 13230-2:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 2. dio: Jednodijelni prednapeti betonski pragovi (EN 13230-2:2016)

Railway applications – Track – Concrete sleepers and bearers – Part 2: Prestressed monoblock sleepers (EN 13230-2:2016)

**HRN EN 13230-3:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 3. dio: Dvodijelni amiranobetonski pragovi (EN 13230-3:2016)

Railway applications – Track – Concrete sleepers and bearers – Part 3: Twin-block reinforced sleepers (EN 13230-3:2016)

**HRN EN 13230-4:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 4. dio: Prednapeti betonski pragovi za skretnice i križišta (EN 13230-4:2016)

Railway applications – Track – Concrete sleepers and bearers – Part 4: Prestressed bearers for switches and crossings (EN 13230-4:2016)

**HRN EN 13230-5:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 5. dio: Posebni elementi (EN 13230-5:2016)

Railway applications – Track – Concrete sleepers and bearers – Part 5: Special elements (EN 13230-5:2016)

**HRN EN 15313:2016 en pr**

Željeznički sustav – Zahtjevi za osovinske sklopove u uporabi – Održavanje osovinskih sklopova u uporabi i skladištenju (EN 15313:2016)

Railway applications – In-service wheelset operation requirements – In-service and off-vehicle wheelset maintenance (EN 15313:2016)

**HRN EN 16727-2-2:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Zvučne zapreke i pripadajući uređaji koji djeluju na rasprostiranje zvuka zrakom – Neakustična svojstva – Dio 2-2: Mehanička svojstva pod dinamičkim opterećenjem uzrokovanim prolaskom vlakova – Metoda proračuna (EN 16727-2-2:2016)  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Non-acoustic performance – Part 2-2: Mechanical performance under dynamic loadings caused by passing trains – Calculation method (EN 16727-2-2:2016)

**HRN EN 16729-1:2016 en pr**

Željeznički sustav – Infrastruktura – Nerazorno ispitivanje tračnica u kolosijeku – 1. dio: Zahtjevi za ultrazvučni pregled i načela vrednovanja (EN 16729-1:2016)  
Railway applications – Infrastructure – Non-destructive testing on rails in track – Part 1: Requirements for ultrasonic inspection and evaluation principles (EN 16729-1:2016)

**HRN EN 16730:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači s podloškom za pragove (EN 16730:2016)  
Railway applications – Track – Concrete sleepers and bearers with under sleeper pads (EN 16730:2016)

**HN/T 529, *Granici, dizalice i prenosila neprekidne dobave*****HRN ISO 8566-2:2016 en pr**

Granici – Kabine i upravljačke postaje – 2. dio: Mobilni granici (ISO 8566-2:2016)  
Cranes – Cabins and control stations – Part 2: Mobile cranes (ISO 8566-2:2016)

**HN/T 531, *Plastika i guma*****HRN EN ISO 1043-1:2012/A1:2016 en pr**

Plastika – Simboli i skraćeni nazivi – 1. dio: Osnovni polimeri i njihova karakteristična svojstva (ISO 1043-1:2011/Amd 1:2016; EN ISO 1043-1:2011/A1:2016)  
Plastics – Symbols and abbreviated terms – Part 1: Basic polymers and their special characteristics (ISO 1043-1:2011/Amd 1:2016; EN ISO 1043-1:2011/A1:2016)

**HRN EN ISO 1043-4:2008/A1:2016 en pr**

Plastika – Simboli i skraćeni nazivi – 4. dio: Usporavala gorenja (ISO 1043-4:1998/Amd 1:2016; EN ISO 1043-4:1999/A1:2016)  
Plastics – Symbols and abbreviated terms – Part 4: Flame retardants (ISO 1043-4:1998/Amd 1:2016; EN ISO 1043-4:1999/A1:2016)

**HRN EN ISO 4892-1:2016 en pr**

Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 1. dio: Opće upute (ISO 4892-1:2016; EN ISO 4892-1:2016)  
Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance (ISO 4892-1:2016; EN ISO 4892-1:2016)

**HN/T 532, *Dimnjaci*****HRN EN 16475-3:2016 en pr**

Dimnjaci – Pribor – 3. dio: Regulatori podtlaka, uređaji za zatvaranje i kombinirani sustavi za dovod sekundarnog zraka – Zahtjevi i metode ispitivanja (EN 16475-3:2016)  
Chimneys – Accessories – Part 3: Draught regulators, standstill opening devices and combined secondary air devices – Requirements and test methods (EN 16475-3:2016)

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

### **HRN EN 12697-16:2016 en pr**

Bitumenske mješavine – Metode ispitivanja – 16. dio: Abrazija uporabom guma s čavlima (EN 12697-16:2016)

Bituminous mixtures – Test methods – Part 16: Abrasion by studded tyres (EN 12697-16:2016)

### **HRN EN 12697-35:2016 en pr**

Bitumenske mješavine – Metode ispitivanja – 35. dio: Laboratorijsko miješanje (EN 12697-35:2016)

Bituminous mixtures – Test methods – Part 35: Laboratory mixing (EN 12697-35:2016)

### **HRS CEN/TS 12697-50:2016 en pr**

Bitumenske mješavine – Metode ispitivanja – 50. dio: Otpornost na habanje (CEN/TS 12697-50:2016)  
Bituminous mixtures – Test methods – Part 50: Resistance to scuffing (CEN/TS 12697-50:2016)

### **HRS CEN/TS 13286-54:2016 en pr**

Nevezane i hidrauličnim vezivom vezane mješavine – 54. dio: Metoda ispitivanja za određivanje osjetljivosti na zamrzavanje – Otpornost na smrzavanje i odmrzavanje hidrauličnim vezivom vezanih mješavina (CEN/TS 13286-54:2014)

Unbound and hydraulically bound mixtures – Part 54: Test method for the determination of frost susceptibility – Resistance to freezing and thawing of hydraulically bound mixtures (CEN/TS 13286-54:2014)

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

### **HRN EN 13121-3:2016 en pr**

Spremnici i posude od plastike ojačane stakлом (GRP) za nadzemnu upotrebu – 3. dio: Projektiranje i izrada (EN 13121-3:2016)

GRP tanks and vessels for use above ground – Part 3: Design and workmanship (EN 13121-3:2016)

### **HRN EN ISO 24490:2016 en pr**

Kriogenične posude – Pumpe za kriogenične uvjete (ISO 24490:2016; EN ISO 24490:2016)

Cryogenic vessels – Pumps for cryogenic service (ISO 24490:2016; EN ISO 24490:2016)

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

### **HRN EN 13055:2016 en pr**

Lagani agregati (EN 13055:2016)

Lightweight aggregates (EN 13055:2016)

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

### **HRN EN ISO 3040:2016 en pr**

Geometrijske specifikacije proizvoda (GSP) – Kotiranje i tolerancije – Stošci (ISO 3040:2016; EN ISO 3040:2016)

Geometrical product specifications (GPS) – Dimensioning and tolerancing – Cones (ISO 3040:2016; EN ISO 3040:2016)

### **HRN EN ISO 10360-10:2016 en pr**

Geometrijske specifikacije proizvoda (GSP) – Testovi za prihvatljivost i naknadnu provjeru trokoordinatnih mjernih uređaja (CMS) – 10. dio: Laserski tragači za mjerjenje udaljenosti od točke do točke (ISO 10360-10:2016; EN ISO 10360-10:2016)

Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 10: Laser trackers for measuring point-to-point distances (ISO 10360-10:2016; EN ISO 10360-10:2016)

**HRN EN ISO 25178-1:2016 en pr**

Geometrijske specifikacije proizvoda (GSP) – Tekstura površine: Ploštinska – 1. dio: Oznaka teksture površine (ISO 25178-1:2016; EN ISO 25178-1:2016)

Geometrical product specifications (GPS) – Surface texture: Areal – Part 1: Indication of surface texture (ISO 25178-1:2016; EN ISO 25178-1:2016)

**HZN/TO 539, Kemijski dezinficijensi i antiseptici****HRN EN 1657:2016 en pr**

Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu fungicidne djelotvornosti ili djelotvornosti na kvasce kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u veterinarstvu – Metoda ispitivanja i zahtjevi (faza 2, korak 1) (EN 1657:2016)

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area – Test method and requirements (phase 2, step 1) (EN 1657:2016)

**HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama****HRN EN ISO 14414:2015/A1:2016 en pr**

Energijska procjena pumpnih sustava (ISO/ASME 14414:2015/Amd 1:2016;  
EN ISO 14414:2015/A1:2016)

Pump system energy assessment (ISO/ASME 14414:2015/Amd 1:2016;  
EN ISO 14414:2015/A1:2016)

**HRN EN 16480:2016 en pr**

Pumpe – Minimalna potrebna učinkovitost za rotacijske pumpe za vodu (EN 16480:2016)  
Pumps – Minimum required efficiency of rotodynamic water pumps (EN 16480:2016)

**HZN/TO 543, Poštanske usluge****HRS CEN/TS 16919:2016 en pr**

Poštanske usluge – Sučelje i format prijenosa podataka za prikupljanje automatiziranih poštanskih događaja (CEN/TS 16919:2016)

Postal services – Interface and data transfer format for capturing postal automation events IDT-PAE (CEN/TS 16919:2016)

**HZN/TO 546, Očuvanje kulturne baštine****HRN EN 16782:2016 en pr**

Očuvanje kulturne baštine – Čišćenje poroznih anorganskih materijala – Laserske tehnike čišćenja u zaštiti kulturne baštine (EN 16782:2016)

Conservation of cultural heritage – Cleaning of porous inorganic materials – Laser cleaning techniques for cultural heritage (EN 16782:2016)

**HZN/TO 548, Konstrukcijski eurokodovi****HRN EN 1993-1-4:2014/A1:2016 hr pp**

Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-4: Opća pravila – Dodatna pravila za nehrđajuće čelike (EN 1993-1-4:2006/A1:2015)

Eurocode 3: Design of steel structures – Part 1-4: General rules – Supplementary rules for stainless steels (EN 1993-1-4:2006/A1:2015)

**HRN EN 1993-1-4:2014/NA:2016 hr izv**

Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-4: Opća pravila – Dodatna pravila za nehrđajuće čelike – Nacionalni dodatak

Eurocode 3: Design of steel structures – Part 1-4: General rules – Supplementary rules for stainless steels – National Annex

**HRN EN 1997-1:2012/NA:2016** hr izv  
Eurokod 7: Geotehničko projektiranje – 1. dio: Opća pravila – Nacionalni dodatak  
Eurocode 7: Geotechnical design – Part 1: General rules – National Annex

### **HNZ/TO 550, Opskrba vodom**

**HRN EN 902:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Vodikov peroksid (EN 902:2016)  
Chemicals used for treatment of water intended for human consumption – Hydrogen peroxide (EN 902:2016)

**HRN EN 937:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Klor (EN 937:2016)  
Chemicals used for treatment of water intended for human consumption – Chlorine (EN 937:2016)

**HRN EN 938:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Natrijev klorit (EN 938:2016)  
Chemicals used for treatment of water intended for human consumption – Sodium chlorite (EN 938:2016)

**HRN EN 939:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Klorovodična kiselina (EN 939:2016)  
Chemicals used for treatment of water intended for human consumption – Hydrochloric acid (EN 939:2016)

**HRN EN 12671:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Klorov dioksid proizveden in situ (EN 12671:2016)  
Chemicals used for treatment of water intended for human consumption – Chlorine dioxide generated in situ (EN 12671:2016)

**HRN EN 12672:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kalijev permanganat (EN 12672:2016)  
Chemicals used for treatment of water intended for human consumption – Potassium permanganate (EN 12672:2016)

**HRN EN 12678:2016** en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kalijev peroksomonosulfat (EN 12678:2016)  
Chemical used for treatment of water intended for human consumption – Potassium peroxomonosulfate (EN 12678:2016)

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

**HRI CEN/TR 15739:2016** en pr  
Predgotovljeni betonski proizvodi – Završne obrade betona – Identifikacija (CEN/TR 15739:2008)  
Precast concrete products – Concrete finishes – Identification (CEN/TR 15739:2008)

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

**HRN EN 1253-3:2016** en pr  
Odvodi za zgrade – 3. dio: Vrednovanje sukladnosti (EN 1253-3:2016)  
Gullies for buildings – Part 3: Evaluation of conformity (EN 1253-3:2016)

**HRN EN 1253-4:2016** en pr  
Ovdovi za zgrade – 4. dio: Kontrolni otvori za prilaz sifonu (EN 1253-4:2016)  
Gullies for buildings – Part 4: Access covers (EN 1253-4:2016)

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

**HRN EN ISO 14155:2011/Ispr.1:2016** en pr  
Klinička ispitivanja medicinskih sredstava za ljudi – Dobra klinička praksa  
(ISO 14155:2011/Cor 1:2011; EN ISO 14155:2011/AC:2011)  
Clinical investigation of medical devices for human subjects – Good clinical practice  
(ISO 14155:2011/Cor 1:2011; EN ISO 14155:2011/AC:2011)

**HRN EN ISO 15225:2016** en pr  
Medicinski proizvodi – Upravljanje kvalitetom – Nomenklatura strukture podataka medicinskih proizvoda (ISO 15225:2016; EN ISO 15225:2016)  
Medical devices – Quality management – Medical device nomenclature data structure  
(ISO 15225:2016; EN ISO 15225:2016)

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

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

**HRN 1131:2016** hr izv  
Osobna zaštitna oprema protiv pada s visine – Čelične penjalice za drvene stupove za vodove  
Personal protective equipment against falls from a height – Climbing irons for wooden poles

### **HNZ/TO 557, Zaštitna odjeća**

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

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

**HRN EN 12760:2016** en pr  
Industrijski zaporni uređaji – Naglavci za zavarivanje za čelične zaporne uređaje (EN 12760:2016)  
Industrial valves – Socket welding ends for steel valves (EN 12760:2016)

**HRN EN 16767:2016** en pr  
Industrijski zaporni uređaji – Protupovratne zaklopke od lijevanog željeza i čelika (EN 16767:2016)  
Industrial valves – Steel and cast iron check valves (EN 16767:2016)

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

**HRN EN 14065:2016** en pr  
Tekstil – Tekstil u postupku pranja – Sustav kontrole bioonečišćenja (EN 14065:2016)  
Textiles – Laundry processed textiles – Biocontamination control system (EN 14065:2016)

**HRN EN 16812:2016 en pr**

Tekstil i tekstilni proizvodi – Električno vodljivi tekstil – Određivanje linearne električne otpore vodljivih staza (EN 16812:2016)

Textiles and textile products – Electrically conductive textiles – Determination of the linear electrical resistance of conductive tracks (EN 16812:2016)

**HRN EN ISO 17751-1:2016 en pr**

Tekstil – Kvantitativne metode analize kašmira, vune i drugih specijalnih životinjskih vlakana i njihovih mješavina – 1. dio: Metoda svjetlosne mikroskopije (ISO 17751-1:2016; EN ISO 17751-1:2016)

Textiles – Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends – Part 1: Light Microscopy method (ISO 17751-1:2016; EN ISO 17751-1:2016)

**HRN EN ISO 17751-2:2016 en pr**

Tekstil – Kvantitativne metode analize kašmira, vune i drugih specijalnih životinjskih vlakana i njihovih mješavina – 2. dio: Metoda skeniranja elektronskim mikroskopom (ISO 17751-2:2016; EN ISO 17751-2:2016)

Textiles – Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends – Part 2: Scanning Electron Microscopy method (ISO 17751-2:2016; EN ISO 17751-2:2016)

**HRN EN ISO 18254-1:2016 en pr**

Tekstil – Metoda za detekciju i određivanje alikfenol etoksilata (APEO) – 1. dio: Metoda uporabom HPLC - MS-a (ISO 18254-1:2016; EN ISO 18254-1:2016)

Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 1: Method using HPLC - MS (ISO 18254-1:2016; EN ISO 18254-1:2016)

**HNZ/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce****HRN EN 12953-3:2016 en pr**

Dimnjocijevni kotlovi – 3. dio: Projektiranje i proračun dijelova pod tlakom (EN 12953-3:2016)

Shell boilers – Part 3: Design and calculation for pressure parts (EN 12953-3:2016)

**HRN EN ISO 16148:2016 en pr**

Plinske boce – Ponovno punjive bešavne čelične plinske boce i cijevi – Ispitivanje akustičnom emisijom (AT) i prateće ultrazvučno ispitivanje (UT) pri periodičnom pregledu i ispitivanju (ISO 16148:2016; EN ISO 16148:2016)

Gas cylinders – Refillable seamless steel gas cylinders and tubes – Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing (ISO 16148:2016; EN ISO 16148:2016)

**HRN EN 16652-1:2016 en pr**

Oprema i pribor za UNP – Radionice za motorna vozila na UNP – 1. dio: Radni prostori i postupci (EN 16652-1:2016)

LPG equipment and accessories – Automotive LPG vehicles workshops – Part 1: Working areas and procedures (EN 16652-1:2016)

**HNZ/TO 564, Uljarice, biljna i životinjska ulja i masti****HRN EN ISO 662:2016 en pr**

Životinjske i biljne masti i ulja – Određivanje količine vode i hlapljivih tvari (ISO 662:2016; EN ISO 662:2016)

Animal and vegetable fats and oils – Determination of moisture and volatile matter content (ISO 662:2016; EN ISO 662:2016)

**HRN EN ISO 9936:2016 en pr**

Životinjske i biljne masti i ulja – Određivanje sadržaja tokoferola i tokotrienola tekućinskom kromatografijom visoke djelotvornosti (ISO 9936:2016; EN ISO 9936:2016)

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography (ISO 9936:2016; EN ISO 9936:2016)

**HRN EN ISO 15753:2016 en pr**

Životinjske i biljne masti i ulja – Određivanje policikličkih aromatskih ugljikovodika (ISO 15753:2016; EN ISO 15753:2016)

Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons (ISO 15753:2016; EN ISO 15753:2016)

**HNZ/TO 566, *Mlijeko i mliječni proizvodi*****HRN EN ISO 8968-4:2016 en pr**

Mlijeko i mliječni proizvodi – Određivanje sadržaja dušika – 4. dio: Određivanje sadržaja proteinskog i neproteinskog dušika i izračunavanje stvarnog sadržaja proteina (referentna metoda) (ISO 8968-4:2016; EN ISO 8968-4:2016)

Milk and milk products – Determination of nitrogen content – Part 4: Determination of protein and non protein nitrogen content and true protein content calculation (Reference method) (ISO 8968-4:2016; EN ISO 8968-4:2016)

**HNZ/TO 568, *Analize hrane - Horizontalne metode*****HRN EN ISO 18744:2016 en pr**

Mikrobiologija lanca hrane – Dokazivanje prisutnosti i određivanje broja Cryptosporidium i Giardia u svježem lisnatom zelenom povrću i bobičastom voću (ISO 18744:2016; EN ISO 18744:2016)

Microbiology of the food chain – Detection and enumeration of Cryptosporidium and Giardia in fresh leafy green vegetables and berry fruits (ISO 18744:2016; EN ISO 18744:2016)

**HNZ/TO 571, *Sport, igrališta i ostali rekreativski sadržaji i oprema*****HRN EN 12503-2:2016 en pr**

Sportske strunjače – 2. dio: Strunjače za skok s motkom i skok u vis, sigurnosni zahtjevi (EN 12503-2:2016)

Sports mats – Part 2: Pole vault and high jump mats, safety requirements (EN 12503-2:2016)

**HRN EN 12503-4:2016 en pr**

Sportske strunjače – 4. dio: Određivanje prigušenja udaraca (EN 12503-4:2016)

Sports mats – Part 4: Determination of shock absorption (EN 12503-4:2016)

**HNZ/TO E9, *Električna oprema za željeznicu*****HRN EN 60310:2016 en pr**

Željeznički sustav – Vučni transformatori i prigušnice u željezničkim vozilima (IEC 60310:2016; EN 60310:2016)

Railway applications – Traction transformers and inductors on board rolling Stock (IEC 60310:2016; EN 60310:2016)

**HRN EN 61377:2016 en pr**

Željeznički sustav – Željeznička vozila – Kombinirana ispitivanja motora i njihovog upravljačkog sustava (IEC 61377:2016; EN 61377:2016)

Railway applications – Rolling stock – Combined-testing of motors and their control system (IEC 61377:2016; EN 61377:2016)

**HRN EN 62718:2016 en pr**

Željeznički sustav – Željeznička vozila – Elektroničke prigušnice za fluorescentne žarulje za osvjetljenje, koje se napajaju istosmjernom strujom (IEC 62718:2013+Corr.1:2016; EN 62718:2016)

Railway applications – Rolling stock – DC supplied electronic ballasts for lighting fluorescent lamps (IEC 62718:2013+Corr.1:2016; EN 62718:2016)

## **HN/T0 E22, Energetska elektronika**

### **HRI IEC/TR 62543:2013/A1:2016 en pr**

Prijenos energije u sustavu istosmjerne struje visokog napona (HVDC) uporabom pretvarača s naponskim ulazom (VSC) (IEC/TR 62543:2011/am1:2013)

High-voltage direct current (HVDC) power transmission using voltage sourced converters (VSC) (IEC/TR 62543:2011/am1:2013)

### **HRS IEC/TS 62578:2016 en pr**

Sustavi i oprema energetske elektronike – Radni uvjeti i značajke primjena aktivnih pretvaračkih izvora energije (AIC) uključujući dizajn i preporuke za njihove vrijednosti emisije ispod 150 kHz (IEC/TS 62578:2015)

Power electronics systems and equipment – Operation conditions and characteristics of active infeed converter (AIC) applications including design recommendations for their emission values below 150 kHz (IEC/TS 62578:2015)

## **HN/T0 E23, Električni instalacijski pribor**

### **HRN EN 61008-1:2012/A1:2015/Ispr.1:2016 en pr**

Strujne zaštitne sklopke bez združene nadstrujne zaštite za kućanstvo i slične primjene (RCCB-i) – 1. dio: Opća pravila (IEC 61008-1:2010/am1:2012/Corr.1:2016; EN 61008-1:2012/A1:2014/AC:2016-06)

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules (IEC 61008-1:2010/am1:2012/Corr.1:2016; EN 61008-1:2012/A1:2014/AC:2016-06)

### **HRN EN 61009-1:2012/A12:2016 en pr**

Strujne zaštitne sklopke sa združenom nadstrujnom zaštitom za kućanstvo i slične primjene (RCBO-i) – 1. dio: Opća pravila (EN 61009-1:2012/A12:2016)

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules (EN 61009-1:2012/A12:2016)

### **HRN HD 62640:2015/A11:2016 en pr**

Strujne zaštitne sklopke sa ili bez nadstrujne zaštite za utičnice za kućanstvo i slične primjene (HD 62640:2015/A11:2016)

Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses (HD 62640:2015/A11:2016)

## **HN/T0 E31, Eksplozivne atmosfere**

### **HRN EN ISO 80079-36:2016 en pr**

Eksplozivne atmosfere – 36. dio: Neelektrična oprema za uporabu u eksplozivnim atmosferama – Osnovne metode i zahtjevi (ISO 80079-36:2016; EN ISO 80079-36:2016)

Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements (ISO 80079-36:2016; EN ISO 80079-36:2016)

### **HRN EN ISO 80079-37:2016 en pr**

Eksplozivne atmosfere – 37. dio: Neelektrična oprema za uporabu u eksplozivnim atmosferama – Neelektrični tip zaštite konstrukcijskom sigurnošću "c", nadzorom uzročnika paljenja "b", uranjanjem u tekućine "k" (ISO 80079-37:2016; EN ISO 80079-37:2016)

Explosive atmospheres – Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k" (ISO 80079-37:2016; EN ISO 80079-37:2016)

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

**HRN EN 60598-2-22:2015/Ispr.2:2016 en pr**

Svjetiljke – Dio 2-22: Posebni zahtjevi – Svjetiljke za rasvjetu u slučaju opasnosti (IEC 60598-2-22:2014/Corr.2:2016; EN 60598-2-22:2014/AC:2016-05)

Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (IEC 60598-2-22:2014/Corr.2:2016; EN 60598-2-22:2014/AC:2016-05)

**HRN EN 62722-2-1:2016 en pr**

Značajke svjetiljki – Dio 2-1: Posebni zahtjevi za svjetiljke sa svjetlećim diodama (IEC 62722-2-1:2014; EN 62722-2-1:2016)

Luminaire performance – Part 2-1: Particular requirements for LED luminaires (IEC 62722-2-1:2014; EN 62722-2-1:2016)

## **HZN/TO E55, Žice za namote**

**HRN EN 62446-1:2016 en pr**

Mrežom spojeni PV sustavi – 1. dio: Zahtjevi za dokumentaciju sustava, puštanje u pogon, ispitivanja i inspekciju (IEC 62446-1:2016; EN 62446-1:2016)

Grid connected PV systems – Part 1: Requirements for system documentation, commissioning tests and inspection (IEC 62446-1:2016; EN 62446-1:2016)

## **HZN/TO E56, Pouzdanost**

**HRN EN 61882:2016 en pr**

Studije opasnosti i pripravnosti za rad – Upute za primjenu (IEC 61882:2016; EN 61882:2016)

Hazard and operability studies (HAZOP studies) – Application guide (IEC 61882:2016; EN 61882:2016)

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

**HRN EN 61968-8:2016 en pr**

Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 8. dio: Sučelja za korisničku podršku (IEC 61968-8:2015; EN 61968-8:2016)

Application integration at electric utilities – System interfaces for distribution management – Part 8: Interfaces for customer operations (IEC 61968-8:2015; EN 61968-8:2016)

## **HZN/TO E59, Uporabne značajke električnih kućanskih aparata**

**HRN EN 50193-2-1:2016 en pr**

Električne protočne grijalice vode – Dio 2-1: Metode za mjerjenje radnog učinka – Protočne grijalice vode s više funkcija (EN 50193-2-1:2016)

Electric instantaneous water heaters – Part 2-1: Methods for measuring the performance – Multifunctional electric instantaneous water heaters (EN 50193-2-1:2016)

**HRN EN 60456:2016 en pr**

Perilice rublja za kućansku uporabu – Ispitne metode za mjerjenje radnih značajka (IEC 60456:2010; EN 60456:2016)

Clothes washing machines for household use – Methods for measuring the performance (IEC 60456:2010; EN 60456:2016)

## **HN/T0 E62, Električna oprema u medicinskoj praksi**

### **HRN EN 60601-2-44:2010/A2:2016 en pr**

Medicinska električna oprema – Dio 2-44: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke rendgenske opreme za kompjutoriziranu tomografiju (IEC 60601-2-44:2009/am2:2016; EN 60601-2-44:2009/A2:2016)

Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography (IEC 60601-2-44:2009/am2:2016; EN 60601-2-44:2009/A2:2016)

### **HRN EN 62563-1:2011/A1:2016 en pr**

Medicinska električna oprema – Sustavi za predočivanje medicinskih slika – 1. dio: Postupci vrednovanja (IEC 62563-1:2009/am1:2016; EN 62563-1:2010/A1:2016)

Medical electrical equipment – Medical image display systems – Part 1: Evaluation methods (IEC 62563-1:2009/am1:2016; EN 62563-1:2010/A1:2016)

## **HN/T0 E64, Električne instalacije i zaštita od električnog udara**

### **HRN HD 60364-7-712:2016 en pr**

Niskonaponske električne instalacije – Dio 7-712: Zahtjevi za posebne instalacije ili prostore – Fotonaponski sustavi (PV) (HD 60364-7-712:2016)

Low-voltage electrical installations – Part 7-712: Requirements for special installations or locations – Photovoltaic (PV) systems (HD 60364-7-712:2016)

### **HRN EN 61140:2016 en pr**

Zaštita od električnog udara – Zajednička gledišta na instalaciju i opremu (IEC 61140:2016; EN 61140:2016)

Protection against electric shock – Common aspects for installation and equipment (IEC 61140:2016; EN 61140:2016)

## **HN/T0 E69, Cestovna i industrijska električna vozila**

### **HRN EN 61851-23:2014/Ispri.1:2016 en pr**

Sustav kontaktog punjenja električnih vozila – 23. dio: Stanica za punjenje vozila istosmjernom strujom (IEC 61851-23:2014/Corr.1:2016; EN 61851-23:2014/AC:2016-06)

Electric vehicle conductive charging system – Part 23: DC electric vehicle charging station (IEC 61851-23:2014/Corr.1:2016; EN 61851-23:2014/AC:2016-06)

## **HN/T0 E80, Pomorska navigacijska i radiokomunikacijska oprema i sustavi**

### **HRN EN 61162-450:2011/A1:2016 en pr**

Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Digitalna sučelja – 450. dio: Više govornika i više slušatelja – Ethernet interkonekcija (IEC 61162-450:2011/am1:2016; EN 61162-450:2011/A1:2016)

Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection (IEC 61162-450:2011/am1:2016; EN 61162-450:2011/A1:2016)

## **HN/T0 E85, Oprema za mjerjenje električnih i elektromagnetskih veličina**

### **HRN EN 61557-8:2015/Ispri.1:2016 en pr**

Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerjenje ili nadzor zaštitnih mjera – 8. dio: Naprave za nadzor izolacije za IT sustave (IEC 61557-8:2014/Corr.1:2016; EN 61557-8:2015/AC:2016-06)

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems (IEC 61557-8:2014/Corr.1:2016; EN 61557-8:2015/AC:2016-06)

**HRN EN 61557-9:2015/Ispr.1:2016 en pr**

Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerjenje ili nadzor stupnjeva zaštite – 9. dio: Oprema za određivanje mjesta loše izolacije u IT sustavima (IEC 61557-9:2014/Corr.1:2016; EN 61557-9:2015/AC:2016-06)

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing; measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems (IEC 61557-9:2014/Corr.1:2016; EN 61557-9:2015/AC:2016-06)

**HNZ/TO E88, Vjetroagregati****HRN EN 61400-13:2016 en pr**

Vjetroagregati – 13. dio: Mjerenje mehaničkih opterećenja (IEC 61400-13:2015; EN 61400-13:2016)  
Wind turbines – Part 13: Measurement of mechanical loads (IEC 61400-13:2015; EN 61400-13:2016)

**HNZ/TO E100, Audio, video i multimedijski sustavi te njihova oprema****HRN EN 60728-5:2016 en pr**

Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 5. dio: Oprema glavne postaje (IEC 60728-5:2015; EN 60728-5:2016)  
Cable networks for television signals, sound signals and interactive services – Part 5: Headend equipment (IEC 60728-5:2015; EN 60728-5:2016)

**HNZ/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije****HRN EN 62911:2016 en pr**

Audio i video oprema te oprema informacijske tehnologije – Uobičajeni postupci ispitivanja električne sigurnosti u proizvodnji (IEC 62911:2016; EN 62911:2016)  
Audio, video and information technology equipment – Routine electrical safety testing in production (IEC 62911:2016; EN 62911:2016)

**HNZ/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama****HRN EN 55016-1-3:2008/A1:2016 en pr**

Specifikacija uređaja i metoda za mjerjenja radiosmetnja i otpornosti – Dio 1-3: Uređaji za mjerjenje radiosmetnja i otpornosti – Pomoćna oprema – Snaga smetnja (CISPR 16-1-3:2004/am1:2016; EN 55016-1-3:2006/A1:2016)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-3: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Disturbance power (CISPR 16-1-3:2004/am1:2016; EN 55016-1-3:2006/A1:2016)

**HRI CLC/ETSI/TR 103288:2016 en pr**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Izvješće CENELEC/ETSI-jeve zajedničke radne skupine kao odgovor na pismo Europske komisije ENTRP/F5/DP/MM/entr.f5.(2013)43164 upućeno NSO-ima (CLC/ETSI/TR 103288:2016)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Report of the CENELEC/ETSI Joint Working Group in response to the EC letter ENTRP/F5/DP/MM/entr.f5.(2013)43164 to the ESOs (CLC/ETSI/TR 103288:2016)

**HNZ/TO E502, Elektrotehnički aspekti telekomunikacijske opreme****HRN EN 50310:2016 en pr**

Mreža uzemljenja telekomunikacija u zgradama i ostalim građevinama (EN 50310:2016)  
Telecommunications bonding networks for buildings and other structures (EN 50310:2016)

**HRI CLC/TR 50584:2016 en pr**

Informacijska tehnologija – CENELEC/ETSI pojmovnik naziva i definicije za postavljanje širokopojasne

veze koji uključuju aspekt održivosti (CLC/TR 50584:2014)

Information technology – CENELEC/ETSI Glossary of terms and definitions for broadband deployment including sustainability aspects (CLC/TR 50584:2014)

**HRI CLC/TR 50600-99-1:2016 en pr**

Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 99-1: Preporučene prakse upravljanja energijom (CLC/TR 50600-99-1:2016)

Information technology – Data centre facilities and infrastructures – Part 99-1: Recommended practices for energy management (CLC/TR 50600-99-1:2016)

**HNZ/TO T4, Normizacija u telekomunikacijama****HRN EN 300 468 V1.15.1:2016 en pr**

Digitalna videodifuzija (DVB) – Specifikacija za informacijsku uslugu (SI) u sustavima (EN 300 468 V1.15.1:2016)

Digital Video Broadcasting (DVB) – Specification for Service Information (SI) in DVB systems (EN 300 468 V1.15.1:2016)

**HRN EN 302 885 V2.1.1:2016 en pr**

Prijenosni radiotelefonski uređaji vrlo visokih frekvencija (VHF) s integriranim ručnim uređajem klase D DCS, koji rade u VHF pojasima namijenjenim pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članaka 3.2 i 3.3(g) direktive 2014/53/EU (EN 302 885 V2.1.1:2016)

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU (EN 302 885 V2.1.1:2016)

**HRN EN 302 961 V2.1.1:2016 en pr**

Pomorski far za navođenje do osobe (u opasnosti) namijenjen uporabi na frekvenciji 121,5 MHz samo za potragu i spašavanje – Harmonizirana norma obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 302 961 V2.1.1:2016)

Maritime Personal Homing Beacon intended for use on the frequency 121,5 MHz for search and rescue purposes only – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 961 V2.1.1:2016)

**HRN EN 303 146-1 V1.2.1:2016 en pr**

Rekonfigurabilni radijski sustavi (RRS) – Informacijski modeli i protokoli za mobilne uređaje – 1. dio: Multiradijsko sučelje (MURI) (EN 303 146-1 V1.2.1:2015)

Reconfigurable Radio Systems (RRS) – Mobile Device Information Models and Protocols – Part 1: Multiradio Interface (MURI) (EN 303 146-1 V1.2.1:2015)

**HNZ/TO Z1, Informacijska tehnologija****HRN ISO/IEC 2382:2016 en pr**

Informacijska tehnologija – Rječnik (ISO/IEC 2382:2015)

Information technology – Vocabulary (ISO/IEC 2382:2015)

**HRN ISO/IEC 2382-36:2016 en pr**

Informacijska tehnologija – Rječnik – 36. dio: Učenje, obrazovanje i osposobljavanje (ISO/IEC 2382-36:2013)

Information technology – Vocabulary – Part 36: Learning; education and training (ISO/IEC 2382-36:2013)

**HRN ISO/IEC 2382-37:2016 en pr**

Informacijska tehnologija – Rječnik – 37. dio: Biometrija (ISO/IEC 2382-37:2012)

Information technology – Vocabulary – Part 37: Biometrics (ISO/IEC 2382-37:2012)

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

**HRN EN 13869:2016 en pr**

Upaljači – Zahtjevi za sigurnost djece – Sigurnosni zahtjevi i metode ispitivanja (EN 13869:2016)  
Lighters – Child safety requirements for lighters – Safety requirements and test methods  
(EN 13869:2016)

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

**HRS CEN/TS 16637-3:2016 en pr**

Građevni proizvodi – Procjena otpuštanja opasnih tvari – 3. dio: Horizontalno ispitivanje procjeđivanja tokom prema gore (CEN/TS 16637-3:2016)  
Construction products – Assessment of release of dangerous substances – Part 3: Horizontal up-flow percolation test (CEN/TS 16637-3:2016)

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

**HRN EN 16751:2016 en pr**

Proizvodi na biološkoj osnovi – Kriteriji održivosti (EN 16751:2016)  
Bio-based products – Sustainability criteria (EN 16751:2016)

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

**HRN EN ISO 15366-1:2016 en pr**

Nuclear fuel technology – Chemical separation and purification of uranium and plutonium in nitric acid solutions for isotopic and isotopic dilution analysis by solvent extraction chromatography – Part 1: Samples containing plutonium in the microgram range and uranium in the milligram range (ISO 15366-1:2014; EN ISO 15366-1:2016)

**HRN EN ISO 15366-2:2016 en pr**

Nuclear fuel technology – Chemical separation and purification of uranium and plutonium in nitric acid solutions for isotopic and isotopic dilution analysis by solvent extraction chromatography – Part 2: Samples containing plutonium and uranium in the nanogram range and below (ISO 15366-2:2014; EN ISO 15366-2:2016)

**HRN EN ISO 15646:2016 en pr**

Re-sintering test for UO<sub>2</sub>, (U,Gd)O<sub>2</sub> and (U,Pu)O<sub>2</sub> pellets (ISO 15646:2014; EN ISO 15646:2016)

**HRN EN ISO 16641:2016 en pr**

Measurement of radioactivity in the environment – Air – Radon 220: Integrated measurement methods for the determination of the average activity concentration using passive solid-state nuclear track detectors (ISO 16641:2014; EN ISO 16641:2016)

**HRN EN 16774:2016 en pr**

Sigurnost strojeva – Sigurnosni zahtjevi za čelične konverte i pripadajuću opremu (EN 16774:2016)  
Safety of machinery – Safety requirements for steel converter and associated equipment  
(EN 16774:2016)

**HRN EN ISO 18589-7:2016 en pr**

Measurement of radioactivity in the environment – Soil – Part 7: In situ measurement of gamma-emitting radionuclides (ISO 18589-7:2013; EN ISO 18589-7:2016)

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

### **HRN EN ISO 13383-1:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Microstructural characterization – Part 1: Determination of grain size and size distribution (ISO 13383-1:2012; EN ISO 13383-1:2016)

### **HRN EN ISO 13383-2:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Microstructural characterization – Part 2: Determination of phase volume fraction by evaluation of micrographs (ISO 13383-2:2012; EN ISO 13383-2:2016)

### **HRN EN ISO 14544:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at high temperature – Determination of compression properties (ISO 14544:2013; EN ISO 14544:2016)

### **HRN EN ISO 14574:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at high temperature – Determination of tensile properties (ISO 14574:2013; EN ISO 14574:2016)

### **HRN EN ISO 14604:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods of test for ceramic coatings – Determination of fracture strain (ISO 14604:2012; EN ISO 14604:2016)

### **HRN EN ISO 14629:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of flowability of ceramic powders (ISO 14629:2012; EN ISO 14629:2016)

### **HRN EN ISO 17140:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at room temperature – Determination of fatigue properties at constant amplitude (ISO 17140:2014; EN ISO 17140:2016)

### **HRN EN ISO 17142:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at high temperature in air at atmospheric pressure – Determination of fatigue properties at constant amplitude (ISO 17142:2014; EN ISO 17142:2016)

### **HRN EN ISO 17161:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Ceramic composites – Determination of the degree of misalignment in uniaxial mechanical tests (ISO 17161:2014; EN ISO 17161:2016)

### **HRN EN ISO 18452:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of thickness of ceramic films by contact-probe profilometer (ISO 18452:2005; EN ISO 18452:2016)

### **HRN EN ISO 20502:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of adhesion of ceramic coatings by scratch testing (ISO 20502:2005, including Cor 1:2009; EN ISO 20502:2016)

### **HRN EN ISO 20504:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for compressive behaviour of continuous fibre-reinforced composites at room temperature (ISO 20504:2006; EN ISO 20504:2016)

**HRN EN ISO 23145-1:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of bulk density of ceramic powders – Part 1: Tap density (ISO 23145-1:2007; EN ISO 23145-1:2016)

**HRN EN ISO 23145-2:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of bulk density of ceramic powders – Part 2: Untapped density (ISO 23145-2:2012; EN ISO 23145-2:2016)

**HRN EN ISO 23146:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Test methods for fracture toughness of monolithic ceramics – Single-edge V-notch beam (SEVNB) method (ISO 23146:2012; EN ISO 23146:2016)

**HRN EN ISO 26423:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of coating thickness by crater-grinding method (ISO 26423:2009; EN ISO 26423:2016)

**HRN EN ISO 26424:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of the abrasion resistance of coatings by a micro-scale abrasion test (ISO 26424:2008; EN ISO 26424:2016)

**HRN EN ISO 26443:2016 en pr**

Fine ceramics (advanced ceramics, advanced technical ceramics) – Rockwell indentation test for evaluation of adhesion of ceramic coatings (ISO 26443:2008; EN ISO 26443:2016)

**HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1****HRN EN ISO 2157:2016 en pr**

Stomatologija – Nazivni promjeri i brojčane oznake za rotirajuće instrumente (ISO 2157:2016; EN ISO 2157:2016)

Dentistry – Nominal diameters and designation code numbers for rotary instruments (ISO 2157:2016; EN ISO 2157:2016)

**HRN EN ISO 3950:2016 en pr**

Stomatologija – Sustav označivanja zuba i područja usne šupljine (ISO 3950:2016; EN ISO 3950:2016)

Dentistry – Designation system for teeth and areas of the oral cavity (ISO 3950:2016; EN ISO 3950:2016)

**HRN EN ISO 7787-1:2016 en pr**

Stomatologija – Laboratorijski rezači – 1. dio: Čelični laboratorijski rezači (ISO 7787-1:2016; EN ISO 7787-1:2016)

Dentistry – Laboratory cutters – Part 1: Steel laboratory cutters (ISO 7787-1:2016; EN ISO 7787-1:2016)

**HRN EN ISO 8537:2016 en pr**

Sterilne jednokratne šprice, s iglom ili bez igle, za inzulin (ISO 8537:2016; EN ISO 8537:2016)

Sterile single-use syringes, with or without needle, for insulin (ISO 8537:2016; EN ISO 8537:2016)

**HRN EN ISO 18556:2016 en pr**

Stomatologija – Intraoralne špatule (ISO 18556:2016; EN ISO 18556:2016)

Dentistry – Intraoral spatulas (ISO 18556:2016; EN ISO 18556:2016)

**HRN EN ISO 18739:2016 en pr**

Stomatologija – Terminološki rječnik lanca procesa za CAD/CAM sustave (ISO 18739:2016; EN ISO 18739:2016)

Dentistry – Vocabulary of process chain for CAD/CAM systems (ISO 18739:2016; EN ISO 18739:2016)

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

### **HRN EN 3909:2016 en pr**

Zrakoplovstvo – Ispitni fluidi i metode ispitivanja za električne i optičke dijelove i podsklopove (EN 3909:2016)

Aerospace series – Test fluids and test methods for electrical and optical components and sub-assemblies (EN 3909:2016)

### **HRN EN 4165-001:2015/Ispr.2:2016 en pr**

Zrakoplovstvo – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – Dio 001: Tehnička specifikacija (EN 4165-001:2015/AC:2016)

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 001: Technical specification (EN 4165-001:2015/AC:2016)

### **HRN EN 4165-002:2015/Ispr.1:2016 en pr**

Zrakoplovstvo – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – Dio 002: Specifikacije značajki i položaj kontakta (EN 4165-002:2015/AC:2016)

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 002: Specification of performance and contact arrangements (EN 4165-002:2015/AC:2016)

### **HRN EN 4644-003:2016 en pr**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 003: Kvadratni umeci – Norma za proizvod (EN 4644-003:2016)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 003: Rectangular inserts – Product standard (EN 4644-003:2016)

### **HRN EN 4644-133:2016 en pr**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 133. dio: Utičnica veličine 3 za priključnu ploču utaknutu u okvir, razreda C i D – Norma za proizvod (EN 4644-133:2016)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 133: Size 3 receptacle for rack and panel application, class C and D – Product Standard (EN 4644-133:2016)

### **HRN EN 4644-141:2016 en pr**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 141: Utikač veličine 4 za priključne ploče utaknute u okvir, razreda C i D – Norma za proizvod (EN 4644-141:2016)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 141: Size 4 plug for rack and panel applications, class C and D – Product standard (EN 4644-141:2016)

### **HRN EN 4697:2016 en pr**

Zrakoplovstvo – Opći zahtjevi i zahtjevi za ugradnju opreme putničkih sjedala (EN 4697:2016)

Aerospace series – General and installation requirements for passenger seat fittings (EN 4697:2016)

### **HRN EN 4700-002:2016 en pr**

Zrakoplovstvo – Čelik i legure otporne na toplinu – Gnježeni proizvodi – Tehnička specifikacija – Dio 002: Šipke i profili (EN 4700-002:2016)

Aerospace series – Steel and heat resisting alloys – Wrought products – Technical specification – Part 002: Bar and section (EN 4700-002:2016)

**HRN EN 6049-009:2016 en pr**

Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – Dio 009: Samoomatajuća protupožarna zaštitna navlaka, prilagodljiva, za naknadnu ugradnju, radne temperature od -55 °C do 260 °C – Norma za proizvod (EN 6049-009:2016)  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 009: Self-wrapping fire protection sleeve, flexible, post installation, operating temperature from -55 °C to 260 °C – Product standard (EN 6049-009:2016)

**HRN EN 9239:2016 en pr**

Zrakoplovstvo – Upravljanje programom – Upute za upravljanje rizikom (EN 9239:2016)  
Aerospace series – Programme Management – Guide for the risk management (EN 9239:2016)

**HN/TU U1, Opća elektrotehnika 1****HRS CLC/TS 50625-3-2:2016 en pr**

Zahtjevi za prikupljanje, logistiku i obradu otpadne električne i elektroničke opreme (WEEE) – Dio 3-2: Tehnička specifikacija za uklanjanje onečišćenja – Svjetiljke (CLC/TS 50625-3-2:2016)  
Collection, logistics & Treatment requirements for WEEE – Part 3-2: Technical specification for de-pollution – Lamps (CLC/TS 50625-3-2:2016)

**HRN EN 60695-1-20:2016 en pr**

Ispitivanje opasnosti od požara – Dio 1-20: Upute za procjenu opasnost od požara za elektrotehničke proizvode – Zapaljivost – Opće upute (IEC 60695-1-20:2016; EN 60695-1-20:2016)  
Fire hazard testing – Part 1-20: Guidance for assessing the fire hazard of electrotechnical products – Ignitability – General guidance (IEC 60695-1-20:2016; EN 60695-1-20:2016)

**HRN EN 61788-4:2016 en pr**

Supravodljivost – 4. dio: Preostalo mjerjenje omjera otpora – Preostali omjer otpora Nb-Ti i Nb<sub>3</sub>Sn kompozitnih supravodiča (IEC 61788-4:2016; EN 61788-4:2016)  
Superconductivity – Part 4: Residual resistance ratio measurement – Residual resistance ratio of Nb-Ti and Nb<sub>3</sub>Sn composite superconductors (IEC 61788-4:2016; EN 61788-4:2016)

**HN/TU V1, Elektronika 1****HRN EN 50290-2-33:2016 en pr**

Komunikacijski kabeli – Dio 2-33: Opća pravila konstruiranja i izrada – Polietilenska izolacijska smjesa za mnogočiće metalne kable za instalaciju u zatvorenom prostoru (data cable)  
(preN 50290-2-33:2013)  
Communication cables – Part 2-33: Common design rules and construction – Polyethylene insulation compounds for multi element metallic cables for indoor installation (data cable)  
(preN 50290-2-33:2013)

**HRN EN 50290-2-37:2016 en pr**

Komunikacijski kabeli – Dio 2-37: Opća pravila konstruiranja i izrada – Polietilenska izolacija za koaksijalne kable (EN 50290-2-37:2016)  
Communication cables – Part 2-37: Common design rules and construction – Polyethylene insulation for coaxial cables (EN 50290-2-37:2016)

**HRN EN 50290-2-38:2016 en pr**

Komunikacijski kabeli – Dio 2-38: Opća pravila konstruiranja i izrada – Polipropilenska izolacija za koaksijalne kable (EN 50290-2-38:2016)  
Communication cables – Part 2-38: Common design rules and construction – Polypropylene insulation for coaxial cables (EN 50290-2-38:2016)

**HRN EN 60384-14-1:2016 en pr**

Fixed capacitors for use in electronic equipment – Part 14-1: Blank detail specification – Fixed capacitors for electromagnetic interference suppression and connection to the supply mains – Assessment level DZ (IEC 60384-14-1:2016; EN 60384-14-1:2016)

**HRN EN 60384-14:2014/Ispr.1:2016 en pr**

Fixed capacitors for use in electronic equipment – Part 14: Sectional specification – Fixed capacitors for electromagnetic interference suppression and connection to the supply mains  
(IEC 60384-14:2013/Corr.1:2016; EN 60384-14:2013/AC:2016-04)

**HRN EN 60384-14-2:2016 en pr**

Fixed capacitors for use in electronic equipment – Part 14-2: Blank detail specification – Fixed capacitors for electromagnetic interference suppression and connection to the supply mains – Safety tests only (IEC 60384-14-2:2016; EN 60384-14-2:2016)

**HRN EN 60393-2:2016 en pr**

Potentiometers for use in electronic equipment – Part 2: Sectional specification – Lead-screw actuated and rotary preset potentiometers (IEC 60393-2:2015; EN 60393-2:2016)

**HRN EN 60393-5:2016 en pr**

Potentiometers for use in electronic equipment – Part 5: Sectional specification – Single-turn rotary low-power wirewound and nonwirewound potentiometers (IEC 60393-5:2015; EN 60393-5:2016)

**HRN EN 60393-6:2016 en pr**

Potentiometers for use in electronic equipment – Part 6: Sectional specification – Surface mount preset potentiometers (IEC 60393-6:2015; EN 60393-6:2016)

**HRN EN 60603-7-81:2016 en pr**

Connectors for electronic equipment – Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 MHz (IEC 60603-7-81:2015; EN 60603-7-81:2016)

**HRN EN 60794-3-70:2016 en pr**

Optical Cables – Part 3.70: Family specification for outdoor optical fibre cables for rapid/multiple deployment (IEC 60794-3-70:2016; EN 60794-3-70:2016)

**HRN EN 60939-3:2016/Ispr.1:2016 en pr**

Passive filter units for electromagnetic interference suppression – Part 3: Passive filter units for which safety tests are appropriate (IEC 60939-3:2015/Corr.1:2016; EN 60939-3:2015/AC:2016-04)

**HRN EN 61189-3-719:2016 en pr**

Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 3-719: Test methods for interconnection structures (printed boards) – Monitoring of single plated-through hole (PTH) resistance change during thermal cycling (IEC 61189-3-719:2016; EN 61189-3-719:2016)

**HRN EN 61291-2:2016 en pr**

Optical amplifiers – Part 2: Single channel applications – Performance specification template (IEC 61291-2:2016; EN 61291-2:2016)

**HRN EN 61753-381-2:2016 en pr**

Fibre optic interconnecting devices and passive components – Performance standard – Part 381-2: Cyclic arrayed waveguide grating – Category C (controlled environment) (IEC 61753-381-2:2016; EN 61753-381-2:2016)

**HRN EN 61753-381-6:2016 en pr**

Fibre optic interconnecting devices and passive components – Performance standard – Part 381-6: Cyclic arrayed waveguide grating – Category O (uncontrolled environment) (IEC 61753-381-6:2016; EN 61753-381-6:2016)

**HRN EN 61754-31:2016 en pr**

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 31: Type N-FO connector family (IEC 61754-31:2016; EN 61754-31:2016)

**HRN EN 62047-1:2016 en pr**

Semiconductor devices – Micro-electromechanical devices – Part 1: Terms and definitions  
(IEC 62047-1:2016; EN 62047-1:2016)

**HRN EN 62047-26:2016 en pr**

Semiconductor devices – Micro-electromechanical devices – Part 26: Description and measurement methods for micro trench and needle structures (IEC 62047-26:2016; EN 62047-26:2016)

**HRN EN 62129-1:2016 en pr**

Calibration of wavelength/optical frequency measurement instruments – Part 1: Optical spectrum analyzers (IEC 62129-1:2016; EN 62129-1:2016)

**HRN EN 62153-4-7:2016/Ispr.1:2016 en pr**

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 62153-4-7:2015/Corr.1:2016; EN 62153-4-7:2016/AC:2016-05)

**HRN EN 62326-20:2016 en pr**

Printed boards – Part 20: Printed circuit board for high-brightness LEDs (IEC 62326-20:2016; EN 62326-20:2016)

**HRN EN 62343-4-1:2016 en pr**

Dynamic modules – Part 4-1: Software and hardware interface – 1 x 9 wavelength selective switch  
(IEC 62343-4-1:2016; EN 62343-4-1:2016)

**HRN EN 62572-3:2016 en pr**

Fibre optic active components and devices – Reliability standards – Part 3: Laser modules used for telecommunication (IEC 62572-3:2016; EN 62572-3:2016)

**HRN EN 62575-1:2016 en pr**

Radio frequency (RF) bulk acoustic wave (BAW) filters of assessed quality – Part 1: Generic specification (IEC 62575-1:2015; EN 62575-1:2016)

**HRN EN 62779-1:2016 en pr**

Poluvodičke komponente – Poluvodičko sučelje za komunikaciju s ljudskim tijelom – 1. dio: Opći zahtjevi (IEC 62779-1:2016; EN 62779-1:2016)  
Semiconductor devices – Semiconductor interface for human body communication – Part 1: General requirements (IEC 62779-1:2016; EN 62779-1:2016)

**HRN EN 62779-2:2016 en pr**

Poluvodičke komponente – Poluvodičko sučelje za komunikaciju s ljudskim tijelom – 2. dio:  
Karakterizacija značajki sučelja (IEC 62779-2:2016; EN 62779-2:2016)  
Semiconductor devices – Semiconductor interface for human body communication – Part 2: Characterization of interfacing performances (IEC 62779-2:2016; EN 62779-2:2016)

**HZN/TU W1, Energetska elektrotehnika 1****HRN EN 50244:2016 en pr**

Električna oprema za otkrivanje zapaljivih plinova u kućanskim prostorima – Upute za odabir, postavljanje, uporabu i održavanje (EN 50244:2016)  
Electrical apparatus for the detection of combustible gases in domestic premises – Guide on the selection, installation, use and maintenance (EN 50244:2016)

**HRN EN 62841-2-11:2016 en pr**

Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-11: Posebni zahtjevi za ručne pile s unutarnjim izgaranjem (IEC 62841-2-11:2015; EN 62841-2-11:2016)  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-11: Particular requirements for hand-held reciprocating saws (IEC 62841-2-11:2015; EN 62841-2-11:2016)

**HRN EN 62877-1:2016 en pr**

Elektrolit i voda za ventilirane olovne akumulatore – 1. dio: Zahtjevi za elektrolit (IEC 62877-1:2016; EN 62877-1:2016)

Electrolyte and water for vented lead acid accumulators – Part 1: Requirements for electrolyte (IEC 62877-1:2016; EN 62877-1:2016)

**HRN EN 62877-2:2016 en pr**

Elektrolit i voda za ventilirane olovne akumulatore – 2. dio: Zahtjevi za vodu (IEC 62877-2:2016; EN 62877-2:2016)

Electrolyte and water for vented Lead Acid accumulators – Part 2: Requirements for water (IEC 62877-2:2016; EN 62877-2:2016)

### **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 označku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

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

**FPrEN ISO 8254-2 en**

Paper and board – Measurement of specular gloss – Part 2: 75 degree gloss with a parallel beam, DIN method (ISO/FDIS 8254-2:2016)

Papir i karton – Mjerenje zrcalnog sjaja – 2. dio: 75° sjaj s paralelnim snopom, DIN metoda (ISO/FDIS 8254-2:2016)

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

**ISO 7364:2016 en**

Ships and marine technology – Deck machinery – Accommodation ladder winches

Brodovi i pomorska tehnologija – Palubni strojevi – Vitla siza

**ISO 15364:2016 en**

Ships and marine technology – Pressure/vacuum valves for cargo tanks

Brodovi i pomorska tehnologija – Tlačno/vakuumski ventili za spremnike tereta

**ISO 22090-2:2014 en**

Ships and marine technology – Transmitting heading devices (THDs) – Part 2: Geomagnetic principles

Brodovi i pomorska tehnologija – Uređaji za prijenos kursa (THDs) – 2. dio: Geomagnetska načela

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

**PrEN 12094-8 en**

Fixed firefighting systems – Components for gas extinguishing systems – Part 8: Requirements and test methods for connectors

Stabilni protupožarni sustavi – Dijelovi sustava za gašenje plinom – 8. dio: Zahtjevi i ispitne metode za spojnice

**PrEN 12094-11 en**

Fixed firefighting systems – Components for gas extinguishing systems – Part 11: Requirements and test methods for mechanical weighing devices

Protupožarni sustavi – Dijelovi sustava za gašenje plinom – 11. dio: Zahtjevi i ispitne metode za mehaničke uređaje za vaganje

**prEN 12094-13 en**

Fixed firefighting systems – Components for gas extinguishing systems – Part 13: Requirements and test methods for check valves and non-return valves

Protupožarni sustavi – Dijelovi sustava za gašenje plinom – 13. dio: Zahtjevi i ispitne metode za nepovratne i protupovratne ventile

**HZN/TO 22, Cestovna vozila****ISO 3537:2015 en**

Road vehicles – Safety glazing materials – Mechanical tests  
Cestovna vozila – Sigurnosna stakla – Mehanička ispitivanja

**ISO 4000-1:2015 en**

Passenger car tyres and rims – Part 1: Tyres (metric series)  
Gume i naplatci za osobne automobile – 1. dio: Gume (milimetarski nizovi)

**ISO 6519:2015 en**

Diesel engines – Fuel injection pumps – Tapers for shaft ends and hubs  
Dizelski motori – Pumpe za ubrizgavanje goriva – Stošci za završetke vratila i glavine

**ISO 8820-3:2015 en**

Road vehicles – Fuse-links – Part 3: Fuse-links with tabs (blade type) Type C (medium), Type E (high current) and Type F (miniature)  
Cestovna vozila – Ulošci osigurača – 3. dio: Ulošci osigurača sa stopicama (nožastoga tipa) tipa C (srednje struje), tipa E (velike struje) i tipa F (vrlo male struje)

**ISO 11451-1:2015 en**

Road vehicles – Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 1: General principles and terminology  
Cestovna vozila – Metode ispitivanja vozila na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 1. dio: Opća načela i nazivlje

**ISO 11451-2:2015 en**

Road vehicles – Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Off-vehicle radiation sources  
Cestovna vozila – Metode ispitivanja vozila na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 2. dio: Izvori zračenja izvan vozila

**ISO 11451-3:2015 en**

Road vehicles – Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 3: On-board transmitter simulation  
Cestovna vozila – Metode ispitivanja vozila na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 3. dio: Simulacija smetnja od odašiljača smještenih u vozilo

**ISO 11452-1:2015 en**

Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 1: General principles and terminology  
Cestovna vozila – Metode ispitivanja sastavnica na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 1. dio: Opća načela i nazivlje

**ISO 13948-1:2015 en**

Diesel engines – Fuel injection pumps and fuel injector low-pressure connections – Part 1: Threaded connections  
Dizelski motori – Niskotlačni priključci na pumpama za ubrizgavanje goriva i ubrizgačima goriva – 1. dio: Navojni priključci

**ISO 23671:2015 en**

Passenger car tyres – Method for measuring relative wet grip performance – Loaded new tyres  
Gume za osobne automobile – Metoda mjerena relativne značajke mokroga prianjanja – Opterećene nove gume

**HZN/TO 23, Traktori i strojevi za poljoprivredu i šumarstvo****prEN ISO 8437-1 en**

Snow throwers – Safety requirements and test procedures – Part 1: Terminology and common tests  
(ISO/DIS 8437-1:2016)  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 1. dio: Nazivlje i opća ispitivanja  
(ISO/DIS 8437-1:2016)

**prEN ISO 8437-2 en**

Snow throwers – Safety requirements and test procedures – Part 2: Pedestrian controlled snow throwers (ISO/DIS 8437-2:2016)  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 2. dio: Ručno upravljeni bacači snijega  
(ISO/DIS 8437-2:2016)

**prEN ISO 8437-3 en**

Snow throwers – Safety requirements and test procedures – Part 3: Ride-on snow throwers  
(ISO/DIS 8437-3:2016)  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 3. dio: Bacači snijega na kojima se sjedi  
(ISO/DIS 8437-3:2016)

**prEN ISO 8437-4 en**

Snow throwers – Safety requirements and test procedures – Part 4: Information on national and regional provisions (ISO/DIS 8437-4:2016)  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 4. dio: Informacije o nacionalnim i regionalnim odredbama (ISO/DIS 8437-4:2016)

**EN ISO 11681-2:2011/prA1 en**

Machinery for forestry – Portable chain-saw safety requirements and testing – Part 2: Chain-saws for tree service (ISO 11681-2:2011/DAM 1:2016)  
Šumarska mehanizacija – Sigurnosni zahtjevi i ispitivanje prijenosnih motornih pila – 2. dio: Motorne pile za njegu stabala (ISO 11681-2:2011/DAM 1:2016)

**HZN/TO 28, Naftni proizvodi i maziva****prEN 1601 en**

Liquid petroleum products – Determination of organic oxygenate compounds and total organically bound oxygen content in unleaded petrol - Method by gas chromatography (O-FID)

**prEN 15984 en**

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

**prEN 16997 en**

Liquid petroleum product – Determination of the sulfur content in ethanol containing petrol E85 – Wavelength dispersive X-ray fluorescence spectrometric method

## **HN/T 35, Boje i lakovi**

### **prEN ISO 12944-4 en**

Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 4: Types of surface and surface preparation (ISO/DIS 12944-4:2016)  
Boje i lakovi – Zaštita od korozije čeličnih konstrukcija zaštitnim sustavom boja – 4. dio: Vrste površina i priprema površina (ISO/DIS 12944-4:2016)

### **prEN ISO 12944-5 en**

Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 5: Protective paint systems (ISO/DIS 12944-5:2016)  
Boje i lakovi – Zaštita od korozije čeličnih konstrukcija zaštitnim sustavima boja – 5. dio: Zaštitni sustavi boja (ISO/DIS 12944-5:2016)

### **prEN ISO 12944-8 en**

Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 8: Development of specifications for new work and maintenance (ISO/DIS 12944-8:2016)  
Boje i lakovi – Zaštita od korozije čeličnih konstrukcija zaštitnim sustavima boja – 8. dio: Razvoj specifikacija za nove radove i održavanje (ISO/DIS 12944-8:2016)

### **prEN ISO 12944-9 en**

Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 9: Protective paint systems and laboratory performance test methods for offshore and related structures (ISO/DIS 12944-9:2016)  
Boje i lakovi – Zaštita od korozije čeličnih konstrukcija zaštitnim sustavima boja – 9. dio: Zaštitni sustavi boja i metode laboratorijskih ispitivanja svojstava za odobalne i povezane objekte (ISO/DIS 12944-9:2016)

### **prEN 13523-8 en**

Coil coated metals – Test methods – Part 8: Resistance to salt spray (fog)  
Metali zaštićeni trakom – Metode ispitivanja – 8. dio: Otpornost na slanu maglu

### **prEN 13523-21 en**

Coil coated metals – Test methods – Part 21: Evaluation of outdoor exposed panels  
Metali zaštićeni trakom – Metode ispitivanja – 21. dio: Ocjena ploča izloženih vanjskim utjecajima

### **prEN 13523-24 en**

Coil coated metals – Test methods – Part 24: Resistance to blocking and pressure marking  
Metali zaštićeni trakom – Metode ispitivanja – 24. dio: Otpornost na sljepljivanje i oštećenja pod pritiskom

### **prEN ISO 15110 en**

Paints and varnishes – Artificial weathering including acidic deposition (ISO/DIS 15110:2016)  
Boje i lakovi – Umjetno starenje uključujući kiselinsko taloženje (ISO/DIS 15110:2016)

## **HN/T 43, Akustika**

### **EN ISO 16283-1:2014/prA1 en**

Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation (ISO 16283-1:2014/DAmd 1:2016)  
Akustika – Terensko mjerjenje zvučne izolacije zgrada i građevnih dijelova zgrade – 1. dio: Zračna zvučna izolacija (ISO 16283-1:2014/DAmd 1:2016)

## **HN/T 44, Zavarivanje i srođni postupci**

### **prEN 1395-5 en**

Thermal spraying – Acceptance inspection of thermal spraying equipment – Part 5: Plasma spraying in chambers

Toplinsko naštrcavanje – Pregled pri preuzimanju opreme za toplinsko naštrcavanje – 5. dio:  
Naštrcavanje plazmom u komorama

### **prEN 13507 en**

Thermal spraying – Pre-treatment of surfaces of metallic parts and components for thermal spraying  
Toplinsko naštrcavanje – Priprema površina metalnih dijelova i komponenata za toplinsko  
naštrcavanje

### **prEN ISO 15653 en**

Metallic materials – Method of test for the determination of quasistatic fracture toughness of welds  
(ISO/DIS 15653:2016)

Metalni materijali – Metoda ispitivanja za određivanje nazovistatične lomne žilavosti zavara  
(ISO/DIS 15653:2016)

### **prEN 17001 en**

Thermal spraying – Components with thermally sprayed coatings – Coating specification

Toplinsko naštrcavanje – Komponente s toplinski naštrcanim prevlakama – Specifikacija prevlaka

### **prEN 17002 en**

Thermal spraying – Components with thermally sprayed coatings – Thermal spray procedure  
specification

Toplinsko naštrcavanje – Komponente s toplinski naštrcanim prevlakama – Specifikacija postupka  
toplinskim naštrcavanjem

### **prEN ISO 17279-1 en**

Welding – Micro joining of 2nd generation high temperature superconductors – Part 1: General  
requirements for the procedure (ISO/DIS 17279-1:2016)

Zavarivanje – Mikrospajanje druge generacije visokotemperaturnih supravodiča – 1. dio: Opći zahtjevi  
za postupak (ISO/DIS 17279-1:2016)

### **prEN ISO 17279-2 en**

Welding – Micro joining of 2nd generation high temperature superconductors – Part 2: Qualification for  
welding and testing personnel (ISO/DIS 17279-2:2016)

Zavarivanje – Mikrospajanje druge generacije visokotemperaturnih supravodiča – 2. dio: Kvalifikacija  
zavarivačkog i ispitnog osoblja (ISO/DIS 17279-2:2016)

### **prEN ISO 17640 en**

Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels, and assessment  
(ISO/DIS 17640:2016)

Nerazorno ispitivanje zavara – Ultrazvučno ispitivanje – Tehnike, razine ispitivanja i ocjenjivanje  
(ISO/DIS 17640:2016)

### **prEN ISO 18278-3 en**

Resistance welding – Weldability – Part 3: Evaluation procedures for weldability in spot weld bonding  
(ISO/DIS 18278-3:2016)

Elektrotoporno zavarivanje – Zavarljivost – 3. dio: Postupci vrednovanja zavarljivosti pri točkastom  
zavarivanju (ISO/DIS 18278-3:2016)

## **HN/T 46, Bibliotekarstvo, dokumentacija i informacije**

### **ISO 15489-1:2016 en**

Information and documentation – Records management – Part 1: Concepts and principles

Informacije i dokumentacija – Upravljanje spisima – 1. dio: Koncepti i načela

## **HN/T 71, Beton**

### **prEN 1504-4 en**

Products and systems for the protection and repair of concrete – Definitions, requirements, quality control and evaluation of conformity – Part 4: Structural bonding  
Proizvodi i sustavi za zaštitu i popravak betona – Definicije, zahtjevi, kontrola kvalitete i vrednovanje sukladnosti – 4. dio: Konstrukcijsko lijepljenje

## **HN/T 74, Cement i vapno**

### **FprEN 196-3 en**

Methods of testing cement – Part 3: Determination of setting times and soundness  
Metode ispitivanja cementa – 3. dio: Određivanje vremena vezivanja i postojanosti volumena

### **CEN/TS 12390-9:2016 en**

Testing hardened concrete – Part 9: Freeze-thaw resistance – Scaling – Complementary element  
Ispitivanje očvrsnuloga betona – 9. dio: Otpornost na smrzavanje i odmrzavanje – Ljuštenje – Dospunski element

### **CEN/TR 16912:2016 en**

Guidelines for a procedure to support the European standardization of cements  
Smjernice za postupak potpore europskoj normizaciji za cement

## **HN/T 86, Uređaji za hlađenje, klimatizaciju i dizalice topline**

### **FprEN 12178 en**

Refrigerating systems and heat pumps – Liquid level indicating devices – Requirements, testing and marking  
Rashladni sustavi i dizalice topline – Indikatori razine kapljevine – Zahtjevi, ispitivanje i označivanje

### **prEN ISO 14903 en**

Refrigerating systems and heat pumps – Qualification of tightness of components and joints  
(ISO/DIS 14903:2016)  
Rashladni sustavi i dizalice topline – Kvalifikacija nepropusnosti dijelova i spojeva  
(ISO/DIS 14903:2016)

## **HN/T 92, Zaštita od požara**

### **prEN 1364-6 en**

Fire resistance tests for non-loadbearing elements – Part 6: Cavity Barriers  
Ispitivanja otpornosti na požar nenosivih elemenata – 6. dio: Prepreke za širenje požara u šupljinama

### **prEN ISO 13943 en**

Fire safety – Vocabulary (ISO/DIS 13943:2016)  
Zaštita od požara – Terminološki rječnik (ISO/DIS 13943:2016)

## **HN/T 116, Uređaji i oprema za izmjenu topline**

### **prEN 303-1 en**

Heating boilers – Part 1: Heating boilers with forced draught burners – Terminology, general requirements, testing and marking  
Toplovodni kotlovi – 1. dio: Toplovodni kotlovi s predtlačnim plamenikom – Nazivlje, opći zahtjevi, ispitivanja i označivanja

**prEN 303-2 en**

Heating boilers – Part 2: Heating boilers with forced draught burners – Special requirements for boilers with atomizing oil burners

Toplovodni kotlovi – 2. dio: Toplovodni kotlovi s predtlačnim plamenikom – Posebni zahtjevi za kotlove s predtlačnim plamenicima na raspršeno ulje

**prEN 304 en**

Heating boilers – Test code for heating boilers for atomizing oil burners

Toplovodni kotlovi – Postupak ispitivanja toplovodnih kotlova s predtlačnim plamenikom na raspršeno ulje

**HN/T 120, Koža i obuća****EN ISO 10734:2016 en**

Footwear – Test method for slide fasteners – Strength of slide fastener pullers (ISO 10734:2016)

Obuća – Metoda ispitivanja patent zatvarača – Čvrstoča potezača patent zatvarača (ISO 10734:2016)

**prEN ISO 10750 en**

Footwear – Test method for slide fasteners – Attachment strength of end stops (ISO 10750:2015)

**EN ISO 10751:2016 en**

Footwear – Test methods for slide fasteners – Resistance to repeated opening and closing

(ISO 10751:2016)

Obuća – Metoda ispitivanja patent zatvarača – Otpornost na uzastopno otvaranje i zatvaranje  
(ISO 10751:2016)

**EN ISO 10764:2016 en**

Footwear – Test methods for slide fasteners – Lateral strength (ISO 10764:2016)

Obuća – Metoda ispitivanja patent zatvarača – Lateralna čvrstoča (ISO 10764:2016)

**HN/T 130, Grafička tehnologija****ISO 5776:2016 en**

Graphic technology – Symbols for text proof correction

Grafička tehnologija – Simboli za ispravljanje teksta

**HN/T 134, Gnojiva i poboljšivači tla****prEN 13368-2 en**

Fertilizers – Determination of chelating agents in fertilizers by chromatography – Part 2: Determination of Fe chelated by [o,o] EDDHA, [o,o] EDDHMA and HBED, or the amount of chelating agents, by ion pair chromatography

Gnojiva – Određivanje kelatnih agensa u gnojivima kromatografijom – 2. dio: Određivanje željeza keliranog s [o, o] EDDHA, [o, o] EDDHMA i HBED ili količine kelatnih agensa ionskom kromatografijom

**prEN 15961 en**

Fertilizers – Extraction of water-soluble calcium, magnesium, sodium and sulfur in the form of sulfates

Gnojiva – Ekstrakcija vodotopivog kalcija, magnezija, natrija i sumpora u obliku sulfata

**HN/T 138, Plastične cijevi, spojnice i ventili za prijenos tekućina****prEN 1852-1 en**

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 1: Specifications for pipes, fittings and the system

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 1. dio: Specifikacije za cijevi, spojnice i sustav

## **HN/T 146, Kvaliteta zraka**

### **prEN 689 en**

Workplace exposure – Measurement of exposure by inhalation to chemical agents – Strategy for testing compliance with occupational exposure limit values

Profesionalna izloženost – Mjerenje izloženosti udisanjem kemijskih agensa – Strategija za provjeru usklađenosti s graničnim vrijednostima profesionalne izloženosti

### **EN 15051-2:2013/FprA1 en**

Workplace exposure – Measurement of the dustiness of bulk materials – Part 2: Rotating drum method

Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala – 2. dio: Metoda rotirajućega bubnja

## **HN/T 147, Kvaliteta vode**

### **prEN ISO 20227 en**

Water quality – Determination of the growth inhibition effects of waste waters, natural waters and chemicals on the duckweed Spirodela polyrhiza – Method using a stock culture independent microbiotest (ISO/DIS 20227:2016)

Kvaliteta vode – Određivanje učinaka otpadnih voda, prirodnih voda i kemikalija na inhibiciju rasta višekorijenske barske leće Spirodela polyrhiza – Metoda uporabe mikrobiotesta neovisnog o ishodišnoj kulturi (ISO/DIS 20227:2016)

## **HN/T 159, Ergonomija**

### **prEN ISO 7250-1 en**

Basic human body measurements for technological design – Part 1: Body measurement definitions and landmarks (ISO/DIS 7250-1:2016)

Temeljna antropološka mjerenja ljudskog tijela za tehnološki dizajn – 1. dio: Definicije i obilježja antropoloških mjerenja (ISO/DIS 7250-1:2016)

### **prEN ISO 9241-125 en**

Ergonomics of human-system interaction – Part 125: Guidance on visual presentation of information (ISO/DIS 9241-125:2016)

Ergonomija međudjelovanja čovjek-sustav – Dio 125: Upute za vizualni prikaz informacija (ISO/DIS 9241-125:2016)

## **HN/T 165, Drvene konstrukcije**

### **prEN 14081-2 en**

Timber structures – Strength graded structural timber with rectangular cross section – Part 2: Machine grading, additional requirements for initial type testing

Drvene konstrukcije – Konstrukcijsko drvo pravokutnoga poprečnog presjeka razvrstano prema čvrstoći – 2. dio: Strojno razvrstavanje, dodatni zahtjevi za početno ispitivanje tipa

### **EN 14081-3:2012/prA1 en**

Timber structures – Strength graded structural timber with rectangular cross section – Part 3: Machine grading, additional requirements for factory production control

Drvene konstrukcije – Konstrukcijsko drvo pravokutnoga poprečnog presjeka razvrstano prema čvrstoći – 3. dio: Strojno razvrstavanje, dodatni zahtjevi za kontrolu tvorničke proizvodnje

### **prEN 14374 en**

Timber structures – Laminated veneer lumber (LVL) – Requirements

Drvene konstrukcije – Slojevito furnirsko drvo – Zahtjevi

## **HN/T 172, Optika i optički instrumenti**

### **prEN ISO 11554 en**

Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power, energy and temporal characteristics (ISO/DIS 11554:2016)

Optika i fotonika – Laseri i pridružena oprema – Ispitne metode za snagu, energiju i vremenske značajke laserskog snopa (ISO/DIS 11554:2016)

### **prEN ISO 18369-1 en**

Ophthalmic optics – Contact lenses – Part 1: Vocabulary, classification system and recommendations for labelling specifications (ISO/DIS 18369-1:2016)

Oftalmološka optika – Kontaktne leće – 1. dio: Terminološki rječnik, razredbeni sustav i preporuke za označivanje specifikacija (ISO/DIS 18369-1:2016)

### **prEN ISO 18369-2 en**

Ophthalmic optics – Contact lenses – Part 2: Tolerances (ISO/DIS 18369-2:2016)

Oftalmološka optika – Kontaktne leće – 2. dio: Tolerancije (ISO/DIS 18369-2:2016)

### **prEN ISO 18369-3 en**

Ophthalmic optics – Contact lenses – Part 3: Measurement methods (ISO/DIS 18369-3:2016)

Oftalmološka optika – Kontaktne leće – 3. dio: Metode mjeranja (ISO/DIS 18369-3:2016)

### **prEN ISO 18369-4 en**

Ophthalmic optics – Contact lenses – Part 4: Physicochemical properties of contact lens materials (ISO/DIS 18369-4:2016)

Oftalmološka optika – Kontaktne leće – 4. dio: Fizičkokemijska svojstva materijala kontaktnih leća (ISO/DIS 18369-4:2016)

## **HN/T 178, Dizala, pokretnе stube i pokretnе trake za osobe**

### **prEN 81-28 en**

Safety rules for the construction and installation of lifts – Lifts for the transport of persons and goods – Part 28: Remote alarm on passenger and goods passenger lifts

Sigurnosna pravila za konstrukciju i ugradnju dizala – Dizala za prijevoz osoba i tereta – 28. dio: Daljinska dojava opasnosti na osobnim i osobno teretnim dizalima

### **prEN 81-41 en**

Safety rules for the construction and installation of lifts – Special lifts for the transport of persons and goods – Part 41: Vertical lifting platforms intended for use by persons with impaired mobility

Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna dizala za prijevoz osoba i tereta – 41. dio: Vertikalne podizne platforme namijenjene osobama sa smanjenom pokretljivošću

## **HN/T 182, Geotehničke konstrukcije**

### **prEN ISO 14688-1 en**

Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description (ISO/DIS 14688-1:2016)

Geotehničko istraživanje i ispitivanje – Identifikacija i klasifikacija tla – 1. dio: Identifikacija i opis (ISO/DIS 14688-1:2016)

### **prEN ISO 14688-2 en**

Geotechnical investigation and testing – Identification and classification of soil – Part 2: Principles for a classification (ISO/DIS 14688-2:2016)

Geotehničko istraživanje i ispitivanje – Identifikacija i klasifikacija tla – 2. dio: Načela klasifikacije (ISO/DIS 14688-2:2016)

**prEN ISO 14689-1 en**

Geotechnical investigation and testing – Identification and classification of rock – Part 1: Identification and description (ISO/DIS 14689-1:2016)

Geotehničko istraživanje i ispitivanje – Identifikacija i klasifikacija stijene – 1. dio: Identifikacija i opis (ISO/DIS 14689-1:2016)

**prEN ISO 18674-3 en**

Geotechnical investigation and testing – Geotechnical monitoring by field instrumentation – Part 3: Measurement of displacements across a line: Inclinometers (ISO/DIS 18674-3:2016)

Geotehničko istraživanje i ispitivanje – Geotehničko opažanje terenskom mjernom opremom – 3. dio: Mjerenje pomaka okomito na liniju : Inklinometri (ISO/DIS 18674-3:2016)

**HZN/TO 190, Kvaliteta tla****prEN ISO 11272 en**

Soil quality – Determination of dry bulk density (ISO/DIS 11272:2016)

Kvaliteta tla – Određivanje volumne gustoće suhog tla (ISO/DIS 11272:2016)

**prEN ISO 19258 en**

Soil quality – Guidance on the determination of background values (ISO/DIS 19258:2016)

Kvaliteta tla – Upute za određivanje pozadinskih vrijednosti (ISO/DIS 19258:2016)

**HZN/TO 218, Drvo****prEN 14298 en**

Sawn timber – Assessment of drying quality

Piljeno drvo – Procjena kvalitete sušenja

**prEN 17009 en**

Flooring of lignified materials other than wood – Characteristics, evaluation of conformity and marking

**HZN/TO 219, Podne obloge****prEN 14041 en**

Resilient, textile and laminate floor coverings – Essential characteristics

**HZN/TO 228, Usluge u turizmu****ISO 13009:2015 en**

Tourism and related services – Requirements and recommendations for beach operation

Turističke i srodne usluge – Zahtjevi i preporuke za upravljanje plažama

**ISO 13687:2014 en**

Tourism and related services – Yacht harbours – Minimum requirements

Turističke i srodne usluge – Luke u nautičkom turizmu – Minimalni zahtjevi

**ISO 13810:2015 en**

Tourism services – Industrial tourism – Service provision

Usluge u turizmu – Industrijski turizam – Pružanje usluga

**ISO 14785:2014 en**

Tourist information offices – Tourist information and reception services – Requirements

Turistički informativni uredi – Turističke informacije i usluge prihvata turista – Zahtjevi

**ISO 17680:2015 en**

Tourism and related services – Thalassotherapy – Service requirements

Turističke i srodne usluge – Talasoterapija – Zahtjevi za usluge

**ISO 18065:2015 en**

Tourism and related services – Tourist services for public use provided by Natural Protected Areas Authorities – Requirements  
Turističke i srodne usluge – Turističke usluge javnih ustanova u zaštićenim područjima prirode namijenjene javnosti – Zahtjevi

**ISO 21101:2014 en**

Adventure tourism – Safety management systems – Requirements  
Pustolovni turizam – Sustavi upravljanja sigurnošću – Zahtjevi

**ISO/TR 21102:2013 en**

Adventure tourism – Leaders – Personnel competence  
Pustolovni turizam – Voditelji – Osobne kompetencije

**ISO 21103:2014 en**

Adventure tourism – Information for participants  
Pustolovni turizam – Informacije za sudionike

**HZN/TO 502, *Plinski uređaji*****EN 26:2015/prA1:2016 en**

Gas-fired instantaneous water heaters for the production of domestic hot water  
Plinske protočne grijalice vode za sanitarnu upotrebu

**EN 89:2015/prA1:2016 en**

Gas-fired storage water heaters for the production of domestic hot water  
Plinske akumulacijske grijalice vode za sanitarnu upotrebu

**prEN 203-2-7 en**

Gas heated catering equipment – Part 2-7: Specific requirements – Salamanders and rotisseries  
Plinski uređaji za velike kuhinje – Dio 2-7: Specifični zahtjevi – Salamander pećnice i roštilji s okretnim osovinama

**FprEN ISO 14532 en**

Natural gas – Vocabulary (ISO 14532:2014)  
Prirodni plin – Rječnik (ISO 14532:2014)

**prEN 16436-2 en**

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

**HZN/TO 503, *Metalni materijali*****FprEN 754-2 en**

Aluminium and aluminium alloys – Cold drawn rod/bar and tube – Part 2: Mechanical properties  
Aluminij i aluminijeve legure – Hladno vučene šipke i cijevi – 2. dio: Mehanička svojstva

**prEN ISO 6506-2 en**

Metallic materials – Brinell hardness test – Part 2: Verification and calibration of testing machines (ISO/DIS 6506-2:2016)

Metalni materijali – Ispitivanje tvrdoće prema Brinellu – 2. dio: Provjeravanje i umjeravanje ispitnih uređaja (ISO/DIS 6506-2:2016)

**prEN 10164 en**

Steel products with improved deformation properties perpendicular to the surface of the product – Technical delivery conditions  
Čelični proizvodi s poboljšanim svojstvima na deformaciju okomito na površinu proizvoda – Tehnički uvjeti isporuke

**prEN ISO 21809-5 rev en**

Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 5: External concrete coatings (ISO/DIS 21809-5:2016)  
Industrija naftne i zemnog plina – Vanjske prevlake za podzemne ili podvodne cjevovode za upotrebu u cjevovodnim transportnim sustavima – 5. dio: Vanjske betonske prevlake (ISO/DIS 21809-5:2016)

**HZN/TO 504, Korozija i zaštita metala i legura****prEN ISO 2081 en**

Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel (ISO/DIS 2081:2016)  
Metalne i ostale anorganske prevlake – Elektroplatirane cinčane prevlake na željezu ili čeliku s naknadnom obradom (ISO/DIS 2081:2016)

**prEN ISO 2082 en**

Metallic and other inorganic coatings – Electroplated coatings of cadmium with supplementary treatments on iron or steel (ISO/DIS 2082:2016)  
Metalne i ostale anorganske prevlake – Elektroplatirane kadmijске prevlake na željezu ili čeliku s naknadnom obradom (ISO/DIS 2082:2016)

**prEN ISO 2360 en**

Non-conductive coatings on non-magnetic electrically conductive base metals – Measurement of coating thickness – Amplitude-sensitive eddy-current method (ISO/DIS 2360:2016)  
Nevodljive prevlake na nemagnetskim električki vodljivim metalnim podlogama – Mjerenje debljine prevlake – Metoda vrtložnih struja, osjetljivih na promjenu amplitude (ISO/DIS 2360:2016)

**prEN ISO 9717 en**

Metallic and other inorganic coatings – Phosphate conversion coating of metals (ISO/DIS 9717:2016)  
Metalne i druge anorganske prevlake – Fosfatne konverzijske prevlake na metalima (ISO/DIS 9717:2016)

**prEN ISO 27830 en**

Metallic and other inorganic coatings – Guidelines for specifying metallic and inorganic coatings (ISO/DIS 27830:2016)  
Metalne i druge anorganske prevlake – Smjernice za specifikaciju metalnih i anorganskih prevlaka (ISO/DIS 27830:2016)

**HZN/TO 505, Prijenos i distribucija plina****prEN 334 en**

Gas pressure regulators for inlet pressure up to 100 bar  
Regulatori tlaka za ulazni tlak plina do 100 bara

**prEN 14382 en**

Gas safety shut-off devices for inlet pressure up to 100 bar  
Sigurnosni zaporni uređaji za ulazni tlak plin do 100 bara

**HZN/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu****prEN ISO 16664 en**

Gas analysis – Handling of calibration gases and gas mixtures – Guidelines (ISO/DIS 16664:2016)  
Analiza plina – Postupanje s plinovima i plinskim smjesama za umjeravanje – Upute (ISO/DIS 16664:2016)

## **HN/T 508, Ambalaža i pakiranje**

### **prEN 15007 en**

Aerosol containers – Tinplate containers – Dimensions of two and three-piece cans

Spremnici za aerosole – Pokositreni metalni spremnici – Dimenzije dvodijelnih i trodijelnih limenki

### **prEN 15008 en**

Aerosol containers – Aluminium containers – Dimensions of one-piece cans with 25,4 mm aperture

Spremnici za aerosole – Aluminjski spremnici – Dimenzije jednodijelnih limenki s otvorom 25,4 mm

### **prEN 15507 en**

Packaging – Transport packaging for dangerous goods – Comparative material testing of polyethylene grades

Ambalaža – Ambalaža za prijevoz opasnih tvari – Usporedno ispitivanje polietilenskih tipova materijala

## **HN/T 509, Cestovna oprema**

### **prEN 1436 en**

Road marking materials – Road marking performance for road users and test methods

Materijali za oznake na kolniku – Značajke nužne za korisnike ceste i metode ispitivanja

## **HN/T 513, Mjerne jedinice i mjerila**

### **ISO 9277:2010 en**

Determination of the specific surface area of solids by gas adsorption – BET method

Određivanje specifične površine krutine plinskom adsorpcijom – BET metoda

### **ISO/TR 9464:2008 en**

Guidelines for the use of ISO 5167:2003

Smjernice za primjenu ISO 5167:2003

### **ISO 10790:2015 en**

Measurement of fluid flow in closed conduits – Guidance to the selection, installation and use of Coriolis flowmeters (mass flow, density and volume flow measurements)

Mjerenje protoka fluida u zatvorenim cjevovodnim sustavima – Upute za odabir, ugradnju i uporabu Coriolis mjerila (mjerjenje masenog protoka, gustoće i obujamskog protoka)

### **ISO 13320:2009 en**

Particle size analysis – Laser diffraction methods

Analiza veličine čestica – Metode laserske difrakcije

### **ISO 13322-1:2014 en**

Particle size analysis – Image analysis methods – Part 1: Static image analysis methods

Analiza veličine čestica – Metode analize slike – 1. dio: Metode analize statičke slike

### **CEN/TR 15996:2010 en**

Hydrometry – Measurement of snow water equivalent using snow mass registration devices

Hidrometrija – Mjerenje ekvivalenta količine vode u snijegu pomoću uređaja za bilježenje mase snijega

### **CEN/TR 16469:2013 en**

Hydrometry – Measurement of the rainfall intensity (liquid precipitation): requirements, calibration methods and field measurements

Hidrometrija – Mjerenje intenziteta kiše (oborine u tekućem stanju): zahtjevi, metode umjeravanja i mjerjenja na terenu

### **CEN/TR 16588:2014 en**

Manual measurement of snow water equivalent

Ručno mjerjenje ekvivalenta količine vode u snijegu

**CEN/TR 16911:2015 en**

Heat meters – Recommendations for circulation water in industrial and district heating systems and their operation

Mjerila toplinske energije – Preporuke za kruženje vode u industrijskim i daljinskim sustavima grijanja i njihov rad

**prEN 17019-1 en**

Weigh-in-Motion of Road Vehicles

Kontrolno vaganje cestovnih vozila u kretanju

**FprEN 17019-2 en**

Weigh-in-Motion of Road Vehicles – Part 2: Simplified requirements

Kontrolno vaganje cestovnih vozila u pokretu – 2. dio: Pojednostavljeni zahtjevi

**ISO/DIS 80000-7 en**

Quantities and units – Part 7: Light and radiation

Veličine i jedinice – 7. dio: Svjetlost i zračenje

**HZN/TO 521, *Usluge održavanja*****prEN 16991 en**

Risk based inspection framework (RBIF)

**prEN 17007 en**

Maintenance process and associated indicators

**HZN/TO 525, *Hidroizolacijski materijali i proizvodi za pokrivanje krovova*****prEN 12691 en**

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of resistance to impact

Savitljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na udarac

**HZN/TO 526, *Bitumenska veziva*****prEN 12591 en**

Bitumen and bituminous binders – Specifications for paving grade bitumens

Bitumen i bitumenska veziva – Specifikacije za cestograđevne bitumene

**HZN/TO 528, *Oprema za željeznicu*****prEN 13674-2 en**

Railway applications – Track – Rail – Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above

Željeznički sustav – Željeznički gornji ustroj – Tračnica – 2. dio: Tračnice za skretnice i križišta koje se upotrebljavaju zajedno s Vignoleovim željezničkim tračnicama mase 46 kg/m i više

**prEN 13674-4 en**

Railway applications – Track – Rail – Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m

Željeznički sustav – Željeznički gornji ustroj – Tračnica – 4. dio: Vignoleove željezničke tračnice mase od 27 kg/m do 46 kg/m, isključujući 46 kg/m

**EN 16241:2014/FprA1 en**

Railway applications – Slack adjuster

Željeznički sustav – Regulator kočnog polužja

**prEN 16989 en**

Railway applications – Fire protection on railway vehicles – Fire behaviour test for a complete seat  
Željeznički sustav – Zaštita od požara na željezničkim vozilima – Ispitivanje ponašanja u požaru  
cjelokupnog sjedala

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

**ISO 4305:2014/Amd 1:2016 en**

Mobile cranes – Determination of stability  
Mobilni granici – Određivanje stabilnosti

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

**prEN 14932 en**

Plastics – Stretch thermoplastic films for wrapping silage bales – Requirements and test methods, conditions of use and removal

**prEN 15860 en**

Plastics – Thermoplastic semi-finished products for machining – Requirements and test methods  
Plastika – Plastomerni poluproizvodi za strojnu obradu – Zahtjevi i metode ispitivanja

**HZN/TO 532, Dimnjaci**

**DIN 18160-5:2016 de**

Abgasanlagen – Teil 5: Einrichtungen für Schornsteinfegerarbeiten – Anforderungen, Planung und Ausführung  
Dimnjaci – 5. dio: Naprave za pristup dimnjaku – Zahtjevi, projektiranje i izvedba

**HZN/TO 533, Kolničke konstrukcije**

**prEN 12274-3 en**

Slurry surfacing – Test methods – Part 3: Consistency  
Tankoslojne asfaltne prevlake – Metode ispitivanja – 3. dio: Konzistencija

**prEN 12274-4 en**

Slurry surfacing – Test methods – Part 4: Determination of cohesion of the mix  
Tankoslojne asfaltne prevlake – Metode ispitivanja – 4. dio: Određivanje kohezije mješavine

**prEN 12274-5 en**

Slurry surfacing – Test method – Part 5: Determination of the minimum binder content and wearing resistance  
Tankoslojne asfaltne prevlake – Metoda ispitivanja – 5. dio: Određivanje najmanjeg udjela veziva i otpornost na habanje

**prEN 12274-6 en**

Slurry surfacing – Test methods – Part 6: Rate of application  
Tankoslojne asfaltne prevlake – Metode ispitivanja – 6. dio: Količina razastrte mješavine

**prEN 12697-10 en**

Bituminous mixtures – Test methods for hot mix asphalt – Part 10: Compactability  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 10. dio:  
Ugradljivost

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

**prEN 13126-8 en**

Building hardware – Hardware for windows and doors height windows – Part 8: Requirements and test methods for tilt & turn, Tilt-First and Turn-Only hardware

**FprEN 16477-1 en**

Glass in building – Painted glass for internal use – Part 1: Requirements

**FprEN 16477-2 en**

Glass in building – Painted glass for internal use – Part 2: Evaluation of conformity/Product standard

**HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija****prEN ISO 14253-1 en**

Geometrical product specifications (GPS) – Inspection by measurement of workpieces and measuring equipment – Part 1: Decision rules for verifying conformity or nonconformity with specifications (ISO/DIS 14253-1:2016)

Geometrijske specifikacije proizvoda (GSP) – Ispitivanje mjerljivim izradakom i opremom za mjerljivo – 1. dio: Pravila odlučivanja za dokazivanje sukladnosti ili nesukladnosti sa specifikacijom (ISO/DIS 14253-1:2016)

**ISO 16016:2016 en**

Technical product documentation – Protection notices for restricting the use of documents and products

Tehnička dokumentacija proizvoda – Zaštitne oznake za ograničavanje uporabe dokumenata i proizvoda

**HZN/TO 543, Poštanske usluge****prEN ISO 19160-4 en**

Addressing – Part 4: International postal address components and template languages (ISO/DIS 19160-4:2016)

**HZN/TO 550, Opskrba vodom****EN 1017:2014/prA1 en**

Chemicals used for treatment of water intended for human consumption – Half-burnt dolomite  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Polužareni dolomit

**FprEN 13618 en**

Flexible hose assemblies in drinking water installations – Functional requirements and test methods  
Sklopovi od fleksibilnih crijeva u instalacijama za pitku vodu – Funkcionalni zahtjevi i metode ispitivanja

**HZN/TO 553, Predgotovljeni proizvodi****prEN 16757 en**

Sustainability of construction works – Environmental product declarations – Product Category Rules for concrete and concrete elements

Održivost građevina – Izjava zaštite okoliša – Pravila za kategorizaciju proizvoda za beton i betonske elemente

**HZN/TO 555, Medicinski proizvodi****prEN ISO 14644-15 en**

Cleanrooms and associated controlled environments – Part 15: Assessment of suitability for use of equipment and materials by airborne chemical concentration (ISO/DIS 14644-15:2016)

Čisti prostori i odgovarajući kontrolirani okoliš – 15. dio: Procjena prikladnosti opreme i materijala za uporabu u čistim prostorima određivanjem koncentracije čestica koje se prenose zrakom (ISO/DIS 14644-15:2016)

**prEN ISO 15883-4 en**

Washer-disinfectors – Part 4: Requirements and tests for washer-disinfectors employing chemical disinfection for thermolabile endoscopes (ISO/DIS 15883-4:2016)

Uređaji za pranje i dezinfekciju – 4. dio: Zahtjevi i ispitivanja za uređaje za pranje i dezinfekciju u termičkoj dezinfekciji termolabilnih endoskopa (ISO/DIS 15883-4:2016)

**prEN ISO 17664 en**

Processing of health care products – Information to be provided by the medical device manufacturer for the processing of medical devices (ISO/DIS 17664:2016)

Postupci za proizvode zdravstvene zaštite – Informacije za obradu medicinskih proizvoda koje daje proizvođač (ISO/DIS 17664:2016)

**HZN/TO 556, Osobna zaštitna oprema****FprEN 207 en**

Personal eye-protection equipment – Filters and eye-protectors against laser radiation (laser eye-protectors)

Osobna zaštitna oprema za oči – Filtri i sredstva za zaštitu očiju protiv laserskog zračenja (laserski štitnici za oči)

**prEN 363 en**

Personal fall protection equipment – Personal fall protection systems

Osobna zaštitna oprema protiv pada s visine – Sustavi za osobnu zaštitu od pada

**HZN/TO 557, Zaštitna odjeća****prEN 14325 en**

Protective clothing against chemicals – Test methods and performance classification of chemical protective clothing materials; seams; joins and assemblages

Odjeća za zaštitu od kemikalija – Ispitne metode i razredba svojstava za materijale, šavove, rastavljive i trajne spojeve odjeće za zaštitu od kemikalija

**HZN/TO 559, Zaporni, regulacijski i sigurnosni uređaji****prEN 593 en**

Industrial valves – Metallic butterfly valves for general purposes

**prEN 12627 en**

Industrial valves – Butt welding ends for steel valves

Industrijski ventili – Sučelno zavarivi krajevi za čelične ventile

**EN ISO 15848-1:2015/prA1 en**

Industrial valves – Measurement; test and qualification procedures for fugitive emissions – Part 1: Classification system and qualification procedures for type testing of valves

(ISO 15848-1:2015/DAmD 1:2016)

Industrijski zaporni uređaji – Mjerenje, ispitivanje i kvalifikacijski postupci za propuštanje – 1. dio:

Razredbeni sustav i kvalifikacijski postupci za ispitivanje tipa zapornih uređaja

(ISO 15848-1:2015/DAmD 1:2016)

**HZN/TO 562, Alatni strojevi i alati****prEN 847-1 en**

Tools for woodworking machines – Safety requirements – Part 1: Milling tools, circular saw blades

**prEN 847-2 en**

Tools for woodworking – Safety requirements – Part 2: Requirements for the shank of shank mounted milling tools/circular saw blades

**prEN ISO 19085-9 en**

Woodworking machines – Safety – Part 9: Circular saw benches (with and without sliding table)  
(ISO/DIS 19085-9:2016)

Strojevi za obradu drveta – Sigurnost – 9. Dio: Kružne stolne pile (s i bez klizne ploče)  
(ISO/DIS 19085-9:2016)

**HN/T 563, *Sigurnost strojeva*****prEN 1974 en**

Food processing machinery – Slicing machines – Safety and hygiene requirements  
Strojevi za preradu hrane – Strojevi za rezanje – Sigurnosni i higijenski zahtjevi

**prEN 13378 en**

Pasta processing plant – Pasta presses – Safety and hygiene requirements  
Pogoni za proizvodnju tjestenine – Preše za tjesteninu – Sigurnosni i higijenski zahtjevi

**prEN 13379 en**

Pasta processing plant – Spreader, stripping and cutting machine, stick return conveyor – Safety and hygiene requirements

**prEN ISO 14118 en**

Safety of machinery – Prevention of unexpected start-up (ISO/DIS 14118)  
Sigurnost strojeva – Prevencija (sprečavanje) neočekivanog pokretanja (ISO/DIS 14118)

**prEN 16985 en**

Spray booths for organic coating material – Safety requirements  
Kabine za raspršivanje (prskanje) organskih materijala za prevlake – Sigurnosni zahtjevi

**HN/T 564, *Uljarice, biljna i životinjska ulja i masti*****prEN ISO 21294 en**

Oilseeds – Manual or automatic discontinuous sampling (ISO/DIS 21294:2016)  
Uljarice – Ručno ili automatsko nekontinuirano uzorkovanje (ISO/DIS 21294:2016)

**HN/T 568, *Analize hrane - Horizontalne metode*****prEN 16987 en**

Foodstuffs – Determination of acrylamide in coffee and coffee products by HPLC-MS/MS and GC-MS  
Hrana – Određivanje akrilamida u kavi i proizvodima od kave metodom HPLC-MS/MS i GC-MS

**prEN 16995 en**

Foodstuffs – Vegetable oils and foodstuff on basis of vegetable oils – Determination of mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) with on-line HPLC-GC-FID analysis

Hrana – Biljna ulja i hrana na bazi biljnih ulja – Određivanje zasićenih ugljikovodika iz mineralnih ulja (MOSH) i aromatskih ugljikovodika iz mineralnih ulja (MOAH) HPLC-GC-FID analizom u liniji

**HN/T 570, *Sustavi upravljanja energijom*****ISO 50002:2014 en**

Energy audits – Requirements with guidance for use  
Auditi koji se odnose na energiju – Zahtjevi s uputama za uporabu

**ISO 50003:2014 en**

Energy management systems – Requirements for bodies providing audit and certification of energy management systems

Sustavi upravljanja energijom – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja energijom

**ISO 50004:2014 en**

Energy management systems – Guidance for the implementation, maintenance and improvement of an energy management system

Sustavi upravljanja energijom – Upute za primjenu, održavanje i poboljšavanje sustava upravljanja energijom

**ISO 50006:2014 en**

Energy management systems – Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) – General principles and guidance

Sustavi upravljanja energijom – Mjerenje rezultata upravljanja energijom uporabom polaznih vrijednosti (EnB) i indikatora rezultata upravljanja energijom (EnPI)

**ISO 50015:2014 en**

Energy management systems – Measurement and verification of energy performance of organizations – General principles and guidance

Sustavi upravljanja energijom – Mjerenje i verifikacija rezultata upravljanja energijom u organizaciji – Opća načela i upute

***HZN/TO E13, Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom*****FprEN 62056-6-1:2016 en**

Electricity metering data exchange – The DLMS/COSEM suite – Part 6-1: COSEM Object Identification System (OBIS) (IEC 62056-6-1:201X)

Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification/Companion Specification for Energy Metering) – Dio 6-1: Sustav prepoznavanja objekta (OBIS - OBject Identification System) (IEC 62056-6-1:201X)

**FprEN 62056-6-2:2016 en**

Electricity metering data exchange – The DLMS/COSEM suite – Part 6-2: COSEM interface classes (IEC 62056-6-2:201X)

Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 6-2: COSEM razredi sučelja (IEC 62056-6-2:201X)

***HZN/TO E15, Čvrsti elektrotehnički izolacijski materijali*****FprEN 62677-3-101:2016 en**

Heat-shrinkable low and medium voltage moulded shapes – Part 3: Material requirements – Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications (IEC 62677-3-101:201X)

**FprEN 62677-3-102:2016 en**

Heat-shrinkable low and medium voltage moulded shapes – Part 3: Material requirements – Sheet 102: Heat-shrinkable, polyolefin, anti-tracking moulded shapes for medium voltage applications (IEC 62677-3-102:201X)

***HZN/TO E17, Sklopni i upravljački uređaji*****EN 62271-100:2009/FprA2:2016 en**

High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers (IEC 62271-100:2008/am2:201X)

**EN 62271-101:2013/FprA1:2016 en**

High-voltage switchgear and controlgear – Part 101: Synthetic testing (IEC 62271-101:2012/am1:201X)

Visokonaponska sklopna aparatura – 101. dio: Sintetska ispitivanja (IEC 62271-101:2012/am1:201X)

## **HN/T0 E23, Električni instalacijski pribor**

### **FprEN 60309-5:2016 en**

Plugs, socket-outlets and couplers for industrial purposes – Part 5: Dimensional compatibility and interchangeability requirements for plugs, socket-outlets, ship connectors and ship inlets for low-voltage shore connection systems (LVSC) (IEC 60309-5:201X)

### **EN 61386-1:2008/FprA1:2016 en**

Conduit systems for cable management – Part 1: General requirements  
(IEC 61386-1:2008/am1:201X)

Sustavi cijevi za vođenje kabela – 1. dio: Opći zahtjevi (IEC 61386-1:2008/am1:201X)

## **HN/T0 E31, Eksplozivne atmosfere**

### **prEN 50059 en**

Electrostatic hand-held spraying equipment – Safety requirements – Hand-held spraying equipment for non-ignitable coating materials

### **prEN 50271:2016 en**

Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen – Requirements and tests for apparatus using software and/or digital technologies

Električni uređaji za otkrivanje i mjerenje zapaljivih plinova, otrovnih plinova ili kisika – Zahtjevi za ispitivanje uređaja koji upotrebljavaju računalni program (software) i/ili digitalne tehnologije

## **HN/T0 E34, Žarulje, svjetiljke i pripadna oprema**

### **EN 60061-1:1993/FprA55:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am55:201X)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am55:201X)

### **EN 60061-1:1993/FprA56:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am56:201X)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am56:201X)

### **EN 60061-2:1993/FprA52:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am52:201X)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am52:201X)

### **EN 60061-3:1993/FprA53:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am53:201X)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am53:201X)

### **EN 60061-4:1992/FprA15:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4: Guidelines and general information (IEC 60061-4:1990/am15:201X)

Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 4. dio: Smjernice i opće informacije (IEC 60061-4:1990/am15:201X)

### **EN 60598-1:2015/prA1 (fragment 1):2016 en**

Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/am1 (fragment 1):201X)

Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (IEC 60598-1:2014/am1 (fragment 1):201X)

**EN 62504:2014/FprA1:2016 en**

General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions  
(IEC 62504:2014/am1:201X)

Opća rasvjeta – Svjetleće diode (LED) i pripadajuća oprema – Nazivi i definicije  
(IEC 62504:2014/am1:201X)

**FprEN 63013:2016 en**

LED packages – Long-term luminous flux maintenance projection

**HZN/TO E36, Izolatori****FprEN 60137:2016 en**

Insulated bushings for alternating voltages above 1 000 V (IEC 60137:201X)  
Izolirani provodni izolatori za izmjenične napone iznad 1 000 V (IEC 60137:201X)

**HZN/TO E37, Odvodnici prenapona****EN 61643-11:2012/prAA:2016 en**

Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods

Prenaponske zaštitne naprave za niski napon – 11. dio: Prenaponske zaštitne naprave spojene na niskonaponske energetske sustave – Zahtjevi i metode ispitivanja

**FprEN 61643-31:2016 en**

Low-voltage surge protective devices – Part 31: Surge protective devices for specific use including d.c. – Requirements and test methods for SPDs for photovoltaic installations (IEC 61643-31:201X)

**FprEN 61643-32:2016 en**

Low-voltage surge protective devices – Part 32: Surge protective devices for specific use including d.c. – Selection and application principles for SPDs connected to photovoltaic installations (IEC 61643-32:201X)

**FprEN 61643-352:2016 en**

Components for low-voltage surge protection – Part 352: Selection and application principles for telecommunications and signalling network surge isolation transformers (SIT) (IEC 61643-352:201X)

**HZN/TO E57, Upravljanje energetskim sustavom i pridružene komunikacije****EN 60809:2015/FprA1:2016 en**

Lamps for road vehicles – Dimensional, electrical and luminous requirements  
(IEC 60809:2014/am1:201X)

Žarulje za cestovna vozila – Dimenzije, električni i svjetlosni zahtjevi (IEC 60809:2014/am1:201X)

**EN 61850-6:2010/prA1:2016 en**

Communication networks and systems for power utility automation – Part 6: Configuration description language for communication in electrical substations related to IEDs (IEC 61850-6:2009/am1:201X)  
Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – 6. dio: Konfiguracija opisnog jezika za komunikaciju u transformatorskim stanicama s obzirom na IED-ove  
(IEC 61850-6:2009/am1:201X)

**EN 61850-7-2:2010/prA1:2016 en**

Communication networks and systems for power utility automation – Part 7-2: Basic information and communication structure – Abstract communication service interface (ACSI)  
(IEC 61850-7-2:2010/am1:201X)

Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – Dio 7-2: Osnovna informatička i komunikacijska struktura – Apstraktno sučelje komunikacijskih usluga (ACSI)  
(IEC 61850-7-2:2010/am1:201X)

**EN 61850-7-3:2011/prA1:2016 en**

Communication networks and systems for power utility automation – Part 7-3: Basic communication structure – Common data classes (IEC 61850-7-3:2010/am1:201X)

Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – Dio 7-3: Osnovna komunikacijska struktura – Zajedničke klase podataka (IEC 61850-7-3:2010/am1:201X)

**EN 61850-9-2:2011/prA1:2016 en**

Communication networks and systems for power utility automation – Part 9-2: Specific communication service mapping (SCSM) – Sampled values over ISO/IEC 8802-3 (IEC 61850-9-2:2011/am1:201X)

Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – Dio 9-2: Specifična komunikacijska usluga preslikavanja (SCSM) – Uzorkovanje putem ISO/IEC 8802-3 (IEC 61850-9-2:2011/am1:201X)

**FprEN 61970-302:2016 en**

Energy Management System Application Program Interface (EMS-API) – Part 302: CIM for Dynamics (IEC 61970-302:201X)

**EN 61970-453:2014/FprA1:2016 en**

Energy management system application program interface (EMS-API) – Part 453: Diagram layout profile (IEC 61970-453:2014/am1:201X)

Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 453. dio: Profili za pregled shema (IEC 61970-453:2014/am1:201X)

**FprEN 62325-451-1:2016 en**

Framework for energy market communications – Part 451-1: Acknowledgement business process and contextual model for CIM European market (IEC 62325-451-1:201X)

Okvir za komunikaciju na tržištu električnom energijom – Dio 451-1: Poslovni proces potvrđivanja i kontekstualni model za CIM europsko tržište (IEC 62325-451-1:201X)

**prEN 62351-9:2016 en**

Power systems management and associated information exchange – Data and communications security – Part 9: Cyber security key management for power system equipment (IEC 62351-9:201X)

**HN/TN E59, Uporabne značajke električnih kućanskih aparata****FprEN 62863:2016 en**

Methods of measuring performances of electric hair clippers or trimmers for household use (IEC 62863:201X)

**HN/TN E61, Sigurnost električnih kućanskih i sličnih aparata****CLC/FprTR 50417 en**

Safety of household and similar electrical appliances – Interpretations related to European Standards in the EN 60335 series

Sigurnost kućanskih i sličnih električnih aparata – Interpretacije koje se odnose na europske norme serije EN 60335

**FprEN 60335-2-36:2016 en**

Household and similar electrical appliances – Safety – Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements (IEC 60335-2-36:201X)

**FprEN 60335-2-37:2016 en**

Household and similar electrical appliances – Safety – Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers (IEC 60335-2-37:201X)

**EN 60335-2-38:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-38: Particular requirements for commercial electric griddles and griddle grills (IEC 60335-2-38:2002/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-38: Posebni zahtjevi ugostiteljskih električnih dodirnih roštilja (IEC 60335-2-38:2002/am2:201X)

**EN 60335-2-42:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens (IEC 60335-2-42:2002/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-42: Posebni zahtjevi za ugostiteljske električne pećnice s puhalom, parne tlačne pećnice i konvekcijske parne pećnice (IEC 60335-2-42:2002/am2:201X)

**EN 60335-2-47:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans (IEC 60335-2-47:2002/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-47: Posebni zahtjevi za ugostiteljske električne kotlove (IEC 60335-2-47:2002/am2:201X)

**EN 60335-2-48:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters (IEC 60335-2-48:2002/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-48: Posebni zahtjevi za ugostiteljske električne zračeće roštilje i pržila kruha (IEC 60335-2-48:2002/am2:201X)

**EN 60335-2-49:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm (IEC 60335-2-49:2002/am2:201X)

**EN 60335-2-50:2003/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-50: Particular requirements for commercial electric bains-marie (IEC 60335-2-50:2002/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-50: Posebni zahtjevi za ugostiteljske električne tople vodne kupke (IEC 60335-2-50:2002/am2:201X)

**EN 60335-2-64:2016/FprA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-64: Particular requirements for commercial electric kitchen machines (IEC 60335-2-64:2016/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-64: Posebni zahtjevi za ugostiteljske električne kuhinjske strojeve (IEC 60335-2-64:2016/am2:201X)

**EN 60335-2-99:2003/FprA1:2016 en**

Household and similar electrical appliances – Safety – Part 2-99: Particular requirements for commercial electric hoods (IEC 60335-2-99:2003/am1:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-99: Posebni zahtjevi za ugostiteljske odsisne kape (IEC 60335-2-99:2003/am1:201X)

**HN/T TO E62, Električna oprema u medicinskoj praksi****EN 60601-2-4:2011/FprA1:2016 en**

Medical electrical equipment – Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators (IEC 60601-2-4:2010/am1:201X)

Medicinska električni uređaji – Dio 2-4: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke srčanih defibrilatora (IEC 60601-2-4:2010/am1:201X)

**HN/T TO E64, Električne instalacije i zaštita od električnog udara****prEN 50107-3:2016 en**

Product standard covering luminous signs with discharge lamps and/or LED (light emitting diodes) and/or EL (electroluminescent) lightsources with a nominal voltage not exceeding 1000 V, with the exclusion of general lighting, traffic- or emergency related purpose

**FprHD 60364-7-708:2016 en**

Low-voltage electrical installations – Part 7-708: Requirements for special installations or location – Caravan parks, camping parks and similar locations (IEC 60364-7-708:201X)  
Niskonaponske električne instalacije – Dio 7-708: Zahtjevi za posebne instalacije ili prostore – Kampovi za stambene autoprikolice, šatore i slične prostore (IEC 60364-7-708:201X)

**FprHD 60364-7-721:2016 en**

Low-voltage electrical installations – Part 7-721: Requirements for special installations or locations – Electrical installations in caravans and motor caravans (IEC 60364-7-721:201X)  
Niskonaponske električne instalacije – Dio 7-721: Zahtjevi za posebne instalacije ili prostore – Električne instalacije u stambenim autoprikolicama i motornim stambenim autoprikolicama (IEC 60364-7-721:201X)

**HN/T TO E65, *Mjerenje, vođenje i automatizacija industrijskih procesa*****FprEN 61987-24-2:2016 en**

Industrial-Process Measurement and Control – Data Structures and Elements in Process Equipment Catalogues – Part 24-2: List of Properties (LOP) of valve/actuator accessories for electronic data exchange (IEC 61987-24-2:201X)  
Mjerenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – Dio 24-2: Popis svojstava pribora ventila/aktuatora za električku razmjenu podataka (IEC 61987-24-2:201X)

**FprEN 61987-24-3:2016 en**

Industrial-Process Measurement and Control – Data Structures and Elements in Process Equipment Catalogues – Part 24-3: List of Properties (LOP) of flow modification accessories for electronic data exchange (IEC 61987-24-3:201X)  
Mjerenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – Dio 24-3: Popis svojstava za modifikacijski protočni pribor za električku razmjenu podataka (IEC 61987-24-3:201X)

**prEN 62443-4-1:2016 en**

Security for industrial automation and control systems – Part 4-1: Secure Product Development Lifecycle Requirements (IEC 62443-4-1:201X)  
Sigurnost industrijskih sustava za automatizaciju i vođenje (IACS) – Dio 4-1: Sigurnosni zahtjevi za proizvodni ciklus proizvoda (IEC 62443-4-1:201X)

**FprEN 62714-3:2016 en**

Engineering data exchange format for use in industrial automation systems engineering – Automation Markup Language – Part 3: Geometry and kinematics (IEC 62714-3:201X)  
Format razmjene tehničkih podataka za uporabu u upravljanju industrijskim automatizacijskim sustavima – Viši jezik automatizacije (AutomationML) – 3. dio: Geometrija i kinematika (IEC 62714-3:201X)

**FprEN 62952-3:2016 en**

Power sources for a wireless communication device – Part 3: Energy harvesting specification (IEC 62952-3:201X)  
Izvori napajanja za bežični komunikacijski uređaj – 3. dio: Pohrana energije – Specifikacija (IEC 62952-3:201X)

**HN/T TO E79, *Alarmni sustavi*****prEN 50131-2-8:2016 en**

Alarm systems – Intrusion and hold-up systems – Part 2-8: Intrusion detectors – Shock detectors  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-8: Protuprovalni detektori – Detektori udara

**prEN 50131-6:2016 en**

Alarm systems – Intrusion and hold-up systems – Part 6: Power supplies  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – 6. dio: Izvori napajanja

**prEN 50134-2:2016 en**

Alarm systems – Social alarm systems – Part 2: Trigger devices

Alarmni sustavi – Socijalni alarmni sustavi – 2. dio: Naprave za okidanje

**FprEN 62820-1-2:2016 en**

Building intercom systems – Part 1-2: Requirements for IP building intercom systems

(IEC 62820-1-2:201X)

Sustavi za internu komunikaciju u zgradi – Dio 1-2: Zahtjevi za IP sustave za internu komunikaciju u zgradi (IEC 62820-1-2:201X)

**FprEN 62820-2:2016 en**

Building intercom systems – Part 2: Requirements for advanced security building intercom systems  
(IEC 62820-2:201X)

Sustavi za internu komunikaciju u zgradi – 2. dio: Zahtjevi za napredne sigurnosne sustave komunikacije u zgradi (IEC 62820-2:201X)

**HN/TN E80, Pomorska navigacijska i radiokomunikacijska oprema i sustavi****FprEN 62287-1:2016 en**

Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 1: Carrier-sense time division multiple access (CSTDMA) techniques (IEC 62287-1:201X)

Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodska oprema razreda B sustava automatske identifikacije (AIS) – 1. dio: Tehnike višestrukog pristupa s vremenskom podjelom detekcije nosioca (IEC 62287-1:201X)

**FprEN 62287-2:2016 en**

Maritime navigation and radiocommunication equipment and systems – Class B shipborne equipment of the automatic identification system (AIS) – Part 2: Self-organising time division multiple access (SOTDMA) techniques (IEC 62287-2:201X)

Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodska oprema razreda B sustava automatske identifikacije (AIS) – 2. dio: Tehnike samoorganizirajućeg višestrukog pristupa s vremenskom podjelom (IEC 62287-2:201X)

**HN/TN E81, Zaštita od munje****FprEN 62561-1:2016 en**

Lightning Protection System Components (LPSC) – Part 1: Requirements for connection components (IEC 62561-1:201X)

Sastavnice sustava zaštite od munje (LPSC) – 1. dio: Zahtjevi za spojne elemente (IEC 62561-1:201X)

**FprEN 62561-3:2016 en**

Lightning Protection System Components (LPSC) – Part 3: Requirements for isolating spark gaps (IEC 62561-3:201X)

Sastavnice sustava zaštite od munje (LPSC) – 3. dio: Zahtjevi za odvojna iskrišta (IEC 62561-3:201X)

**FprEN 62561-4:2016 en**

Lightning protection system components (LPSC) – Part 4: Requirements for conductor fasteners (IEC 62561-4:201X)

Sastavnice sustava zaštite od munje (LPSC) – 4. dio: Zahtjevi za držače vodiča (IEC 62561-4:201X)

**FprEN 62561-5:2016 en**

Lightning protection system components (LPSC) – Part 5: Requirements for earth electrode inspection housings and earth electrode seals (IEC 62561-5:201X)

Sastavnice sustava zaštite od munje (LPSC) – 5. dio: Zahtjevi za uzemne zdence i brtvenice vodiča uzemljivača (IEC 62561-5:201X)

## **HN/T0 E85, Oprema za mjerjenje električnih i elektromagnetskih veličina**

### **FprEN 62754:2016 en**

Computation of waveform parameter uncertainties (IEC 62754:201X)  
Proračun nesigurnosti parametra valnog oblika (IEC 62754:201X)

## **HN/T0 E100, Audio, video i multimedijski sustavi te njihova oprema**

### **FprEN 62680-1-2:2016 en**

Universal Serial Bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery Specification (IEC 62680-1-2:201X)

## **HN/T0 E106, Elektromagnetska polja u ljudskome okolišu**

### **prEN 50647 en**

Basic standard for the evaluation of workers' exposure to electric and magnetic fields from equipment and installations for the production, transmission and distribution of electricity  
Osnovna norma za procjenu izloženosti radnika električnim i magnetskim poljima od uređaja i instalacija za proizvodnju, prijenos i distribuciju električne energije

## **HN/T0 E112, Procjena i značajke električnih izolacijskih materijala i sustava**

### **FprEN 61857-31:2016 en**

Electrical insulation systems-procedures for thermal evaluation – Part 31: Applications with a designed life less than 5000 hours (IEC 61857-31:201X)

## **HN/T0 E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama**

### **EN 61000-2-2:2002/prA1:2016 en**

Electromagnetic compatibility (EMC) – Part 2-2: Environment – Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems (IEC 61000-2-2:2002/am1:201X)

Elektromagnetska kompatibilnost (EMC) – Dio 2-2: Okoliš – Razine kompatibilnosti za niskofrekvenske vođene smetnje i dojavu u javnim niskonaponskim energetskim sustavima (IEC 61000-2-2:2002/am1:201X)

### **EN 61000-4-11:2004/FprA1:2016 en**

Elektromagnetska kompatibilnost (EMC) – Dio 4-11: Ispitne i mjerne tehnike – Ispitivanje otpornosti na naponske propade, kratkotrajne prekide i naponske promjene (IEC 61000-4-11:2004/am1:201X)

## **HN/T0 E501, Elektroakustika i ultrazvuk**

### **EN 61391-1:2006/prA1:2016 en**

Ultrasonics – Pulse-echo scanners – Part 1: Techniques for calibrating spatial measurement systems and measurement of point-spread function response (IEC 61391-1:2006/am1:201X)

Ultrazvuk – Odječni skener – 1. dio: Postupci za kalibraciju prostornih mjernih sustava i mjerjenje odziva raspršne funkcije u točki prostora (IEC 61391-1:2006/am1:201X)

### **EN 62127-2:2007/prA2:2016 en**

Ultrasonics – Hydrophones – Part 2: Calibration for ultrasonic fields up to 40 MHz (IEC 62127-2:2007/am2:201X)

Ultrazvuk – Hidrofoni – 2. dio: Umjeravanje za ultrazvučna polja do 40 MHz (IEC 62127-2:2007/am2:201X)

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

### **ISO/IEC 14763-2:2012 en**

Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation  
Informacijska tehnologija – Izvedba i pogon kabliranja korisničkih prostora – 2. dio: Planiranje i instaliranje

### **ISO/IEC 14763-2:2012/Amd 1:2015 en**

Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation  
Informacijska tehnologija – Izvedba i pogon kabliranja korisničkih prostora – 2. dio: Planiranje i instaliranje

### **ISO/IEC 14763-3:2014 en**

Information technology – Implementation and operation of customer premises cabling – Part 3: Testing of optical fibre cabling  
Informacijska tehnologija – Izvedba i pogon kabliranja korisničkih prostora – 3. dio: Ispitivanje svjetlovodnog kabliranja

### **ISO/IEC 14763-3:2014/Cor 1:2015 en**

Information technology – Implementation and operation of customer premises cabling – Part 3: Testing of optical fibre cabling  
Informacijska tehnologija – Izvedba i pogon kabliranja korisničkih prostora – 3. dio: Ispitivanje svjetlovodnog kabliranja

### **ISO/IEC 24764:2010/Amd 1:2014 en**

Information technology – Generic cabling systems for data centres  
Informacijska tehnologija – Generički sustavi kabliranja podatkovnih centara

### **ISO/IEC/TR 29106:2007/Amd 1:2012 en**

Information technology – Generic cabling – Introduction to the MICE environmental classification  
Informacijska tehnologija – Generičko kabiranje – Uvod u MICE-razredbu uvjeta okoline

### **FprEN 50600-4-1:2016 en**

Information technology – Data centre facilities and infrastructures – Part 4-1: Overview of and general requirements for key performance indicators

### **FprEN 50600-4-2:2016 en**

Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness

### **FprEN 50600-4-3:2016 en**

Information technology – Data centre facilities and infrastructures – Part 4-3: Renewable Energy Factor

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

### **Draft EN 300 220-1 V3.1.0:2016 en**

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 1: Technical characteristics and methods of measurement  
Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – 1. dio: Tehničke značajke i metode ispitivanja

**Draft EN 300 220-2 V3.1.0:2016 en**

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU for non specific radio equipment

Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU za neodređenu radijsku opremu

**Draft EN 300 220-3-1 V2.1.0:2016 en**

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Low duty cycle high reliability equipment – Social Alarms Equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)

Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – Dio 3-1: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – Visoko pouzdana oprema s niskim ciklusom opterećenja – Oprema društvenih alarma koja radi na namijenjenim frekvencijama (869,200 MHz do 869,250 MHz)

**Draft EN 300 220-3-2 V1.1.0:2016 en**

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz

Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – Dio 3-2: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – Bežični alarmi koji rade u namijenjenim LDC/HR frekvencijskim pojasima od 868,60 MHz do 868,70 MHz, od 869,25 MHz do 869,40 MHz, od 869,65 MHz do 869,70 MHz

**Draft EN 300 220-4 V1.1.0:2016 en**

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 4: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Metering devices operating in designated band 169,400 MHz to 169,475 MHz

Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – 4. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – Mjerni uređaji koji rade u namijenjenom pojasu od 169,400 MHz do 169,475 MHz

**Draft EN 300 328 V2.0.20:2016 en**

Wideband transmission systems – Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Širokopojasni prijenosni sustavi – Uređaji za prijenos podataka u ISM frekvencijskom pojasu od 2,4 GHz i koji primjenjuju metode širokopojasne modulacije – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 330 V2.1.0:2016 en**

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

Uređaji kratkoga dometa (SRD) – Radijska oprema u frekvencijskom području od 9 kHz do 25 MHz i sustavima s induktivskom petljom u frekvencijskom području od 9 kHz do 30 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 392-7 V3.4.0:2016 en**

Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 7: Security  
Digitalni radiokomunikacijski sustav (TETRA) – Govor i podaci (V+D) – 7. dio: Sigurnost

**Draft EN 300 392-12-4 V1.4.0:2016 en**

Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage

3 – Sub-part 4: Call Forwarding (CF)

Digitalni radiokomunikacijski sustav (TETRA) – Glas plus podatci (V+D) – 12. dio: Dodatne usluge stupnja 3 – 4. poddio: Preusmjeravanje poziva (CF)

**Draft EN 300 396-6 V1.6.0:2016 en**

Terrestrial Trunked Radio (TETRA) – Direct Mode Operation (DMO) – Part 6: Security

Digitalni radiokomunikacijski sustav (TETRA) – Izravni način rada (DMO) – 6. dio: Sigurnost

**Draft EN 300 422-1 V2.0.0:2016 en**

Wireless Microphones – Audio PMSE up to 3 GHz – Part 1: Class A Receivers – Harmonised

Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Bežični mikrofoni – Audio PMSE do 3 GHz – 1. dio: Prijamnici klase A – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 422-2 V2.0.0:2016 en**

Wireless Microphones – Audio PMSE up to 3 GHz – Part 2: Class B Receivers – Harmonised

Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Bežični mikrofoni – Audio PMSE do 3 GHz – 2. dio: Prijamnici klase B – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 422-3 V2.0.0:2016 en**

Wireless Microphones – Audio PMSE up to 3 GHz – Part 3: Class C Receivers – Harmonised

Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Bežični mikrofoni – Audio PMSE do 3 GHz – 3. dio: Prijamnici klase C – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 440 V2.1.0:2016 en**

Short Range Devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range –

Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekvencijskom području od 1 GHz do 40 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 300 674-2-2 V2.0.3:2016 en**

Transport and Traffic Telematics (TTT) – Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Sub-part 2: On-Board Units (OBU)

Telematika cestovnog prijevoza i prometa (RTTT) – Prijenosna oprema (500 kbit/s/250 kbit/s) namijenjena komunikaciji kratkoga dometa (DSRC) koja radi u pojasu od 5,8 GHz za industrijsku, znanstvenu i medicinsku primjenu (ISM) – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. poddio: Jedinice na vozilu (OBU)

**Draft EN 300 698 V2.1.0:2016 en**

Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU

Radio telefonski odašiljači i prijamnici za pomorsku pokretnu službu koja radi u VHF pojasmima, namijenjeni za kopnene vodene puteve – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članaka 3.2 i 3.3(g) Direktive 2014/53/EU

**Draft EN 301 091-1 V2.1.0:2016 en**

Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Ground based vehicular radar

Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarski uređaji koji rade u području od 76 GHz do 77 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 1. dio: Zemaljski radar smješten na vozilu

**Draft EN 301 091-2 V2.1.0:2016 en**

Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: Fixed infrastructure radar equipment

Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarski uređaji koji rade u području od 76 GHz do 77 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. dio: Fiksna infrastrukturna radarska oprema

**Draft EN 301 489-1 V2.1.0:2016 en**

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

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU i bitne zahtjeve iz članka 6 Direktive 2014/30/EU – 1. dio: Opći tehnički zahtjevi

**Draft EN 301 489-4 V3.1.0:2016 en**

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

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 4. dio: Posebni uvjeti za fiksne radijske veze i pomoćnu opremu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-5 V2.1.0:2016 en**

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 5: Specific conditions for Private Land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA) Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 5. dio: Posebni uvjeti za privatne kopneni pokretni radio (PMR) i pomoćnu opremu (s govorom i bez govora) i digitalni radiokomunikacijski sustav (TETRA) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-6 V2.1.0:2016 en**

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 6. dio: Posebni uvjeti za opremu digitalnih poboljšanih bežičnih komunikacija (DECT) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-15 V2.1.0:2016 en**

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 15: Specific conditions for commercially available amateur radio equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 15. dio: Posebni uvjeti za komercijalno dostupnu opremu za radioamatere – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-17 V3.1.0:2016 en**

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

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 17. dio: Posebni uvjeti za sustave širokopojasnog prijenosa podataka – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-33 V2.1.0:2016 en**

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

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 33. dio: Posebni uvjeti za komunikacijske uređaje ultra širokog pojasa (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 489-34 V2.1.0:2016 en**

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 34: Specific conditions for External Power Supply (EPS) for mobile phones – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU and the essential requirements of article 6 of the Directive 2014/30/EU

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 34. dio: Posebni uvjeti za izvore vanjskog napajanja (EPS) za pokretne telefone – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1b Direktive 2014/53/EU i bitne zahtjeve iz članka 6 Direktive 2014/30/EU

**Draft EN 301 489-50 V2.1.0:2016 en**

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

Norma za elektromagnetsku kompatibilnost radijske opreme i službe – 50. dio: Posebni uvjeti za bazne postaje (BS) celularnih komunikacija (BS), repetitor i pomoćnu opremu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU

**Draft EN 301 842-5 V2.1.0:2016 en**

VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 5: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Radijska oprema za VHF digitalnu vezu (VDL), zrak-tlo, mod 4 – Tehničke značajke i mjerne metode za opremu na tlu – 5. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 065-1 V2.1.0:2016 en**

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Requirements for Generic UWB applications

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopoljasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 1. dio: Zahtjevi za generičke UWB primjene

**Draft EN 302 065-2 V2.1.0:2016 en**

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: Requirements for UWB location tracking

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopoljasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. dio: Zahtjevi za UWB praćenje lokacije

**Draft EN 302 065-3 V2.1.0:2016 en**

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: Requirements for UWB devices for ground based vehicular applications

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopoljasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Zahtjevi za UWB uređaje koje primjenjuju vozila na tlu

**Draft EN 302 065-4 V1.1.0:2016 en**

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 4: Material Sensing devices using UWB technology below 10,6 GHz

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopojasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 4. dio: Uređaji osjetljivi na materijal, koji primjenjuju UWB tehnologiju ispod 10,6 GHz

**Draft EN 302 066 V2.1.0:2016 en**

Short Range Devices (SRD) – Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uređaji kratkoga dometa (SRD) – Radarski sustavi za prikaz odraza od zemlje i od krute prepreke (GPR/WPR) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 194 V2.1.0:2016 en**

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

Navigacijski radar koji se upotrebljava na unutarnjim vodenim putovima – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 195 V2.0.1:2016 en**

Ultra Low Power Active Medical Implants (ULP-AMI) and accessories (ULP-AMI-P) operating in the frequency range 9 kHz to 315 kHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Aktivni medicinski implantati ultra niske snage (ULP-AMI) i oprema u frekvencijskom području od 9 kHz do 315 kHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 372 V2.1.0:2016 en**

Short Range Devices (SRD) – Tank Level Probing Radar (TLPR) equipment operating in the frequency ranges 4,5 GHz to 7 GHz, 8,5 GHz to 10,6 GHz, 24,05 GHz to 27 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uređaji kratkoga dometa (SRD) – Radarski uređaj za ispitivanje razine tvari u spremniku (TLPR) u frekvencijskim pojasima od 4,5 GHz do 7 GHz, od 8,5 GHz do 10,6 GHz, od 24,05 GHz do 27 GHz, od 57 GHz do 64 GHz, od 75 GHz do 85 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 571 V2.0.0:2016 en**

Intelligent Transport Systems (ITS) – Radiocommunications equipment operating in the 5 855 MHz to 5 925 MHz frequency band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Inteligentni transportni sustavi (ITS) – Radiokomunikacijska oprema koja radi u frekvencijskom pojasu od 5 855 MHz do 5 925 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 729 V2.1.0:2016 en**

Short Range Devices (SRD) – Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uređaji kratkoga dometa (SRD) – Radarski uređaj za ispitivanje razine tvari (LPR) u frekvencijskim pojasima od 6 GHz do 8,5 GHz, od 24,05 GHz do 26,5 GHz, od 57 GHz do 64 GHz, od 75 GHz do 85 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 858 V2.1.0:2016 en**

Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 24,05 GHz to 24,25 GHz or 24,05 GHz to 24,50 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uredaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarski uređaji koji rade u pojasu od 24,05 GHz do 24,25 GHz ili od 24,05 GHz do 24,50 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 303 135 2.1.0:2016 en**

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Coastal Surveillance, Vessel Traffic Services and Harbour Radars (CS/VTS/HR) – Harmonized EN covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Obalni nadzor, opsluživanje prometa plovila i lučki radari (CS/VTS/HR) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 303 146-3 V1.1.7:2016 en**

Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 3: Unified Radio Application Interface (URAI)

Rekonfiguracijski radijski sustavi (RRS) – Informacijski modeli i protokoli radijskih uređaja (MD) – 3. dio: Objedinjeno radijsko sučelje (URA)

**Draft EN 303 396 V1.1.0:2016 en**

Short Range Devices – Measurement Techniques for Automotive and Surveillance Radar Equipment  
Uredaji kratkoga dometa – Mjerne tehnike za automobilske i nadzorne radarske uređaje

**Draft EN 303 406 V1.1.0:2016 en**

Short Range Devices (SRD) – Social Alarms Equipment operating in the frequency range 25 MHz to 1 000 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Uredaji kratkoga dometa (SRD) – Oprema društvenih alarma koja radi u frekvencijskom području od 25 MHz do 1 000 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**HN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1****prEN 131-3 en**

Ladders – Part 3: Marking and user instruction

**prEN 16992 en**

Competency for Customs Representatives

**prEN ISO 18295-1 en**

Customer contact centres – Part 1: Requirements for customer contact centres  
(ISO/DIS 18295-1:2016)

**prEN ISO 18295-2 en**

Customer contact centres – Part 2: Requirements for using the services of customer contact centres  
(ISO/DIS 18295-2:2016)

**HN/TU B1, Graditeljstvo 1****prEN ISO 12006-3 en**

Building construction – Organization of information about construction works – Part 3: Framework for object-oriented information (ISO 12006-3:2007)

Gradnja zgrada – Organiziranje informacija o građevinskim radovima – 3. dio: Objektno usmjerene informacije (ISO 12006-3:2007)

**prEN ISO 16739 en**

Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries (ISO 16739:2013)

Format podataka Industry Foundation Classes (IFC) za razmjenu podataka u građevinskoj industriji i upravljanju objektima (ISO 16739:2013)

**prEN ISO 29481-2 en**

Building information models – Information delivery manual – Part 2: Interaction framework (ISO 29481-2:2012)

Modeli informacija o građevinama – Priručnik za razmjenu informacija – 2. dio: Okvir za interakcije (ISO 29481-2:2012)

**HN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1****FprEN ISO 17296-2 en**

Additive manufacturing – General principles – Part 2: Overview of process categories and feedstock (ISO 17296-2:2015)

Proizvodnja aditiva – Opća načela – 2. dio: Pregled kategorija procesa i sirovina (ISO 17296-2:2015)

**FprEN ISO 17296-3 en**

Additive manufacturing – General principles – Part 3: Main characteristics and corresponding test methods (ISO 17296-3:2014)

Proizvodnja aditiva – Opća načela – 3. dio: Glavne značajke i odgovarajuće metode ispitivanja (ISO 17296-3:2014)

**FprEN ISO 17296-4 en**

Additive manufacturing – General principles – Part 4: Overview of data processing (ISO 17296-4:2014)

Proizvodnja aditiva – Opća načela – 4. dio: Pregled obrade podataka (ISO 17296-4:2014)

**FprEN ISO/ASTM 52921 en**

Standard terminology for additive manufacturing – Coordinate systems and test methodologies (ISO/ASTM 52921:2013)

Standardno nazivlje u proizvodnji aditiva – Koordinatni sustavi i metode ispitivanja (ISO/ASTM 52921:2013)

**HN/TU I2, Strojarstvo 2****prEN ISO 9806 en**

Solar energy – Solar thermal collectors – Test methods (ISO/DIS 9806:2016)

Sunčeva energija – Toplinski kolektori Sunčeva zračenja – Metode ispitivanja (ISO/DIS 9806:2016)

**prEN ISO 13578 en**

Industrial furnaces and associated processing equipment – Safety requirements for machinery and equipment for production of steel by electric arc furnaces (ISO/DIS 13578:2016)

Industrijske peći i srodnna procesna oprema – Sigurnosni zahtjevi za strojeve i opremu za proizvodnju čelika u elektrolučnim pećima (ISO/DIS 13578:2016)

**prEN ISO 16001 en**

Earth-moving machinery – Hazard detection systems and visual aids – Performance requirements and tests (ISO/DIS 16001:2016)

**prEN ISO 28057 en**

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

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

### **prEN ISO 9202 en**

Jewellery – Fineness of precious metal alloys (ISO 9202:2014)  
Nakit – Finoča legura plemenitih metala (ISO 9202:2014)

### **prEN ISO 11210 en**

Jewellery – Determination of platinum in platinum jewellery alloys – Gravimetric method after precipitation of diammonium hexachloroplatinate (ISO 11210:2014)  
Nakit – Određivanje platine u legurama platine za nakit – Gravimetrijska metoda nakon taloženja dijamoniumheksakloroplatinata (ISO 11210:2014)

### **prEN ISO 11426 en**

Jewellery – Determination of gold in gold jewellery alloys – Cupellation method (fire assay) (ISO 11426:2014)  
Nakit – Određivanje zlata u legurama zlata za nakit – Metoda kupelacije (ISO 11426:2014)

### **prEN ISO 11427 en**

Jewellery – Determination of silver in silver jewellery alloys – Volumetric (potentiometric) method using potassium bromide (ISO 11427:2014)  
Nakit – Određivanje srebra u legurama srebra za nakit – Volumetrijska (potenciometrijska) metoda upotrebom kalijeva bromida (ISO 11427:2014)

### **prEN ISO 11490 en**

Jewellery – Determination of palladium in palladium jewellery alloys – Gravimetric determination with dimethylglyoxime (ISO 11490:2015)  
Nakit – Određivanje paladija u legurama paladija za nakit – Gravimetrijsko određivanje pomoću dimetilglioksimu (ISO 11490:2015)

### **prEN ISO 11494 en**

Jewellery – Determination of platinum in platinum jewellery alloys – ICP-OES method using yttrium as internal standard element (ISO 11494:2014)  
Nakit – Određivanje platine u legurama platine za nakit – Metoda optičke emisijske spektrometrije s induktivno spregnutom plazmom (ICP-OES) upotrebom itrija kao unutrašnjeg standardnog elementa (ISO 11494:2014)

### **prEN ISO 11495 en**

Jewellery – Determination of palladium in palladium jewellery alloys – ICP-OES method using yttrium as internal standard element (ISO 11495:2014)  
Određivanje paladija u legurama paladija za nakit – Metoda optičke emisijske spektrometrije s induktivno spregnutom plazmom (ICP-OES) upotrebom itrija kao unutrašnjeg standardnog elementa (ISO 11495:2014)

### **FprEN 16983 en**

Disc springs – Quality specifications – Dimensions  
Tanjuraste opruge – Specifikacije kvalitete – Dimenzije

### **FprEN 16984 en**

Disc springs – Calculation  
Tanjuraste opruge – Proračun

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

### **prEN ISO 8637-1 en**

Extracorporeal systems for blood purification – Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators (ISO/DIS 8637-1:2016)  
Izvantelesni sustavi za pročišćavanje krvi – 1. dio: Uređaji za hemodijalizu, hemodijafiltriranje, hemofiltriranje i hemokoncentraciju (ISO/DIS 8637-1:2016)

**prEN ISO 8637-2 en**

Extracorporeal systems for blood purification – Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters (ISO/DIS 8637-2:2016)  
Izvantjelesni sustavi za pročišćavanje krvi – 2. dio: Izvantjelesni krvotok za uređaje za hemodijalizu, hemodijafiltriranje i hemofiltriranje (ISO/DIS 8637-2:2016)

**prEN ISO 9917-2 en**

Dentistry – Water-based cements – Part 2: Resin-modified cements (ISO/DIS 9917-2:2016)  
Stomatologija – Cementi na bazi vode – 2. dio: Cementi modificirani smolom (ISO/DIS 9917-2:2016)

**prEN ISO 11609 en**

Dentistry – Dentifrices – Requirements, test methods and marking (ISO/DIS 11609:2016)  
Stomatologija – Zubne paste – Zahtjevi, metode ispitivanja i označivanje (ISO/DIS 11609:2016)

**prEN ISO 14457 en**

Dentistry – Handpieces and motors (ISO/DIS 14457:2016)  
Stomatologija – Nastavci i motori (ISO/DIS 14457:2016)

**prEN ISO 15621 en**

Absorbent incontinence aids for urine and/or faeces – General guidelines on evaluation  
(ISO/DIS 15621:2016)  
Upijajući proizvodi za urinarnu i/ili fekalnu inkontinenciju – Opće smjernice za ocjenjivanje  
(ISO/DIS 15621:2016)

**prEN ISO 19448 en**

Dentistry – Analysis of Fluoride Concentration in Aqueous Solutions by use of Fluoride-Ion Selective Electrode (ISO/DIS 19448:2016)

**prEN ISO 19490 en**

Dentistry – Sinus membrane elevator (ISO/DIS 19490:2016)

**prEN ISO 22112 en**

Dentistry – Artificial teeth for dental prostheses (ISO/DIS 22112:2016)  
Stomatologija – Umjetni zubi za zubne proteze (ISO/DIS 22112:2016)

**prEN ISO 28319 en**

Dentistry – Laser welding (ISO/DIS 28319:2016)  
Stomatologija – Lasersko zavarivanje (ISO/DIS 28319:2016)

***HN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1*****FprEN 6029 en**

Aerospace series – Rod-ends, adjustable, single fork with UNJ threaded shank min. engagement: 1,5 x thread diameter in corrosion resisting steel – Dimensions and loads – Inch series

**prEN 16602-10 en**

Space product assurance – Product assurance management

**prEN 16602-70-14 en**

Space product assurance – Corrosion

**prEN 16602-70-54 en**

Space product assurance – Ultracleaning of flight hardware

**prEN 16603-10-24 en**

Space engineering – Interface management

**prEN 16603-50-15 en**

Space engineering – CANbus extention protocol

**prEN 16990 en**

Non-type approved light motorized vehicles for the transportation of persons and goods and related facilities – All Terrain Vehicles (ATVs - Quads) and Side by Side Vehicles – Safety requirements and test methods

**HN/TU U1, Opća elektrotehnika 1****FprEN 61360-1:2016 en**

Standard data elements types with associated classification scheme for electric items – Part 1:

Definitions – Principles and methods (IEC 61360-1:201X)

Standardni tipni podatci s pripadajućom klasifikacijskom shemom za električne elemente – 1. dio: Definicije – Načela i metode (IEC 61360-1:201X)

**FprEN 61788-22-1:2016 en**

Superconductivity – Part 22-1: Superconducting electronic devices – Generic specification for sensors and detectors (IEC 61788-22-1:201X)

Supravodljivost – Dio 22-1: Supravodljivi elektronički uređaji – Generička specifikacija za senzore i detektore (IEC 61788-22-1:201X)

**EN 62321-4:2014/FprA1:2016 en**

Determination of certain substances in electrotechnical products – Part 4: Mercury in polymers; metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (IEC 62321-4:2013/am1:201X)

Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – 4. dio: Živa u polimerima, metalima i elektronici po CV-AAS, CV-AFS-a, ICP-OES i ICP-MS (IEC 62321-4:2013/am1:201X)

**FprEN 62321-8:2016 en**

Determination of certain substances in electrotechnical products – Part 8: Phthalates in polymers by Gas Chromatography-Mass Spectrometry (GC-MS), Pyrolysis/Thermal Desorption-Gas

Chromatography-Mass Spectrometry (IEC 62321-8:201X)

Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – 8. dio: Ftalati u polimerima za plinsku kromatografiju – Masena spektometrija (GC-MS), Piroliza/Termalna desorpcija – Plinska kromatografija – Masena spektometrija (IEC 62321-8:201X)

**FprEN 63000:2016 en**

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:201X)

Tehnička dokumentacija za procjenu električnih i elektroničkih proizvoda s obzirom na ograničenje opasnih supstanci (IEC 63000:201X)

**HN/TU V1, Elektronika 1****prEN 50289-1-11 en**

Communication cables – Specifications for test methods – Part 1-11: Electrical test methods – Characteristic impedance, input impedance, return loss

**FprEN 60512-15-2:2016 en**

Connectors for electronic equipment – Tests and measurements – Part 15-2: Connector tests (mechanical) – Test 15b: Insert retention in housing (axial) (IEC 60512-15-2:201X)

**prEN 60679-1:2016 en**

Piezoelectric, dielectric and electrostatic oscillators of assessed quality – Part 1: Generic specification (IEC 60679-1:201X)

**FprEN 60749-4:2016 en**

Semiconductor devices – Mechanical and climatic test methods – Part 4: Damp heat, steady state, highly accelerated stress test (HAST) (IEC 60749-4:201X)

**prEN 60794-2:2016 en**

Optical fibre cables – Part 2: Indoor optical fibre cables – Sectional specification (IEC 60794-2:201X)

**FprEN 61076-2-113:2016 en**

Connectors for electronic equipment – Product requirements – Part 2-113: Circular connector – Detail specification for connectors with data and power contacts with M12 screw-locking for frequency up to 100MHz (IEC 61076-2-113:201X)

**FprEN 61076-3-122:2016 en**

Connectors for electronic equipment – Product requirements – Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and Gigabit applications in harsh environments (IEC 61076-3-122:201X)

**prEN 61280-4-4:2016 en**

Fibre optic communication subsystem test procedures – Part 4-4: Cable plants and links – Polarization mode dispersion measurement for installed links (IEC 61280-4-4:201X)

**prEN 61291-5-2:2016 en**

Optical amplifiers – Part 5-2: Qualification specifications – Reliability qualification for optical fibre amplifiers (IEC 61291-5-2:201X)

**FprEN 61300-2-4:2016 en**

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention (IEC 61300-2-4:201X)

**FprEN 61300-2-9:2016 en**

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-9: Tests – Shock (IEC 61300-2-9:201X)

**FprEN 61605:2016 en**

Fixed inductors for use in electronic and telecommunication equipment – Marking codes (IEC 61605:201X)

**FprEN 62047-28:2016 en**

Semiconductor devices – Micro-electromechanical devices – Part 28: Performance testing method of vibration-driven MEMS electret energy harvesting devices (IEC 62047-28:201X)

**FprEN 62211:2016 en**

Inductive components – Reliability management (IEC 62211:201X)

**prEN 62343:2016 en**

Dynamic modules – General and guidance (IEC 62343:201X)

**prEN 62805-1:2016 en**

Method for measuring photovoltaic (PV) glass – Part 1: Measurement of total haze and spectral distribution of haze (IEC 62805-1:201X)

**prEN 62805-2:2016 en**

Method for measuring photovoltaic (PV) glass – Part 2: Measurement of transmittance and reflectance (IEC 62805-2:201X)

**prEN 62880-1:2016 en**

Semiconductor devices – Stress Migration Test Standard – Part 1 – Copper Stress Migration Test Standard (IEC 62880-1:201X)

**prEN 62884-1:2016 en**

Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 1: Basic methods for the measurement (IEC 62884-1:201X)

**FprEN 63044-1:2016 en**

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 1: General requirements (IEC 63044-1:201X)

**FprEN 63044-3:2016 en**

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 3: Electrical safety requirements (IEC 63044-3:201X)

**FprEN 63044-5-1:2016 en**

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-1: EMC requirements, conditions and test set-up (IEC 63044-5-1:201X)

**FprEN 63044-5-2:2016 en**

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment (IEC 63044-5-2:201X)

**FprEN 63044-5-3:2016 en**

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-3: EMC requirements for HBES/BACS used in industry environment (IEC 63044-5-3:201X)

**EN 140402:2015/FprAA:2016 en**

Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors

**HZN/TU W1, Energetska elektrotehnika 1****HD 60269-3:2010/prA2:2016 en**

Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household applications) – Examples of standardized systems of fuses A to F (IEC 60269-3:2010/am2:201X)

Niskonaponski osigurači – 3. dio: Dodatni zahtjevi za osigurače kojima rukuju nestručne osobe (osigurači uglavnom za kućanstvo ili slične primjene) – Primjeri normiranih sustava osigurača A do F (IEC 60269-3:2010/am2:201X)

**FprEN 61810-2:2016 en**

Electromechanical elementary relays – Part 2: Reliability (IEC 61810-2:201X)  
Elektromehanički osnovni releji – 2. dio: Pouzdanost (IEC 61810-2:201X)

**FprEN 61810-2-1:2016 en**

Electromechanical elementary relays – Part 2-1: Reliability – Procedure for the verification of B10 values (IEC 61810-2-1:201X)

**FprEN 62841-2-1:2016 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 (IEC 62841-2-1:201X)

## 1.4 Povučene hrvatske norme

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavodaza 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 21, Protupožarna i vatrogasna oprema****HRN EN 54-31:2015 en**

Sustavi za otkrivanje i dojavu požara – 31. dio: Multisenzorski detektori požara – Točkasti detektori s kombinacijom osjetnika dima, ugljikovog monoksida i opcionalno osjetnika topline (EN 54-31:2014)  
Fire detection and fire alarm system – Part 31: Multi-sensor fire detectors – Point detectors using a combination of smoke, carbon monoxide and optionally heat sensors (EN 54-31:2014)  
- zamijenjena s: HRN EN 54-31:2016

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

### **HRN ISO 3006:2008 en**

Cestovna vozila – Kotači osobnih automobila za cestovnu uporabu – Metode ispitivanja (ISO 3006:2005)

Road vehicles – Passenger car wheels for road use – Test methods (ISO 3006:2005)

- bez zamjene

### **HRN ISO 3917:2003 en**

Cestovna vozila – Sigurnosna stakla – Metode ispitivanja otpornosti na zračenje, visoku temperaturu, vlagu, vatru i na simulirane vremenske uvjete (ISO 3917:1999)

Road vehicles – Safety glazing materials – Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering (ISO 3917:1999)

- bez zamjene

### **HRS ISO/PAS 3930:2012 en**

Uređaji za mjerjenje emisija ispuha vozila – Mjeriteljski i tehnički zahtjevi; mjeriteljsko provjeravanje i ispitivanje značajka (ISO/PAS 3930:2009)

Instruments for measuring vehicle exhaust emissions – Metrological and technical requirements; Metrological control and performance tests (ISO/PAS 3930:2009)

- bez zamjene

### **HRN ISO 5775-2:2005 en**

Gume i naplatci za bicikle – 2. dio: Naplatci (ISO 5775-2:1996+Amd 1:2001)

Bicycle tyres and rims – Part 2: Rims (ISO 5775-2:1996+Amd 1:2001)

- bez zamjene

### **HRN ISO 7576:2004 en**

Cestovna vozila – Dvostupanjski filtri goriva za motore s kompresijskim paljenjem – Ugradbene i priključne mjere (ISO 7576:1990)

Road vehicles – Two-stage fuel filters for compression-ignition engines – Mounting and connecting dimensions (ISO 7576:1990)

- bez zamjene

### **HRN ISO 7637-1:2002 en**

Cestovna vozila – Električne smetnje koje se šire vođenjem i sprezanjem – 1. dio: Definicije i općenito (ISO 7637-1:2002)

Road vehicles – Electrical disturbances from conduction and coupling – Part 1: Definitions and general considerations (ISO 7637-1:2002)

- bez zamjene

### **HRN ISO 7637-1:2002/A1:2013 en**

Cestovna vozila – Električne smetnje koje nastaju vođenjem i sprezanjem – 1. dio: Definicije i općenito (ISO 7637-1:2002/Amd 1:2008)

Road vehicles – Electrical disturbances from conduction and coupling – Part 1: Definitions and general considerations (ISO 7637-1:2002/Amd 1:2008)

- bez zamjene

### **HRN ISO 7750-1:2004 en**

Gospodarska vozila – Dimenzije uložaka za filtre zraka – 1. dio: Tipovi A i B (ISO 7750-1:1992)

Commercial vehicles – Dimensions of air filter elements – Part 1: Types A and B (ISO 7750-1:1992)

- bez zamjene

### **HRN ISO 7750-2:2004 en**

Cestovna vozila – Ulošci za filtre zraka za gospodarska vozila – Mjere – 2. dio: Tipovi C i D (ISO 7750-2:1984)

Road vehicles – Air filter elements for commercial vehicles – Dimensions – Part 2: Types C and D (ISO 7750-2:1984)

- bez zamjene

**HRN ISO 10571:2013 en**

Gume za pokretne dizalice i slične posebne strojeve (ISO 10571:2011)  
Tyres for mobile cranes and similar specialized machines (ISO 10571:2011)  
- bez zamjene

**HRN ISO 10997:2005 en**

Osobna vozila – Bočni udar deformabilnom pomičnom zaprekom – Ispitivanje vozila u prirodnoj veličini (ISO 10997:1996)  
Passenger vehicles – Side impact with deformable moving barrier – Full scale test (ISO 10997:1996)  
- bez zamjene

**HRN ISO 11898-1:2003 en**

Cestovna vozila – Regulator mrežnog područja (CAN) – 1. dio: Sloj veze između podataka i fizička signalizacija (ISO 11898-1:2003)  
Road vehicles – Controller area network (CAN) – Part 1: Data link layer and physical signalling (ISO 11898-1:2003)  
- bez zamjene

**HRN ISO 11898-1:2003/Ispr.1:2012 en**

Cestovna vozila – Regulator mrežnog područja (CAN) – 1. dio: Sloj veze između podataka i fizička signalizacija (ISO 11898-1:2003/Cor 1:2006)  
Road vehicles – Controller area network (CAN) – Part 1: Data link layer and physical signalling (ISO 11898-1:2003/Cor 1:2006)  
- bez zamjene

**HRN ISO 12103-1:2004 en**

Cestovna vozila – Ispitna prašina za ocjenjivanje filtra – 1. dio: Ispitna prašina "Arizona"  
(ISO 12103-1:1997)  
Road vehicles – Test dust for filter evaluation – Part 1: Arizona test dust (ISO 12103-1:1997)  
- bez zamjene

**HRN ISO/TR 13214:2003 en**

Cestovna vozila – Sustavi za držanje djeteta – Pregledni prikaz pravilnika i norma (ISO/TR 13214:1996)  
Road vehicles – Child restraint systems – Compilation of regulations and standards (ISO/TR 13214:1996)  
- bez zamjene

**HRN EN 13444-1:2001 en**

Cestovna vozila na električni pogon – Mjerenje emisije hibridnih vozila – 1. dio: Toplinsko - električna hibridna vozila (EN 13444-1:2001)  
Electrically propelled road vehicles – Measurement of emissions of hybrid vehicles – Part 1: Thermal - electric hybrid vehicles (EN 13444-1:2001)  
- bez zamjene

**HRN ISO 15031-3:2004 en**

Cestovna vozila – Prijenos podataka između vozila i vanjske opreme za dijagnostiku koja se odnosi na emisiju – 3. dio: Spojnik za dijagnostiku i odgovarajuće strujne krugove, specifikacije i uporaba (ISO 15031-3:2004)  
Road vehicles – Communication between vehicle and external equipment for emissions-related diagnostics – Part 3: Diagnostic connector and related electrical circuits, specification and use (ISO 15031-3:2004)  
- bez zamjene

**HRN ISO 15500-1:2001 en**

Cestovna vozila – Dijelovi i sklopovi sustava za stlačeni prirodni plin (CNG) kao goriva za pogon vozila  
– 1. dio: Opći zahtjevi i definicije (ISO 15500-1:2000)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 1: General requirements and definitions (ISO 15500-1:2000)  
- bez zamjene

**HRN ISO 15500-7:2003 en**

Cestovna vozila – Sastavni dijelovi sustava za opskrbu stlačenim prirodnim plinom (SPP) kao gorivom  
– 7.dio: Ubrizgač plina (ISO 15500-7:2002)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 7: Gas injector (ISO 15500-7:2002)  
- bez zamjene

**HRN ISO 15500-8:2001 en**

Cestovna vozila – Sastavni dijelovi sustava za opskrbu stlačenim prirodnim plinom (SPP) kao gorivom  
– 8. dio: Tlakomjer (ISO 15500-8:2001)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 8: Pressure indicator (ISO 15500-8:2001)  
- bez zamjene

**HRN ISO 15500-10:2001 en**

Cestovna vozila – Sastavni dijelovi sustava za opskrbu stlačenim prirodnim plinom (SPP) kao gorivom  
– 10. dio: Regulator protoka (ISO 15500-10:2001)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 10: Gas – flow adjuster (ISO 15500-10:2001)  
- bez zamjene

**HRN ISO 15500-11:2001 en**

Cestovna vozila – Sastavni dijelovi sustava za opskrbu stlačenim prirodnim plinom (SPP) kao gorivom  
– 11. dio: Mješač plin/zrak (ISO 15500-11:2001)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 11: Gas/air mixer (ISO 15500-11:2001)  
- bez zamjene

**HRN ISO 15500-12:2001 en**

Cestovna vozila – Sastavni dijelovi sustava za opskrbu stlačenim prirodnim plinom (SPP) kao gorivom  
– 12. dio: Sigurnosni ventil za osiguranje od previsokog tlaka (ISO 15500-12:2001)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 12: Pressure relief valve (PRV) (ISO 15500-12:2001)  
- bez zamjene

**HRN ISO 15500-15:2001 en**

Cestovna vozila – Dijelovi i sklopovi sustava za stlačeni prirodni plin (CNG) kao goriva za pogon vozila  
– 15. dio: Plinoneporoposno kućište i cijevi za prozračivanje (ISO 15500-15:2001)  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 15: Gas -tight housing and ventilation hose (ISO 15500-15:2001)  
- bez zamjene

**HZN/TO 25, Ljevarstvo****HRN EN 10228-1:2002 en**

Nerazorno ispitivanje čeličnih otkovaka – 1. dio: Ispitivanje magnetskim česticama (EN 10228-1:1999)  
Non-destructive testing of steel forgings – Part 1: Magnetic particle inspection (EN 10228-1:1999)  
- zamjenjena s: HRN EN 10228-1:2016

**HRN EN 10228-2:2002 en**

Nerazorno ispitivanje čeličnih otkovaka – 2. dio: Ispitivanje penetrantima (EN 10228-2:1998)  
Non-destructive testing of steel forgings – Part 2: Penetrant testing (EN 10228-2:1998)  
- zamjenjena s: HRN EN 10228-2:2016

**HRN EN 10228-3:2002 en**

Nerazorno ispitivanje čeličnih otkovaka – 3. dio: Ultrazvučno ispitivanje feritnih ili martenzitnih čeličnih otkovaka (EN 10228-3:1998)

Non-destructive testing of steel forgings – Part 3: Ultrasonic testing of ferritic or martensitic steel forgings (EN 10228-3:1998)

- zamijenjena s: HRN EN 10228-3:2016

**HRN EN 10228-4:2002 en**

Nerazorno ispitivanje čeličnih otkivaka – 4. dio: Ultrazvučno ispitivanje austenitno-feritnih nehrđajućih čeličnih otkivaka (EN 10228-4:1999)

Non-destructive testing of steel forgings – Part 4: Ultrasonic testing of austenitic-ferritic stainless steel forgings (EN 10228-4:1999)

- zamijenjena s: HRN EN 10228-4:2016

**HNZ/TO 28, *Naftni proizvodi i maziva*****HRN EN ISO 22854:2014 en**

Tekući naftni proizvodi – Određivanje vrste ugljikovodika i oksigenata u gorivu za motorna vozila – Metoda višedimenzionalne plinske kromatografije (ISO 22854:2014; EN ISO 22854:2014)

Liquid petroleum products – Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel – Multidimensional gas chromatography method (ISO 22854:2014; EN ISO 22854:2014)

- zamijenjena s: HRN EN ISO 22854:2016

**HNZ/TO 34/PO 10, *Poljoprivredni i prehrabreni proizvodi; Senzorske analize*****HRN EN ISO 13299:2010 en**

Senzorske analize – Metodologija – Opće upute za utvrđivanje senzorskog profila (ISO 13299:2003; EN ISO 13299:2010)

Sensory analysis – Methodology – General guidance for establishing a sensory profile (ISO 13299:2003; EN ISO 13299:2010)

- zamijenjena s: HRN EN ISO 13299:2016

**HNZ/TO 35, *Boje i lakovi*****HRN EN ISO 4624:2004 en**

Boje i lakovi – Ispitivanje prionljivosti vlačnom metodom (ISO 4624:2002; EN ISO 4624:2003)

Paints and varnishes – Pull-off test for adhesion (ISO 4624:2002; EN ISO 4624:2003)

- zamijenjena s: HRN EN ISO 4624:2016

**HRN EN ISO 7784-1:2006 en**

Boje i lakovi – Određivanje otpornosti na habanje – 1. dio: Metoda s rotirajućim kotačem pokrivenim abrazivnim papirom (ISO 7784-1:1997; EN ISO 7784-1:2006)

Paints and varnishes – Determination of resistance to abrasion – Part 1: Rotating abrasive-paper-covered wheel method (ISO 7784-1:1997; EN ISO 7784-1:2006)

- zamijenjena s: HRN EN ISO 7784-1:2016

**HRN EN ISO 7784-2:2006 en**

Boje i lakovi – Određivanje otpornosti na habanje – 2. dio: Metoda s rotirajućim abrazivnim gumenim kotačem (ISO 7784-2:1997; EN ISO 7784-2:2006)

Paints and varnishes – Determination of resistance to abrasion – Part 2: Rotating abrasive rubber wheel method (ISO 7784-2:1997; EN ISO 7784-2:2006)

- zamijenjena s: HRN EN ISO 7784-2:2016

**HRN EN ISO 7784-3:2006 en**

Boje i lakovi – Određivanje otpornosti na habanje – 3. dio: Metoda s naizmjeničnim gibanjem probnih ploča (ISO 7784-3:2000; EN ISO 7784-3:2006)

Paints and varnishes – Determination of resistance to abrasion – Part 3: Reciprocating test panel method (ISO 7784-3:2000; EN ISO 7784-3:2006)

- zamijenjena s: HRN EN ISO 7784-3:2016

**HRN ISO 16482-1:2013 en**

Veziva za boje i lakove – Određivanje količine nehlapljivih tvari vodenih disperzija smole – 1. dio: Metoda sušenja (ISO 16482-1:2013)

Binders for paints and varnishes – Determination of the non-volatile-matter content of aqueous rosin-resin dispersions – Part 1: Oven method (ISO 16482-1:2013)

- zamijenjena s: HRN EN ISO 16482-1:2016

**HRN ISO 16482-2:2013 en**

Veziva za boje i lakove – Određivanje količine nehlapljivih tvari vodenih disperzija smole – 2. dio: Mikrovalna metoda (ISO 16482-2:2013)

Binders for paints and varnishes – Determination of the non-volatile-matter content of aqueous rosin-resin dispersions – Part 2: Microwave method (ISO 16482-2:2013)

- zamijenjena s: HRN EN ISO 16482-2:2016

**HRN EN ISO 16773-1:2008 en**

Boje i lakovi – Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 1. dio: Nazivi i definicije (ISO 16773-1:2007; EN ISO 16773-1:2007)

Paints and varnishes – Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens – Part 1: Terms and definitions (ISO 16773-1:2007; EN ISO 16773-1:2007)

- zamijenjena s: HRN EN ISO 16773-1:2016

**HRN EN ISO 16773-2:2008 en**

Boje i lakovi – Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 2. dio: Prikupljanje podataka (ISO 16773-2:2007; EN ISO 16773-2:2007)

Paints and varnishes – Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens – Part 2: Collection of data (ISO 16773-2:2007; EN ISO 16773-2:2007)

- zamijenjena s: HRN EN ISO 16773-2:2016

**HRN EN ISO 16773-3:2011 en**

Boje i lakovi – Elektrokemijska impedancijska spektroskopija (EIS) na visokootpornim prevučenim uzorcima – 3. dio: Obrađivanje i analiza podataka iz slijepih ćelija (ISO 16773-3:2009; EN ISO 16773-3:2009)

Paints and varnishes – Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens – Part 3: Processing and analysis of data from dummy cells (ISO 16773-3:2009; EN ISO 16773-3:2009)

- zamijenjena s: HRN EN ISO 16773-3:2016

**HNZ/TO 43, Akustika****HRN ISO 1996-1:2004 en**

Akustika – Opis, mjerjenje i utvrđivanje buke okoliša – 1. dio: Osnovne veličine i postupci utvrđivanja (ISO 1996-1:2003)

Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures (ISO 1996-1:2003)

- zamijenjena s: HRN ISO 1996-1:2016

## **HN/T 44, Zavarivanje i srodnji postupci**

### **HRN EN ISO 15614-8:2003 en**

Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 8. dio: Zavarivanje cijevi na cijevnu stijenu (ISO 15614-8:2002; EN ISO 15614-8:2002) Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 8: Welding of tubes to tube-plate joints (ISO 15614-8:2002; EN ISO 15614-8:2002)  
- zamjenjena s: HRN EN ISO 15614-8:2016

## **HN/T 71, Beton**

### **HRN EN 1504-8:2005 en**

Proizvodi i sustavi za zaštitu i popravak betonskih konstrukcija – Definicije, zahtjevi, kontrola kvalitete i vrednovanje sukladnosti – 8. dio: Kontrola kvalitete i vrednovanje sukladnosti (EN 1504-8:2004) Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 8: Quality control and evaluation of conformity (EN 1504-8:2004)  
- zamjenjena s: HRN EN 1504-8:2016

## **HN/T 120, Koža i obuća**

### **HRN EN 12746:2004 en**

Obuća – Metode ispitivanja tabanica i uložnih tabanica – Upijanje i otpuštanje vode (EN 12746:2000) Footwear – Test methods for insoles and insocks – Water absorption and desorption (EN 12746:2000)  
- zamjenjena s: HRN EN ISO 22649:2016

### **HRN EN 12746:2004/A1:2008 en**

Obuća – Metode ispitivanja za temeljne tabanice i uložne tabanice – Upijanje i otpuštanje vode (EN 12746:2000/A1:2005)  
Footwear – Test methods for insoles and insocks – Water absorption and desorption (EN 12746:2000/A1:2005)  
- zamjenjena s: HRN EN ISO 22649:2016

### **HRN EN 13512:2008 en**

Obuća – Metode ispitivanja gornjišta i podstave – Otpornost na savijanje (EN 13512:2001)  
Footwear – Test methods for uppers and lining – Flex resistance (EN 13512:2001)  
- zamjenjena s: HRN EN ISO 17694:2016

### **HRN EN 13514:2008 en**

Obuća – Metode ispitivanja za gornjišta – Otpornost na raslojavanje (EN 13514:2001)  
Footwear – Test methods for uppers – Delamination resistance (EN 13514:2001)  
- zamjenjena s: HRN EN ISO 17698:2016

### **HRN EN 13517:2008 en**

Obuća – Metode ispitivanja gornjišta, podstave i uložnih tabanica – Migracija bojila (EN 13517:2001)  
Footwear – Test methods for uppers, lining and insocks – Colour migration (EN 13517:2001)  
- zamjenjena s: HRN EN ISO 17701:2016

### **HRN EN 13572:2008 en**

Obuća – Metode ispitivanja gornjišta, podstave i uložnih tabanica – Čvrstoča šava (EN 13572:2001)  
Footwear – Test methods for uppers, lining and insocks – Seam strength (EN 13572:2001)  
- zamjenjena s: HRN EN ISO 17697:2016

### **HRI CEN/TR 16417:2012 en**

Obuća – Smjernice za tvari vrlo visokog značaja za industriju obuće (Dodatak XIV prema REACH-u) (CEN/TR 16417:2012)  
Footwear – Footwear industry guideline for substances of very high concern (Annex XIV of REACH) (CEN/TR 16417:2012)  
- zamjenjena s: HRI CEN/TR 16417:2016

## **HN/T 135, *Nerazorna ispitivanja***

**HRN EN 1330-7:2008 en,fr,de**

Nerazorno ispitivanje – Nazivlje – 7. dio: Nazivi koji se upotrebljavaju u ispitivanju magnetskim česticama (EN 1330-7:2005)

Non-destructive testing – Terminology – Part 7: Terms used in magnetic particle testing  
(EN 1330-7:2005)

- zamijenjena s: HRN EN ISO 12707:2016

## **HN/T 138, *Plastične cijevi, spojnice i ventili za prijenos tekućina***

**HRN EN 12200-1:2002 en**

Plastični cijevni sustavi oborinskih voda za nadzemnu uporabu – Neomekšani poli(vinil-klorid) (PVC-U)  
– 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 12200-1:2000)

Plastics rainwater piping systems for above ground external use – Unplasticized poly(vinyl)chloride  
(PVC-U) – Part 1: Specifications for pipes, fittings and the system (EN 12200-1:2000)

- zamijenjena s: HRN EN 12200-1:2016

## **HN/T 165, *Drvene konstrukcije***

**HRN EN 338:2010 en**

Konstrukcijsko drvo – Razredi čvrstoće (EN 338:2009)

Structural timber – Strength classes (EN 338:2009)

- zamijenjena s: HRN EN 338:2016

## **HN/T 196, *Prirodni kamen***

**HRN EN 14617-2:2008 en**

Kameni aglomerat – Ispitne metode – 2. dio: Određivanje čvrstoće pri savijanju (savijanje)  
(EN 14617-2:2008)

Agglomerated stone – Test methods – Part 2: Determination of flexural strength (bending)  
(EN 14617-2:2008)

- zamijenjena s: HRN EN 14617-2:2016

## **HN/T 215, *Medicinska informatika***

**HRN EN ISO 21549-5:2008 en**

Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 5. dio: Identifikacijski podaci  
(ISO 21549-5:2008; EN ISO 21549-5:2008)

Health informatics – Patient healthcard data – Part 5: Identification data (ISO 21549-5:2008;  
EN ISO 21549-5:2008)

- zamijenjena s: HRN EN ISO 21549-5:2016

## **HN/T 218, *Drvo***

**HRN EN 1910:2013 en**

Drveni podovi i drvene obloge zidova i stropova – Određivanje stabilnosti dimenzija (EN 1910:2013)

Wood flooring and wood panelling and cladding – Determination of dimensional stability  
(EN 1910:2013)

- zamijenjena s: HRN EN 1910:2016

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

### **HRN EN 13719:2004 en**

Geotekstili i proizvodi srodni s geotekstilom – Određivanje dugotrajne zaštitne učinkovitosti geotekstila u dodiru s geosintetičkim barijerama (EN 13719:2002)

Geotextiles and geotextile-related products – Determination of the long term protection efficiency of geotextiles in contact with geosynthetic barriers (EN 13719:2002)

- zamijenjena s: HRN EN 13719:2016

### **HRN EN 13719/AC:2007 en**

Geotekstili i proizvodi srodni s geotekstilom – Određivanje dugotrajne zaštitne učinkovitosti geotekstila u dodiru s geosintetičkim barijerama (EN 13719:2002/AC:2005)

Geotextiles and geotextile-related products – Determination of the long term protection efficiency of geotextiles in contact with geosynthetic barriers (EN 13719:2002/AC:2005)

- zamijenjena s: HRN EN 13719:2016

## **HZN/TO 238, Čvrsta biogoriva**

### **HRN EN 15149-1:2010 en**

Čvrsta biogoriva – Određivanje granulometrijskoga sastava – 1. dio: Oscilacijsko prosijavanje upotrebom sita promjera 1 mm i više (EN 15149-1:2010)

Solid biofuels – Determination of particle size distribution – Part 1: Oscillating screen method using sieve apertures of 1 mm and above (EN 15149-1:2010)

- zamijenjena s: HRN EN ISO 17827-1:2016

### **HRN EN 15149-2:2010 en**

Čvrsta biogoriva – Određivanje granulometrijskoga sastava – 2. dio: Vibracijsko prosijavanje upotrebom sita promjera 3,15 mm i manje (EN 15149-2:2010)

Solid biofuels – Determination of particle size distribution – Part 2: Vibrating screen method using sieve apertures of 3,15 mm and below (EN 15149-2:2010)

- zamijenjena s: HRN EN ISO 17827-2:2016

### **HRN EN 16126:2012 en**

Čvrsta biogoriva – Određivanje granulometrijskoga sastava raspadnutih peleta (EN 16126:2012)

Solid biofuels – Determination of particle size distribution of disintegrated pellets (EN 16126:2012)

- zamijenjena s: HRN EN ISO 17830:2016

## **HZN/TO 502, Plinski uređaji**

### **HRN EN 88-1:2012 en**

Regulatori tlaka i pripadajuće sigurnosne naprave za plinske uređaje – 1. dio: Regulatori tlaka za tlak sve do 50 kPa i uključujući 50 kPa (EN 88-1:2011)

Pressure regulators and associated safety devices for gas appliances – Part 1: Pressure regulators for inlet pressures up to and including 50 kPa (EN 88-1:2011)

- zamijenjena s: HRN EN 88-1:2016

### **HRN EN 203-2-1:2008 en**

Plinski uređaji za velike kuhinje – Dio 2-1: Posebni zahtjevi – Otvoreni plamenici i wok plamenici (EN 203-2-1:2005)

Gas heated catering equipment – Part 2-1: Specific requirements – Open burners and wok burners (EN 203-2-1:2005)

- zamijenjena s: HRN EN 203-2-1:2015

### **HRN EN 203-2-3:2008 en**

Plinski uređaji za velike kuhinje – Dio 2-3: Posebni zahtjevi – Kotlovi (EN 203-2-3:2005)

Gas heated catering equipment – Part 2-3: Specific requirements – Boiling pans (EN 203-2-3:2005)

- zamijenjena s: HRN EN 203-2-3:2015

## **HN/T 503, Metalni materijali**

### **HRN EN 10314:2005 en**

Postupak određivanja najmanjih vrijednosti granice razvlačenja čelika pri povišenim temperaturama (EN 10314:2002)

Method for the derivation of minimum values of proof strength of steel at elevated temperatures (EN 10314:2002)

- zamijenjena s: HRN EN 10314:2016

### **HRN EN 12449:2013 en**

Bakar i legure bakra – Bešavne okrugle cijevi za opće namjene (EN 12449:2012)

Copper and copper alloys – Seamless, round tubes for general purposes (EN 12449:2012)

- zamijenjena s: HRN EN 12449:2016

## **HN/T 504, Korozija i zaštita metala i legura**

### **HRN EN ISO 2178:1999 en**

Nemagnetske prevlake na magnetskim podlogama – Mjerenje debljine prevlake – Magnetska metoda (ISO 2178:1982; EN ISO 2178:1995)

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method (ISO 2178:1982; EN ISO 2178:1995)

- zamijenjena s: HRN EN ISO 2178:2016

### **HRN ISO 2179:2000 en**

Elektroplatirane prevlake od kositar-nikalne legure – Specifikacija i metode ispitivanja (ISO 2179:1986)

Electroplated coatings of tin-nickel alloy – Specification and test methods (ISO 2179:1986)

- zamijenjena s: HRN EN ISO 2179:2016

### **HRN ISO 4519:1999 en**

Elektronanesene metalne prevlake i srodne dorade – Postupci uzimanja uzoraka za pregled po svojstvima (ISO 4519:1980)

Electrodeposited metallic coatings and related finishes – Sampling procedures for inspection by attributes (ISO 4519:1980)

- zamijenjena s: HRN EN ISO 4519:2016

### **HRN ISO 10309:2001 en**

Metalne prevlake – Ispitivanja poroznosti – Ispitivanje Ferroxyl-om (ISO 10309:1994)

Metallic coatings – Porosity tests – Ferroxyl test (ISO 10309:1994)

- zamijenjena s: HRN EN ISO 10309:2016

### **HRN EN ISO 28706-4:2012 en**

Staklasti i porculanski emajli – Određivanje otpornosti na kemijsku koroziju – 4. dio: Određivanje otpornosti na kemijsku koroziju pomoću lužnatih tekućina upotrebom cilindrične posude (ISO 28706-4:2008; EN ISO 28706-4:2011)

Vitreous and porcelain enamels – Determination of resistance to chemical corrosion – Part 4: Determination of resistance to chemical corrosion by alkaline liquids using a cylindrical vessel (ISO 28706-4:2008; EN ISO 28706-4:2011)

- zamijenjena s: HRN EN ISO 28706-4:2016

## **HN/T 505, Prijenos i distribucija plina**

### **HRN EN 1473:2008 en**

Instalacije i oprema za ukapljeni prirodni plin – Projektiranje instalacija na obali (EN 1473:2007)

Installation and equipment for liquefied natural gas – Design of onshore installations (EN 1473:2007)

- zamijenjena s: HRN EN 1473:2016

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

### **HRN EN 14154-1:2012 en**

Vodomjeri – 1. dio: Opći zahtjevi (EN 14154-1:2005+A2:2011)  
Water meters – Part 1: General requirements (EN 14154-1:2005+A2:2011)  
- zamijenjena s: HRN EN ISO 4064-1:2014, HRN EN ISO 4064-4:2014

### **HRN EN 14154-2:2012 en**

Vodomjeri – 2. dio: Ugradnja i uvjeti uporabe (EN 14154-2:2005+A2:2011)  
Water meters – Part 2: Installation and conditions of use (EN 14154-2:2005+A2:2011)  
- zamijenjena s: HRN EN ISO 4064-5:2014

### **HRN EN 14154-3:2012 en**

Vodomjeri – 3. dio: Ispitne metode i oprema (EN 14154-3:2005+A2:2011)  
Water meters – Part 3: Test methods and equipment (EN 14154-3:2005+A2:2011)  
- zamijenjena s: HRN EN ISO 4064-2:2014

### **HRN EN 45501:2004 hr**

Mjeriteljski aspekti neautomatskih vaga (EN 45501:1992+AC:1993)  
Metrological aspects of non-automatic weighing instruments (EN 45501:1992+AC:1993)  
- zamijenjena s: HRN EN 45501:2015

## **HZN/TO 519, Adhezivi**

### **HRN EN 14814:2008 en**

Adhezivi za sustave termoplastičnih cijevi za kapljevine pod pritiskom – Specifikacije (EN 14814:2007)  
Adhesives for thermoplastic piping systems for fluids under pressure – Specifications  
(EN 14814:2007)  
- zamijenjena s: HRN EN 14814:2016

### **HRN EN 16254:2014 en**

Adhezivi – Polimerizirani izocijanat u emulziji za nosive drvene konstrukcije – Klasifikacija i zahtjevi izvedbe (EN 16254:2013)  
Adhesives – Emulsion polymerized isocyanate (EPI) for load-bearing timber structures – Classification and performance requirements (EN 16254:2013)  
- zamijenjena s: HRN EN 16254:2016

## **HZN/TO 521, Usluge održavanja**

### **HRN EN 13269:2007 en**

Održavanje – Upute za pripremu ugovora o održavanju (EN 13269:2006)  
Maintenance – Guideline on preparation of maintenance contracts (EN 13269:2006)  
- zamijenjena s: HRN EN 13269:2016

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

### **HRS CEN/TS 15531-5:2011 en**

Javni prijevoz – Sučelje servisa za informiranje u realnom vremenu o statusu javnog prijevoza – 5. dio:  
Funkcionalno sučelje servisa – Razmjena situacija (CEN/TS 15531-5:2011)  
Public transport – Service interface for real-time information relating to public transport operations –  
Part 5: Functional service interfaces – Situation Exchange (CEN/TS 15531-5:2011)  
- zamijenjena s: HRS CEN/TS 15531-5:2016

### **HRN EN ISO 24534-3:2011 en**

Automatska identifikacija vozila i opreme – Identifikacija elektroničke registracije (ERI) vozila – 3. dio:  
Podaci o vozilu (ISO 24534-3:2010; EN ISO 24534-3:2010)  
Automatic vehicle and equipment identification – Electronic Registration Identification (ERI) for  
vehicles – Part 3: Vehicle data (ISO 24534-3:2010; EN ISO 24534-3:2010)  
- zamijenjena s: HRN EN ISO 24534-3:2016

## **HNZ/TO 528, Oprema za željeznicu**

### **HRN EN 13230-1:2009 en**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 1. dio: Opći zahtjevi (EN 13230-1:2009)

Railway applications – Track – Concrete sleepers and bearers – Part 1: General requirements (EN 13230-1:2009)

- zamijenjena s: HRN EN 13230-1:2016

### **HRN EN 13230-2:2009 en**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 2. dio: Prednapeti jednodijelni pragovi (EN 13230-2:2009)

Railway applications – Track – Concrete sleepers and bearers – Part 2: Prestressed monoblock sleepers (EN 13230-2:2009)

- zamijenjena s: HRN EN 13230-2:2016

### **HRN EN 13230-3:2009 en**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 3. dio: Dvodijelni armirani pragovi (EN 13230-3:2009)

Railway applications – Track – Concrete sleepers and bearers – Part 3: Twin-block reinforced sleepers (EN 13230-3:2009)

- zamijenjena s: HRN EN 13230-3:2016

### **HRN EN 13230-4:2009 en**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 4. dio: Prednapeti pragovi za skretnice i križišta (EN 13230-4:2009)

Railway applications – Track – Concrete sleepers and bearers – Part 4: Prestressed bearers for switches and crossings (EN 13230-4:2009)

- zamijenjena s: HRN EN 13230-4:2016

### **HRN EN 13230-5:2009 en**

Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 5. dio: Posebni elementi (EN 13230-5:2009)

Railway applications – Track – Concrete sleepers and bearers – Part 5: Special elements (EN 13230-5:2009)

- zamijenjena s: HRN EN 13230-5:2016

### **HRN EN 15313:2011 en**

Željeznički sustav – Zahtijevani postupci za eksploataciju osovinskih sklopova – Održavanje osovinskih sklopova u eksploataciji i skladištenju (EN 15313:2010)

Railway applications – In-service wheelset operation requirements – In-service and off-vehicle wheelset maintenance (EN 15313:2010)

- zamijenjena s: HRN EN 15313:2016

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

### **HRN ISO 8566-2:2003 en**

Granici – Kabine – 2. dio: Mobilni granici (ISO 8566-2:1995)

Cranes – Cabins – Part 2: Mobile cranes (ISO 8566-2:1995)

- zamijenjena s: HRN ISO 8566-2:2016

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

### **HRN EN ISO 4892-1:2004 en**

Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 1. dio: Opće upute (ISO 4892-1:1999; EN ISO 4892-1:2000)

Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance (ISO 4892-1:1999; EN ISO 4892-1:2000)

- zamijenjena s: HRN EN ISO 4892-1:2016

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

### **HRN EN 12697-16:2004 en**

Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 16. dio: Abrazija uporabom guma s čavlima (EN 12697-16:2004)

Bituminous mixtures – Test methods for hot mix asphalt – Part 16: Abrasion by studded tyres (EN 12697-16:2004)

- zamijenjena s: HRN EN 12697-16:2016

### **HRN EN 12697-35:2008 en**

Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 35. dio: Laboratorijsko miješanje (EN 12697-35:2004+A1:2007)

Bituminous mixtures – Test methods for hot mix asphalt – Part 35: Laboratory mixing (EN 12697-35:2004+A1:2007)

- zamijenjena s: HRN EN 12697-35:2016

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

### **HRN EN 13121-3:2010 en**

Spremnici iz plastike ojačane staklenim vlaknima (GRP) i posude za nadzemnu upotrebu – 3. dio: Projektiranje i izrada (EN 13121-3:2008+A1:2010)

GRP tanks and vessels for use above ground – Part 3: Design and workmanship (EN 13121-3:2008+A1:2010)

- zamijenjena s: HRN EN 13121-3:2016

### **HRN EN 13121-3:2010/Ispr.1:2011 en**

Spremnici iz plastike ojačane staklenim vlaknima (GRP) i posude za nadzemnu upotrebu – 3. dio: Projektiranje i izrada (EN 13121-3:2008+A1:2010/AC:2011)

GRP tanks and vessels for use above ground – Part 3: Design and workmanship (EN 13121-3:2008+A1:2010/AC:2011)

- zamijenjena s: HRN EN 13121-3:2016

### **HRN EN 13275:2004 en**

Kriogenične posude – Pumpe za kriogenične uvjete (EN 13275:2000)

Cryogenic vessels – Pumps for cryogenic service (EN 13275:2000)

- zamijenjena s: HRN EN ISO 24490:2016

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

### **HRN EN 13055-1:2003 en**

Lagani agregati – 1. dio: Lagani agregati za beton, mort i mort za zalijevanje (EN 13055-1:2002)

Lightweight aggregates – Part 1: Lightweight aggregates for concrete, mortar and grout (EN 13055-1:2002)

- zamijenjena s: HRN EN 13055:2016

**HRN EN 13055-1:2003/AC:2006 en**

Lagani agregati – 1. dio: Lagani agregati za beton, mort i mort za zalijevanje  
(EN 13055-1:2002/AC:2004)

Lightweight aggregates – Part 1: Lightweight aggregates for concrete, mortar and grout  
(EN 13055-1:2002/AC:2004)

- zamijenjena s: HRN EN 13055:2016

**HRN EN 13055-2:2007 en**

Lagani agregati – 2. dio: Lagani agregati za bitumenske mješavine i površinske obrade i za primjenu u nevezanim i vezanim mješavinama (EN 13055-2:2004)

Lightweight aggregates – Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications (EN 13055-2:2004)

- zamijenjena s: HRN EN 13055:2016

**HZN/TO 536, Vrata, prozori i staklo u graditeljstvu****HRN EN 14600:2008 en**

Vrata i otvarajući prozori s otpornošću na požar i/ili kontrolom propusnosti dima – Zahtjevi i razredba  
(EN 14600:2005)

Doorsets and openable windows with fire resisting and/or smoke control characteristics – Requirements and classification (EN 14600:2005)

- bez zamjene

**HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija****HRN EN ISO 3040:2013 en**

Geometrijske specifikacije proizvoda (GSP) – Kotiranje i tolerancije – Stošci (ISO 3040:2009; EN ISO 3040:2012)

Geometrical product specifications (GPS) – Dimensioning and tolerancing – Cones (ISO 3040:2009; EN ISO 3040:2012)

- zamijenjena s: HRN EN ISO 3040:2016

**HZN/TO 539, Kemijski dezinficijensi i antiseptici****HRN EN 1657:2008 en**

Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu fungicidne djelotvornosti ili djelotvornosti na kvasce kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u veterinarstvu – Metoda ispitivanja i zahtjevi (faza 2, korak 1) (EN 1657:2005+AC:2007)

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area – Test method and requirements (phase 2, step 1) (EN 1657:2005+AC:2007)

- zamijenjena s: HRN EN 1657:2016

**HZN/TO 548, Konstrukcijski eurokodovi****HRN EN 1993-1-4:2014/NA:2014 hr-en**

Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-4: Opća pravila – Dodatna pravila za nehrđajuće čelike – Nacionalni dodatak

Eurocode 3: Design of steel structures – Part 1-4: General rules – Supplementary rules for stainless steels – National Annex

- zamijenjena s: HRN EN 1993-1-4:2014/NA:2016

**HRN EN 1997-1:2012/NA:2012 hr-en**

Eurokod 7: Geotehničko projektiranje – 1. dio: Opća pravila – Nacionalni dodatak

Eurocode 7: Geotechnical design – Part 1: General rules – National Annex

- zamijenjena s: HRN EN 1997-1:2012/NA:2016

## **HN/T 550, Opskrba vodom**

### **HRN EN 902:2010 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Vodikov peroksid (EN 902:2009)

Chemicals used for treatment of water intended for human consumption – Hydrogen peroxide (EN 902:2009)

- zamijenjena s: HRN EN 902:2016

### **HRN EN 937:2010 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Klor (EN 937:2009)

Chemicals used for treatment of water intended for human consumption – Chlorine (EN 937:2009)

- zamijenjena s: HRN EN 937:2016

### **HRN EN 938:2010 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev klorit (EN 938:2009)

Chemicals used for treatment of water intended for human consumption – Sodium chlorite (EN 938:2009)

- zamijenjena s: HRN EN 938:2016

### **HRN EN 939:2010 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Klorovodična kiselina (EN 939:2009)

Chemicals used for treatment of water intended for human consumption – Hydrochloric acid (EN 939:2009)

- zamijenjena s: HRN EN 939:2016

### **HRN EN 12671:2010 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Klorov dioksid proizveden in situ (EN 12671:2009)

Chemicals used for treatment of water intended for human consumption – Chlorine dioxide generated in situ (EN 12671:2009)

- zamijenjena s: HRN EN 12671:2016

### **HRN EN 12672:2008 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kalijev permanganat (EN 12672:2008)

Chemicals used for treatment of water intended for human consumption – Potassium permanganate (EN 12672:2008)

- zamijenjena s: HRN EN 12672:2016

### **HRN EN 12678:2008 en**

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kalijev peroksomonosulfat (EN 12678:2008)

Chemicals used for treatment of water intended for human consumption – Potassium peroxomonosulfate (EN 12678:2008)

- zamijenjena s: HRN EN 12678:2016

## **HN/T 554, Obrada otpadnih voda**

### **HRN EN 1253-3:2002 en**

Odvodi za građevine – 3. dio: Kontrola kakvoće (EN 1253-3:1999)

Gullies for buildings – Part 3: Quality control (EN 1253-3:1999)

- zamijenjena s: HRN EN 1253-3:2016

### **HRN EN 1253-4:2002 en**

Odvodi za građevine – 4. dio: Kontrolni otvori za prilaz sifonu (EN 1253-4:1999)

Gullies for buildings – Part 4: Access covers (EN 1253-4:1999)

- zamijenjena s: HRN EN 1253-4:2016

## **HN/T0 555, Medicinski proizvodi**

### **HRN EN ISO 15225:2010 en**

Medicinska sredstva – Upravljanje kvalitetom – Nomenklatura strukture podataka medicinskih sredstava (ISO 15225:2010; EN ISO 15225:2010)

Medical devices – Quality management – Medical device nomenclature data structure (ISO 15225:2010; EN ISO 15225:2010)

- zamijenjena s: HRN EN ISO 15225:2016

## **HN/T0 556, Osobna zaštitna oprema**

### **HRN 1131:2011 hr**

Osobna zaštitna oprema za zaštitu protiv pada s visine – Čelične penjalice za drvene stupove

Personal protective equipment against falls from a height – Steel Climbing Devices for Wooden Posts

- zamijenjena s: HRN 1131:2016

## **HN/T0 559, Zaporni, regulacijski i sigurnosni uređaji**

### **HRN EN 12334:2007 en**

Industrijski zaporni uređaji – Protupovratni zaporni uređaji od lijevanoog željeza (EN 12334:2001+AC:2002+A1:2004)

Industrial valves – Cast iron check valves (EN 12334:2001+AC:2002+A1:2004)

- zamijenjena s: HRN EN 16767:2016

### **HRN EN 12760:2002 en**

Industrijski ventili – Naglavci za zavarivanje za čelične ventile (EN 12760:1999)

Valves – Socket welding ends for steel valves (EN 12760:1999)

- zamijenjena s: HRN EN 12760:2016

### **HRN EN 14341:2008 en**

Industrijski zaporni uređaji – Čelični protupovratni zaporni uređaji (EN 14341:2006)

Industrial valves – Steel check valves (EN 14341:2006)

- zamijenjena s: HRN EN 16767:2016

## **HN/T0 560, Tekstilni proizvodi**

### **HRN EN 14065:2003 en**

Tekstil – Tekstil u postupku pranja – Sustav kontrole bioonečišćenja (EN 14065:2002)

Textiles – Laundry processed textiles – Biocontamination control system (EN 14065:2002)

- zamijenjena s: HRN EN 14065:2016

## **HN/T0 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce**

### **HRN EN 12953-3:2004 en**

Dimnjocijevni kotlovi – 3. dio: Konstrukcija i proračun dijelova pod tlakom (EN 12953-3:2002)

Shell boilers – Part 3: Design and calculation for pressure parts (EN 12953-3:2002)

- zamijenjena s: HRN EN 12953-3:2016

### **HRN EN ISO 16148:2008 en**

Plinske boce – Ponovno punjive bešavne čelične plinske boce – Ispitivanje akustičnom emisijom (AT) pri periodičnom pregledu (ISO 16148:2006; EN ISO 16148:2006)

Gas cylinders – Refillable seamless steel gas cylinders – Acoustic emission testing (AT) for periodic inspection (ISO 16148:2006; EN ISO 16148:2006)

- zamijenjena s: HRN EN ISO 16148:2016

## **HN/T 564, Uljarice, biljna i životinjska ulja i masti**

### **HRN EN ISO 662:2004 en**

Životinske i biljne masti i ulja – Određivanje količine vode i hlapljivih tvari (ISO 662:1998; EN ISO 662:2000)

Animal and vegetable fats and oils – Determination of moisture and volatile matter content (ISO 662:1998; EN ISO 662:2000)

- zamijenjena s: HRN EN ISO 662:2016

### **HRN EN ISO 9936:2007 en**

Životinske i biljne masti i ulja – Određivanje sadržaja tokoferola i tokotrienola tekućinskom kromatografijom visoke djelotvornosti (ISO 9936:2006; EN ISO 9936:2006)

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography (ISO 9936:2006; EN ISO 9936:2006)

- zamijenjena s: HRN EN ISO 9936:2016

### **HRN EN ISO 9936:2007/A1:2011 en**

Životinske i biljne masti i ulja – Određivanje sadržaja tokoferola i tokotrienola tekućinskom kromatografijom visokog učinka – Amandman 1: Obnavljanje reagensa i potvrda valjanosti statističkih podataka (ISO 9936:2006/Amd 1:2011; EN ISO 9936:2006/A1:2011)

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography – Amendment 1: Updating of reagents and confirmation of statistical data validity (ISO 9936:2006/Amd 1:2011; EN ISO 9936:2006/A1:2011)

- zamijenjena s: HRN EN ISO 9936:2016

### **HRN EN ISO 9936:2007/Ispr.1:2008 en**

Životinske i biljne masti i ulja – Određivanje količine tokoferola i tokotrienola tekućinskom kromatografijom visokog učinka (ISO 9936:2006/Cor 1:2008; EN ISO 9936:2006/AC:2008)

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography (ISO 9936:2006/Cor 1:2008; EN ISO 9936:2006/AC:2008)

- zamijenjena s: HRN EN ISO 9936:2016

### **HRN EN ISO 15753:2007 en**

Životinske i biljne masti i ulja – Određivanje policikličkih aromatskih ugljikovodika (ISO 15753:2006; EN ISO 15753:2006)

Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons (ISO 15753:2006; EN ISO 15753:2006)

- zamijenjena s: HRN EN ISO 15753:2016

### **HRN EN ISO 15753:2007/A1:2011 en**

Životinske i biljne masti i ulja – Određivanje policikličkih aromatskih ugljikovodika – Amandman 1: Isključivanje ulja komine maslina iz područja (ISO 15753:2006/Amd 1:2011; EN ISO 15753:2006/A1:2011)

Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons – Amendment 1: Exclusion of olive pomace oil from the scope (ISO 15753:2006/Amd 1:2011; EN ISO 15753:2006/A1:2011)

- zamijenjena s: HRN EN ISO 15753:2016

## **HN/T 566, Mlijeko i mliječni proizvodi**

### **HRN EN ISO 8968-4:2003 en**

Mlijeko – Određivanje sadržaja dušika – 4. dio: Određivanje sadržaja neproteinskog dušika (ISO 8968-4:2001; EN ISO 8968-4:2001)

Milk – Determination of nitrogen content – Part 4: Determination of non-protein nitrogen content (ISO 8968-4:2001; EN ISO 8968-4:2001)

- zamijenjena s: HRN EN ISO 8968-4:2016

**HRN EN ISO 8968-5:2003 en**

Mlijeko – Određivanje sadržaja dušika – 5. dio: Određivanje sadržaja proteinskog dušika

(ISO 8968-5:2001; EN ISO 8968-5:2001)

Milk – Determination of nitrogen content – Part 5: Determination of protein-nitrogen content

(ISO 8968-5:2001; EN ISO 8968-5:2001)

- zamijenjena s: HRN EN ISO 8968-4:2016

**HNZ/TO 571, Sport, igrališta i ostali rekreativni sadržaji i oprema****HRN EN 12503-2:2008 en**

Sportske strunjače – 2. dio: Strunjače za skok s motkom i skok u vis, sigurnosni zahtjevi  
(EN 12503-2:2001)

Sports mats – Part 2: Pole vault and high jump mats, safety requirements (EN 12503-2:2001)

- zamijenjena s: HRN EN 12503-2:2016

**HRN EN 12503-4:2013 en**

Sportske strunjače – 4. dio: Određivanje prigušenja udaraca (EN 12503-4:2013)

Sports mats – Part 4: Determination of shock absorption (EN 12503-4:2013)

- zamijenjena s: HRN EN 12503-4:2016

**HNZ/TO E10, Fluidi za primjenu u elektrotehnici****HRN EN 62701:2015 en**

Tekućine za primjenu u elektrotehnici – Reciklirana mineralna izolacijska ulja za transformatore i prekidače (IEC 62701:2014; EN 62701:2014)

Fluids for electrotechnical applications – Recycled mineral insulating oils for transformers and switchgears (IEC 62701:2014; EN 62701:2014)

- bez zamjene

**HNZ/TO E22, Energetska elektronika****HRS IEC/TS 62578:2013 en**

Sustavi i oprema energetske elektronike – Radni uvjeti i značajke primjena aktivnih pretvaračkih izvora energije (ili izvora energije s pretvaračima) (IEC/TS 62578:2009)

Power electronics systems and equipment – Operation conditions and characteristics of active infeed converter applications (IEC/TS 62578:2009)

- zamijenjena s: HRS IEC/TS 62578:2016

**HNZ/TO E31, Eksplozivne atmosfere****HRN EN 13463-1:2010 en**

Neelektrična oprema za potencijalno eksplozivne atmosfere – 1. dio: Osnovne metode i zahtjevi  
(EN 13463-1:2009)

Non-electrical equipment for use in potentially explosive atmospheres – Part 1: Basic method and requirements (EN 13463-1:2009)

- zamijenjena s: HRN EN ISO 80079-36:2016

**HRN EN 13463-5:2012 en**

Neelektrična oprema za eksplozivne atmosfere – 5. dio: Zaštita konstrukcijskom sigurnošću "c"  
(EN 13463-5:2011)

Non-electrical equipment intended for use in potentially explosive atmospheres – Part 5: Protection by constructional safety 'c' (EN 13463-5:2011)

- zamijenjena s: HRN EN ISO 80079-37:2016

**HRN EN 13463-6:2005 en**

Nelektrična oprema za eksplozivne atmosfere – 6. dio: Zaštita nadzorom uzročnika paljenja "b" (EN 13463-6:2005)

Non-electrical equipment for use in potentially explosive atmospheres – Part 6: Protection by control of ignition source 'b' (EN 13463-6:2005)

- zamijenjena s: HRN EN ISO 80079-37:2016

**HRN EN 13463-8:2005 en**

Nelektrična oprema za eksplozivne atmosfere – 8. dio: Zaštita uranjanjem u tekućine "k" (EN 13463-8:2003)

Non-electrical equipment for potentially explosive atmospheres – Part 8: Protection by liquid immersion 'k' (EN 13463-8:2003)

- zamijenjena s: HRN EN ISO 80079-37:2016

**HNZ/TO E42, Visokonaponska ispitivanja****HRN EN 61083-2:2002 en**

Digitalni rekorderi za mjerjenja u visokonaponskim ispitivanjima udarnim naponom – 2. dio: Procjena upotrijebljene programske podrške za određivanje parametra udarnog vala (IEC 61083-2:1996; EN 61083-2:1997)

Digital recorders for measurements in high-voltage impulse tests – Part 2: Evaluation of software used for the determination of the parameters of impulse waveforms (IEC 61083-2:1996; EN 61083-2:1997)

- zamijenjena s: HRN EN 61083-2:2013

**HNZ/TO E57, Upravljanje energetskim sustavom i pridružene komunikacije****HRN EN 61968-11:2011 en**

Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 11. dio:

Proširenja zajedničkog modela podatka (CIM) za distribuciju (IEC 61968-11:2010; EN 61968-11:2010)

Application integration at electric utilities – System interfaces for distribution management – Part 11: Common information model (CIM) extensions for distribution (IEC 61968-11:2010; EN 61968-11:2010)

- zamijenjena s: HRN EN 61968-11:2014

**HNZ/TO E78, Rad pod naponom****HRN EN 61472:2008 en**

Rad pod naponom – Minimalne udaljenosti približavanja za postrojenja izmjeničnog napona od 72,5 kV do 800 kV – Metoda proračuna (IEC 61472:2004; EN 61472:2004)

Live working – Minimum approach distances for a.c. systems in the voltage range 72,5 kV to 800 kV – A method of calculation (IEC 61472:2004; EN 61472:2004)

- zamijenjena s: HRN EN 61472:2013

**HNZ/TO E100, Audio, video i multimedijski sustavi te njihova oprema****HRN EN 60268-3:2003 en**

Oprema audiosustava – 3. dio: Pojačala (IEC 60268-3:2000; EN 60268-3:2000+Corr.1:2002)

Sound system equipment – Part 3: Amplifiers (IEC 60268-3:2000; EN 60268-3:2000+Corr.1:2002)

- zamijenjena s: HRN EN 60268-3:2014

**HNZ/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama****HRN EN 55013:2003 en**

Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke radiosmetnja – Granice i metode mjerjenja (CISPR 13:2001, preinačeno; EN 55013:2001)

Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 13:2001, modified; EN 55013:2001)

- zamijenjena s: HRN EN 55013:2013

**HRN EN 55013:2003/A1:2003 en**

Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke radiosmetnja – Granice i metode mjerena (CISPR 13:2001/am1:2003; EN 55013:2001/A1:2003)

Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 13:2001/am1:2003; EN 55013:2001/A1:2003)

- zamijenjena s: HRN EN 55013:2013

**HRN EN 55013:2003/A2:2008 en**

Zvučni i televizijski radiodifuzni prijamnici i prateća oprema – Značajke radiosmetnja – Granice i metode mjerena (CISPR 13:2001/am2:2006; EN 55013:2001/A2:2006)

Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 13:2001/am2:2006; EN 55013:2001/A2:2006)

- zamijenjena s: HRN EN 55013:2013

**HNZ/TO E501, Elektroakustika i ultrazvuk****HRN EN 61689:2008 en**

Ultrazvuk – Fizioterapijski sustavi – Specifikacija polja i metode mjerena u frekvencijskom području 0,5 MHz do 5 MHz (IEC 61689:2007; EN 61689:2007)

Ultrasonics – Physiotherapy systems – Field specifications and methods of measurement in the frequency range 0,5 MHz to 5 MHz (IEC 61689:2007; EN 61689:2007)

- zamijenjena s: HRN EN 61689:2013

**HNZ/TO E502, Elektrotehnički aspekti telekomunikacijske opreme****HRN ISO/IEC 14763-3:2011 en**

Informacijska tehnologija – Izvedba i pogon kabliranja korisničkih prostora – 3. dio: Ispitivanje svjetlovodnog kabliranja (ISO/IEC 14763-3:2011)

Information technology – Implementation and operation of customer premises cabling – Part 3: Testing of optical fibre cabling (ISO/IEC 14763-3:2011)

- bez zamjene

**HRN EN 50173-1:2009 en**

Informacijska tehnologija – Generički sustavi kabliranja – 1. dio: Opći zahtjevi (EN 50173-1:2007)

Information technology – Generic cabling systems – Part 1: General requirements (EN 50173-1:2007)

- zamijenjena s: HRN EN 50173-1:2012

**HRN EN 50173-1:2009/A1:2010 en**

Informacijska tehnologija – Generički sustavi kabliranja – 1. dio: Opći zahtjevi (EN 50173-1:2007/A1:2009)

Information technology – Generic cabling systems – Part 1: General requirements (EN 50173-1:2007/A1:2009)

- zamijenjena s: HRN EN 50173-1:2012

**HRN EN 50174-1:2008 en**

Informacijska tehnologija – Instalacija kabliranja – 1. dio: Specifikacija i osiguranje kvalitete (EN 50174-1:2000)

Information technology – Cabling installation – Part 1: Specification and quality assurance (EN 50174-1:2000)

- zamijenjena s: HRN EN 50174-1:2010

**HRN EN 50174-2:2008 en**

Informacijska tehnologija – Instalacija kabliranja – 2. dio: Planiranje instalacije i instalacijska praksa unutar zgrada (EN 50174-2:2000)

Information technology – Cabling installation – Part 2: Installation planning and practices inside buildings (EN 50174-2:2000)

- zamijenjena s: HRN EN 50174-2:2010

**HRN EN 50310:2008 en**

Primjena izjednačenja potencijala i uzemljenja u zgradama s opremom informacijske tehnologije  
(EN 50310:2006)  
Application of equipotential bonding and earthing in buildings with information technology equipment  
(EN 50310:2006)  
- zamijenjena s: HRN EN 50310:2011

**HN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1****HRN EN 13869:2013 en**

Upaljači – Zaštita za djecu za upaljače – Sigurnosni zahtjevi i metode ispitivanja  
(EN 13869:2002+A1:2011)  
Lighters – Child-resistance for lighters – Safety requirements and test methods  
(EN 13869:2002+A1:2011)  
- zamijenjena s: HRN EN 13869:2016

**HN/TU N1, Nemetalni materijali 1****HRN EN 623-3:2008 en**

Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 3. dio: Određivanje veličine  
zrna i raspodjele veličina (obilježeno metodom linearne presijecanja) (EN 623-3:2001)  
Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 3:  
Determination of grain size and size distribution (characterized by the Linear Intercept Method)  
(EN 623-3:2001)  
- zamijenjena s: HRN EN ISO 13383-1:2016

**HRN EN 623-5:2009 en**

Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 5. dio: Određivanje faznog  
volumnog udjela procjenom mikrografom (EN 623-5:2009)  
Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 5:  
Determination of phase volume fraction by evaluation of micrographs (EN 623-5:2009)  
- zamijenjena s: HRN EN ISO 13383-2:2016

**HRN EN 658-2:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 2. dio:  
Određivanje svojstava kompresije (EN 658-2:2002)  
Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature –  
Part 2: Determination of compression properties (EN 658-2:2002)  
- zamijenjena s: HRN EN ISO 20504:2016

**HRN EN 725-8:2008 en**

Tehnička keramika – Metode ispitivanja keramičkoga praha – 8. dio: Određivanje spojne volumne  
gustoće (EN 725-8:2006)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 8: Determination of tapped  
bulk density (EN 725-8:2006)  
- zamijenjena s: HRN EN ISO 23145-1:2016

**HRN EN 725-9:2008 en**

Tehnička keramika – Metode ispitivanja keramičkoga praha – 9. dio: Određivanje ne-spojne volumne  
gustoće (EN 725-9:2006)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 9: Determination of un-  
tapped bulk density (EN 725-9:2006)  
- zamijenjena s: HRN EN ISO 23145-2:2016

**HRN EN 1071-1:2008 en**

Tehnička keramika – Metode ispitivanja keramičkih premaza – 1. dio: Određivanje debljine premaza

kontaktnom sondom filometra (EN 1071-1:2003)

Advanced technical ceramics – Methods of test for ceramic coatings – Part 1: Determination of coating thickness by contact probe filometer (EN 1071-1:2003)

- zamijenjena s: HRN EN ISO 18452:2016

**HRN EN 1071-2:2008 en**

Tehnička keramika – Metode ispitivanja keramičkih premaza – 2. dio: Određivanje debljine premaza metodom bušenja kratera (EN 1071-2:2002)

Advanced technical ceramics – Methods of test for ceramic coatings – Part 2: Determination of coating thickness by the crater grinding method (EN 1071-2:2002)

- zamijenjena s: HRN EN ISO 26423:2016

**HRN EN 1071-3:2008 en**

Tehnička keramika – Metode ispitivanja keramičkih premaza – 3. dio: Određivanje prianjanja i drugih oblika mehaničkih nedostataka testom grebanja (EN 1071-3:2005)

Advanced technical ceramics – Methods of test for ceramic coatings – Part 3: Determination of adhesion and other mechanical failure modes by a scratch test (EN 1071-3:2005)

- zamijenjena s: HRN EN ISO 20502:2016

**HRN EN 1071-6:2008 en**

Tehnička keramika – Metode ispitivanja keramičkih premaza – 6. dio: Određivanje otpornosti na habanje premaza testom trošenja mikroabrazijom (EN 1071-6:2007)

Advanced technical ceramics – Methods of test for ceramic coatings – Part 6: Determination of the abrasion resistance of coatings by a micro-abrasion wear test (EN 1071-6:2007)

- zamijenjena s: HRN EN ISO 26424:2016

**HRN EN 1071-9:2009 en**

Tehnička keramika – Metode ispitivanja keramičkih premaza – 9. dio: Određivanje loma pri naprezanju (EN 1071-9:2009)

Advanced technical ceramics – Methods of test for ceramic coatings – Part 9: Determination of fracture strain (EN 1071-9:2009)

- zamijenjena s: HRN EN ISO 14604:2016

**HRN EN 1892:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na visokim temperaturama u inertnoj atmosferi – Određivanje zateznih svojstava (EN 1892:2005)

Advanced technical ceramics – Mechanical properties of ceramic composites at high temperature under inert atmosphere – Determination of tensile properties (EN 1892:2005)

- zamijenjena s: HRN EN ISO 14574:2016

**HRN EN 1893:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na visokim temperaturama u zraku pod atmosferskim tlakom – Određivanje zateznih svojstava (EN 1893:2005)

Advanced technical ceramics – Mechanical properties of ceramic composites at high temperature in air at atmospheric pressure – Determination of tensile properties (EN 1893:2005)

- zamijenjena s: HRN EN ISO 14574:2016

**HRN EN 12290:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na visokim temperaturama u inertnoj atmosferi – Određivanje svojstava sabijanja (EN 12290:2005)

Advanced technical ceramics – Mechanical properties of ceramic composites at high temperature under inert atmosphere – Determination of compression properties (EN 12290:2005)

- zamijenjena s: HRN EN ISO 14544:2016

**HRN EN 12291:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na visokim temperaturama u zraku pod atmosferskim tlakom – Određivanje svojstava sabijanja (EN 12291:2003)  
Advanced technical ceramics – Mechanical properties of ceramic composites at high temperature in air at atmospheric pressure – Determination of compression properties (EN 12291:2003)  
- zamijenjena s: HRN EN ISO 14544:2016

**HRN EN 15156:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – Određivanje svojstava zamora pri konstantnom opsegu (EN 15156:2006)  
Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Determination of fatigue properties at constant amplitude (EN 15156:2006)  
- zamijenjena s: HRN EN ISO 17140:2016

**HRN EN 15157:2008 en**

Tehnička keramika – Mehanička svojstva keramičkih smjesa na visokim temperaturama u zraku pod atmosferskim tlakom – Određivanje svojstava zamora pri konstantnom opsegu (EN 15157:2006)  
Advanced technical ceramics – Mechanical properties of ceramic composites at high temperature in air at atmospheric pressure – Determination of fatigue properties at constant amplitude (EN 15157:2006)  
- zamijenjena s: HRN EN ISO 17142:2016

**HRS CEN/TS 15867:2009 en**

Tehnička keramika – Keramičke smjese – Uputa za određivanje stupnja odstupanja u jednoosnome mehaničkom testu (CEN/TS 15867:2009)  
Advanced technical ceramics – Ceramic composites – Guide to the determination of the degree of misalignment in uniaxial mechanical tests (CEN/TS 15867:2009)  
- zamijenjena s: HRN EN ISO 17161:2016

**HNZ/TU S1, Zdravlje, okoliš i medicinska oprema 1****HRN EN ISO 2157:2008 en**

Stomatološki rotirajući instrumenti – Nazivni promjeri i označavanje brojevima (ISO 2157:1992; EN ISO 2157:1995)  
Dental rotary instruments – Nominal diameters and designation code number (ISO 2157:1992; EN ISO 2157:1995)  
- zamijenjena s: HRN EN ISO 2157:2016

**HRN EN ISO 3950:2011 en**

Stomatologija – Sustav označivanja zuba i područja usne šupljine (ISO 3950:2009; EN ISO 3950:2009)  
Dentistry – Designation system for teeth and areas of the oral cavity (ISO 3950:2009; EN ISO 3950:2009)  
- zamijenjena s: HRN EN ISO 3950:2016

**HRN EN ISO 8537:2008 en**

Sterilne jednokratne šprice, s iglom ili bez igle, za inzulin (ISO 8537:2007; EN ISO 8537:2008)  
Sterile single-use syringes, with or without needle, for insulin (ISO 8537:2007; EN ISO 8537:2008)  
- zamijenjena s: HRN EN ISO 8537:2016

**HRN EN 27787-1:2008 en**

Stomatologija – Stomatološki rotirajući instrumenti – Diskovi za sječenje – 1. dio: Čelični laboratorijski diskovi za sječenje (ISO 7787-1:1984; EN 27787-1:1990+AC1:1990)  
Dentistry – Dental rotary instruments – Cutters – Part 1: Steel laboratory cutters (ISO 7787-1:1984; EN 27787-1:1990+AC1:1990)  
- zamijenjena s: HRN EN ISO 7787-1:2016

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

### **HRN EN 3909:2008 en**

Nizovi o zrakoplovstvu – Ispitni fluidi i metode ispitivanja za električne dijelove i podsklopove (EN 3909:2007)

Aerospace series – Test fluids and test methods for electric components and sub-assemblies (EN 3909:2007)

- zamijenjena s: HRN EN 3909:2016

### **HRN EN 4165-001:2015/Ispr.1:2016 en**

Zrakoplovstvo – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – Dio 001: Tehnička specifikacija (EN 4165-001:2015/AC:2016)

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 001: Technical specification (EN 4165-001:2015/AC:2016)

- zamijenjena s: HRN EN 4165-001:2015/Ispr.2:2016

### **HRN EN 4644-003:2012 en**

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 003. dio: Kvadratni umeci – Norma za proizvod (EN 4644-003:2011)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 003: Rectangular inserts – Product standard (EN 4644-003:2011)

- zamijenjena s: HRN EN 4644-003:2016

### **HRN EN 4644-133:2012 en**

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 133. dio: Veličina 3 utikača za primjenu za stalak i ploču – Norma za proizvod (EN 4644-133:2011)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 133: Size 3 receptacle for rack and panel application – Product standard (EN 4644-133:2011)

- zamijenjena s: HRN EN 4644-133:2016

### **HRN EN 4644-141:2012 en**

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 141. dio: Veličina 4 utikača za primjenu za stalak i ploču – Norma za proizvod (EN 4644-141:2011)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 141: Size 4 plug for rack and panel applications – Product standard (EN 4644-141:2011)

- zamijenjena s: HRN EN 4644-141:2016

### **HRN EN 4697:2012 en**

Nizovi o zrakoplovstvu – Opći zahtjevi i zahtjevi za ugradnju opreme putničkih sjedala (EN 4697:2012)

Aerospace series – General and installation requirements for passenger seat fittings (EN 4697:2012)

- zamijenjena s: HRN EN 4697:2016

### **HRN EN 4700-002:2011 en**

Nizovi o zrakoplovstvu – Čelik i legure otporne na toplinu – Gnježdeni proizvodi – Tehnička specifikacija – 002. dio: Šipke i profili (EN 4700-002:2010)

Aerospace series – Steel and heat resisting alloys – Wrought products – Technical specification – Part 002: Bar and section (EN 4700-002:2010)

- zamijenjena s: HRN EN 4700-002:2016

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

### **HRN EN 60068-2-57:2008 en**

Ispitivanje utjecaja okoliša – Dio 2-57: Ispitivanja – Ff ispitivanje: Vibracije – Metoda vrijeme-povijest (IEC 60068-2-57:1999; EN 60068-2-57:2000)  
Environmental testing – Part 2-57: Tests – Test Ff: Vibration – Time-history method  
(IEC 60068-2-57:1999; EN 60068-2-57:2000)  
- zamijenjena s: HRN EN 60068-2-57:2013

### **HRN EN 60068-2-59:2008 en**

Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Fe ispitivanje: Metoda sinusni udarac (IEC 60068-2-59:1990; EN 60068-2-59:1993)  
Environmental testing – Part 2: Test methods – Test Fe: Vibration – Sine beat method  
(IEC 60068-2-59:1990; EN 60068-2-59:1993)  
- zamijenjena s: HRN EN 60068-2-57:2013

### **HRN EN 60695-2-10:2008 en**

Ispitivanje na opasnost od požara – Dio 2-10: Ispitne metode na bazi užarene/vruće žice – Uređaj s užarenom žicom i slični postupci ispitivanja (IEC 60695-2-10:2000; EN 60695-2-10:2001)  
Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure (IEC 60695-2-10:2000; EN 60695-2-10:2001)  
- zamijenjena s: HRN EN 60695-2-10:2013

### **HRN EN 60848:2008 en**

GRAFCET specificirani jezik za sekvencijske funkcije grafikona (IEC 60848:2002; EN 60848:2002)  
GRAFCET specification language for sequential function charts (IEC 60848:2002; EN 60848:2002)  
- zamijenjena s: HRN EN 60848:2013

### **HRN EN 61788-4:2008 en**

Supravodljivost – 4. dio: Preostalo mjerjenje omjera otpora – Preostali omjer otpora Nb-Ti kompozitnih supravodiča (IEC 61788-4:2007; EN 61788-4:2007)  
Superconductivity – Part 4: Residual resistance ratio measurement – Residual resistance ratio of Nb-Ti composite superconductors (IEC 61788-4:2007; EN 61788-4:2007)  
- zamijenjena s: HRN EN 61788-4:2013

### **HRN EN 62079:2008 en**

Priprema instrukcija – Strukturiranje, sadržaj i prezentacija (IEC 62079:2001; EN 62079:2001)  
Preparation of instructions – Structuring, content and presentation (IEC 62079:2001; EN 62079:2001)  
- zamijenjena s: RN EN 82079-1:2013

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

### **HRN EN 61747-2-1:2008 en**

Liquid crystal and solid-state display devices – Part 2-1: Passive matrix monochrome LCD modules – Blank detail specification (IEC 61747-2-1:1998; EN 61747-2-1:2001)  
- zamijenjena s: HRN EN 61747-2-1:2014

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

### **HRN EN 61427:2008 en**

Sekundarni članci i baterije za fotonaponske energetske sustave (PVES) – Opći zahtjevi i metode ispitivanja (IEC 61427:2005; EN 61427:2005)  
Secondary cells and batteries for photovoltaic energy systems (PVES) – General requirements and methods of test (IEC 61427:2005; EN 61427:2005)  
- zamijenjena s: HRN EN 61427-1:2014

## 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 534, Spremnici za teret**

- umjesto

#### **HRN EN 976-1:2008**

Podzemni **spremnici iz plastike ojačane staklenim vlaknima** (GRP) – Horizontalni cilindrični atmosferski spremnici za skladištenje tekućih goriva na bazi nafte – 1. dio: Zahtjevi i metode ispitivanja jednostijenih spremnika (EN 976-1:1997)

Underground tanks of glass-reinforced plastics (GRP) – Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels – Part 1: Requirements and test methods for single wall tanks (EN 976-1:1997)

- treba biti

#### **HRN EN 976-1:2008**

Podzemni **spremnici od plastike ojačane stakлом** (GRP) – Horizontalni cilindrični atmosferski spremnici za skladištenje tekućih goriva na bazi nafte – 1. dio: Zahtjevi i metode ispitivanja jednostijenih spremnika (EN 976-1:1997)

Underground tanks of glass-reinforced plastics (GRP) – Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels – Part 1: Requirements and test methods for single wall tanks (EN 976-1:1997)

- umjesto

#### **HRN EN 976-2:2008**

Podzemni **spremnici iz plastike ojačane staklenim vlaknima** (GRP) – Horizontalni cilindrični atmosferski spremnici za skladištenje tekućih goriva na bazi nafte – 2. dio: Prijevoz, rukovanje, skladištenje i postavljanje jednostijenih spremnika (EN 976-2:1997)

Underground tanks of glass-reinforced plastics (GRP) – Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels – Part 2: Transport, handling, storage and installation of single wall tanks (EN 976-2:1997)

- treba biti

#### **HRN EN 976-2:2008**

Podzemni **spremnici od plastike ojačane stakлом** (GRP) – Horizontalni cilindrični atmosferski spremnici za skladištenje tekućih goriva na bazi nafte – 2. dio: Prijevoz, rukovanje, skladištenje i postavljanje jednostijenih spremnika (EN 976-2:1997)

Underground tanks of glass-reinforced plastics (GRP) – Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels – Part 2: Transport, handling, storage and installation of single wall tanks (EN 976-2:1997)

- umjesto

#### **HRN EN 977:2008**

Podzemni **spremnici iz plastike ojačane staklenim vlaknima** (GRP) – Metoda jednostrane izloženosti tekućinama (EN 977:1997)

Underground tanks of glass-reinforced plastics (GRP) – Method for one side exposure to fluids (EN 977:1997)

- treba biti

#### **HRN EN 977:2008**

Podzemni **spremnici od plastike ojačane stakлом** (GRP) – Metoda jednostrane izloženosti tekućinama (EN 977:1997)

Underground tanks of glass-reinforced plastics (GRP) – Method for one side exposure to fluids (EN 977:1997)

- **umjesto**

**HRN EN 978:2008**

Podzemni **spremnici iz plastike ojačana staklenim vlaknima** (GRP) – Određivanje alfa faktora i beta faktora (EN 978:1997)

Underground tanks of glass-reinforced plastics (GRP) – Determination of factor alpha and factor beta (EN 978:1997)

- **treba biti**

**HRN EN 978:2008**

Podzemni **spremnici od plastike ojačane staklom** (GRP) – Određivanje alfa faktora i beta faktora (EN 978:1997)

Underground tanks of glass-reinforced plastics (GRP) – Determination of factor alpha and factor beta (EN 978:1997)

- **umjesto**

**HRN EN 13121-1:2008**

**Spremnici iz plastike ojačane staklenim vlaknima (GRP) i posude za nadzemnu upotrebu – 1. dio:**

Sirovi materijali – Specifikacija uvjeta i uvjeti prihvatanja (EN 13121-1:2003)

GRP tanks and vessels for use above ground – Part 1: Raw materials – Specification conditions and acceptance conditions (EN 13121-1:2003)

- **treba biti**

**HRN EN 13121-1:2008**

**Spremnici i posude od plastike ojačane staklom** (GRP) za nadzemnu upotrebu – 1. dio: Sirovi materijali – Specifikacija uvjeta i uvjeti prihvatanja (EN 13121-1:2003)

GRP tanks and vessels for use above ground – Part 1: Raw materials – Specification conditions and acceptance conditions (EN 13121-1:2003)

- **umjesto**

**HRN EN 13121-2:2008**

**Spremnici iz plastike ojačane staklenim vlaknima (GRP) i posude za nadzemnu upotrebu – 2. dio:**

Kompozitni materijali – Kemijska otpornost (EN 13121-2:2003)

GRP tanks and vessels for use above ground – Part 2: Composite materials – Chemical resistance (EN 13121-2:2003)

- **treba biti**

**HRN EN 13121-2:2008**

**Spremnici i posude od plastike ojačane staklom** (GRP) za nadzemnu upotrebu – 2. dio:

Kompozitni materijali – Kemijska otpornost (EN 13121-2:2003)

GRP tanks and vessels for use above ground – Part 2: Composite materials – Chemical resistance (EN 13121-2:2003)

- **umjesto**

**HRN EN 13121-4:2008**

**Spremnici iz plastike ojačane staklenim vlaknima (GRP) i posude za nadzemnu upotrebu – 4. dio:**

Isporuka, ugradnja i održavanje (EN 13121-4:2005+AC:2007)

GRP tanks and vessels for use above ground – Part 4: Delivery, installation and maintenance (EN 13121-4:2005+AC:2007)

- **treba biti**

**HRN EN 13121-4:2008**

**Spremnici i posude od plastike ojačane staklom** (GRP) za nadzemnu upotrebu – 4. dio: Isporuka, ugradnja i održavanje (EN 13121-4:2005+AC:2007)

GRP tanks and vessels for use above ground – Part 4: Delivery, installation and maintenance (EN 13121-4:2005+AC:2007)

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

- umjesto

### **HRN EN 50526-3:2016**

Željeznički sustav – Stabilna postrojenja – Istosmjerni odvodnici prenapona i uređaji za ograničavanje napona – 3. dio: **Vodič** za primjenu (EN 50526-3:2016)  
Railway applications – Fixed installations – D.C. surge arresters and voltage limiting devices – Part 3: Application guide (EN 50526-3:2016)

- treba biti

### **HRN EN 50526-3:2016**

Željeznički sustav – Stabilna postrojenja – Istosmjerni odvodnici prenapona i uređaji za ograničavanje napona – 3. dio: **Upute** za primjenu (EN 50526-3:2016)  
Railway applications – Fixed installations – D.C. surge arresters and voltage limiting devices – Part 3: Application guide (EN 50526-3:2016)

- umjesto

### **HRN EN 61375-3-4:2014**

Elektronička oprema za željeznice -- **Informacijska sabirnica vlaka** -- Mreža zasnovana na Ethernetu (IEC 61375-3-4:2014; EN 61375-3-4:2014)  
Electronic railway equipment -- Train communication network (TCN) -- Part 3-4: Ethernet Consist Network (ECN) (IEC 61375-3-4:2014; EN 61375-3-4:2014)

- treba biti

### **HRN EN 61375-3-4:2014**

Elektronička oprema za željeznice -- **Komunikacijska mreža vlaka (TCN)** -- Dio 3-4: Mreža zasnovana na Ethernetu (IEC 61375-3-4:2014; EN 61375-3-4:2014)  
Electronic railway equipment -- Train communication network (TCN) -- Part 3-4: Ethernet Consist Network (ECN) (IEC 61375-3-4:2014; EN 61375-3-4:2014)

## **HZN/TO E59, Uporabne značajke električnih kućanskih aparata**

- umjesto

### **HRN EN 50229:2015**

Električne perilice-sušilice rublja za kućansku uporabu – **Ispitne metode za mjerjenje** radnih značajka (EN 50229:2015)  
Electric clothes washer-dryers for household use – Methods of measuring the performance (EN 50229:2015)

- treba biti

### **HRN EN 50229:2015**

Električne perilice-sušilice rublja za kućansku uporabu – **Metode mjerjenja** radnih značajka (EN 50229:2015)  
Electric clothes washer-dryers for household use – Methods of measuring the performance (EN 50229:2015)

- **umjesto**

**HRN EN 50229:2015/Ispri.1:2016**

Električne perilice-sušilice rublja za kućansku uporabu – **Ispitne metode za mjerenje** radnih značajka (EN 50229:2015/AC:2016)

Electric clothes washer-dryers for household use – Methods of measuring the performance (EN 50229:2015/AC:2016)

- **treba biti**

**HRN EN 50229:2015/Ispri.1:2016**

Električne perilice-sušilice rublja za kućansku uporabu – **Metode mjerenja** radnih značajka (EN 50229:2015/AC:2016)

Electric clothes washer-dryers for household use – Methods of measuring the performance (EN 50229:2015/AC:2016)

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

- **umjesto**

**HRN EN 4644-131:2016**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 131. dio: Utikač veličine 3 za priključne ploče utaknute u okvir – Norma za proizvod (EN 4644-131:2015)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 131: Size 3 plug for rack and panel applications, class C and D – Product standard (EN 4644-131:2015)

- **treba biti**

**HRN EN 4644-131:2016**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 131. dio: Utikač veličine 3 za priključne ploče utaknute u okvir, **razreda C i D** – Norma za proizvod (EN 4644-131:2015)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 131: Size 3 plug for rack and panel applications, class C and D – Product standard (EN 4644-131:2015)

- **umjesto**

**HRN EN 6049-006:2012**

Nizovi o zrakoplovstvu – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – 006. dio: Samoizolacijska zaštitna navlaka, **fleksibilna** za naknadnu ugradnju – Norma za proizvod (EN 6049-006:2012)

Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 006: Self-wrapping protective sleeve, flexible post installation – Product standard (EN 6049-006:2012)

- **treba biti**

**HRN EN 6049-006:2012**

Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – **Dio 006: Samoomatajuća** zaštitna navlaka, **prilagodljiva**, za naknadnu ugradnju – Norma za proizvod (EN 6049-006:2012)

Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 006: Self-wrapping protective sleeve, flexible post installation – Product standard (EN 6049-006:2012)

- umjesto

**HRN EN 6049-007:2012**

**Nizovi o zrakoplovstvu** – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – 007. dio: Samoizolacijska zaštitna navlaka, fleksibilna za naknadnu ugradnju radne temperature od – 55 °C do 260 °C – Norma za proizvod (EN 6049-007:2012)

Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 007: Self-wrapping protective sleeve, flexible post installation operating temperature from – 55 °C to 260 °C – Product standard (EN 6049-007:2012)

- treba biti

**HRN EN 6049-007:2012**

**Zrakoplovstvo** – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – **Dio 007: Samoomatajuća navlaka za mehaničku i električnu zaštitu, prilagodljiva**, za naknadnu ugradnju radne temperature od -55 °C do 260 °C – Norma za proizvod (EN 6049-007:2012)

Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 007: Self-wrapping **mechanical and electrical** protective sleeve, flexible post installation operating temperature from -55 °C to 260 °C – Product standard (EN 6049-007:2012)

- umjesto

**HRN EN 6049-008:2013**

**Zrakoplovni nizovi** – Električni kabeli, instalacije – **Košuljice zaštićene meta-aramid vlknima – 008. dio: Samoomotavajući oklop (EMI) zaštitne košuljice** s nikal-bakrenim opletom, **promjenjiva radna temperatura nakon instalacije** od – 55 °C do 200 °C – Norma za proizvod (EN 6049-008:2013)

Aerospace series – Electrical cables, installation – Protective sleeves in meta-aramid fibres – Part 008: Self-wrapping shielded (EMI) protective sleeve with nickel copper braid, flexible post installation operating temperature from – 55 °C to 200 °C – Product standard (EN 6049-008:2013)

- treba biti

**HRN EN 6049-008:2013**

**Zrakoplovstvo** – Električni kabeli, **ugradnja – Zaštitne navlake od meta-aramidnih vlakana – Dio 008: Samoomatajuća oklopljena (EMI) zaštitna navlaka** s nikal-bakrenim opletom, **prilagodljiva, za naknadnu ugradnju, radne temperature** od -55 °C do 200 °C – Norma za proizvod (EN 6049-008:2013)

Aerospace series – Electrical cables, installation – Protective sleeves in meta-aramid fibres – Part 008: Self-wrapping shielded (EMI) protective sleeve with nickel copper braid, flexible post installation operating temperature from -55 °C to 200 °C – Product standard (EN 6049-008:2013)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

Te su hrvatske norme ranije objavljene samo s naslovima na engleskome jeziku pa se sada objavljaju 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 8, Brodogradnja**

**HRN EN 1864:2008**

Plovni objekti unutarnje plovidbe – Kormilarnica – Ergonomski i sigurnosni zahtjevi (EN 1864:2008)  
Inland navigation vessels – Wheelhouse – Ergonomic and safety requirements (EN 1864:2008)

**HRN EN ISO 6042:2008**

Brodovi i pomorska tehnologija – Nepropusna jednokrilna čelična vrata (ISO 6042:1998;  
EN ISO 6042:2000)  
Ships and marine technology – Weathertight single-leaf steel doors (ISO 6042:1998;  
EN ISO 6042:2000)

**HRN EN ISO 6115:2008**

Brodogradnja – Kočarska vitla (ISO 6115:1988; EN ISO 6115:1996)  
Shipbuilding – Trawl winches (ISO 6115:1988; EN ISO 6115:1996)

**HRN EN 14744:2008**

Plovni objekti unutarnje plovidbe i pomorski plovni objekti – Navigacijska svjetla  
(EN 14744:2005+AC:2006)  
Inland navigation vessels and sea-going vessels – Navigation light (EN 14744:2005+AC:2006)

**HRN EN 14874:2008**

Plovni objekti unutarnje plovidbe – Sidreni lanac bez prečke – Lančano kolo (EN 14874:2005)  
Inland navigation vessels – Studless anchor chain – Cable lifter (EN 14874:2005)

**HRN EN 14714:2008**

Plovni objekti unutarnje plovidbe – Priključna sapnica za opremu i uređaje na spremnicima za teret –  
Dimenzije (EN 14714:2005)  
Inland navigation vessels – Connection nozzle for equipment and devices at cargo tanks –  
Dimensions (EN 14714:2005)

**HRN EN 14965:2008**

Plovni objekti unutarnje plovidbe – Ravne bitve (EN 14965:2005)  
Inland navigation vessels – Flat bollards (EN 14965:2005)

**HRN EN 15271:2008**

Plovni objekti unutarnje plovidbe – Sidreni lanac bez prečke – Oprema za sidrenje (EN 15271:2007)  
Inland navigation vessels – Studless anchor chain – Anchor equipment (EN 15271:2007)

**HRN EN 15272-1:2008**

Plovni objekti unutarnje plovidbe – Oprema za vođenje užeta – 1. dio: Opći zahtjevi  
(EN 15272-1:2007)  
Inland navigation vessels – Equipment for rope leading – Part 1: General requirements  
(EN 15272-1:2007)

**HRN EN 15272-2:2008**

Plovni objekti unutarnje plovidbe – Oprema za vođenje užeta – 2. dio: Zjevača (EN 15272-2:2007)  
Inland navigation vessels – Equipment for rope leading – Part 2: Fairlead (EN 15272-2:2007)

**HRN EN 15272-3:2008**

Plovni objekti unutarnje plovidbe – Oprema za vođenje užeta – 3. dio: Zjevače s valjcima  
(EN 15272-3:2007)  
Inland navigation vessels – Equipment for rope leading – Part 3: Roller fairleads (EN 15272-3:2007)

**HRN EN 15272-4:2008**

Plovni objekti unutarnje plovidbe – Oprema za vođenje užeta – 4. dio: Vodilica užeta  
(EN 15272-4:2007)  
Inland navigation vessels – Equipment for rope leading – Part 4: Rope lead (EN 15272-4:2007)

**HRN EN ISO 15749-1:2008**

Brodovi i pomorska tehnologija – Sustav odvodnje na brodovima i pomorskim konstrukcijama – 1. dio:  
Projektiranje sustava za odvodnju sanitarne vode (ISO 15749-1:2004; EN ISO 15749-1:2004)  
Ships and marine technology – Drainage systems on ships and marine structures – Part 1: Sanitary  
drainage-system design (ISO 15749-1:2004; EN ISO 15749-1:2004)

**HRN EN ISO 15749-2:2008**

Brodovi i pomorska tehnologija – Sustav odvodnje na brodovima i pomorskim konstrukcijama – 2. dio:  
Odvodnja sanitarne vode, cjevovod gravitacijskog sustava (ISO 15749-2:2004; EN ISO 15749-2:2004)  
Ships and marine technology – Drainage systems on ships and marine structures – Part 2: Sanitary  
drainage, drain piping for gravity system (ISO 15749-2:2004; EN ISO 15749-2:2004)

**HRN EN ISO 15749-3:2008**

Brodovi i pomorska tehnologija – Sustav odvodnje na brodovima i pomorskim konstrukcijama – 3. dio: Odvodnja sanitarno vode, cjevovod vakuumskog sustava (ISO 15749-3:2004; EN ISO 15749-3:2004)  
Ships and marine technology – Drainage systems on ships and marine structures – Part 3: Sanitary drainage, drain piping for vacuum system (ISO 15749-3:2004; EN ISO 15749-3:2004)

**HRN EN ISO 15749-4:2008**

Brodovi i pomorska tehnologija – Sustav odvodnje na brodovima i pomorskim konstrukcijama – 4. dio: Odvodnja sanitarno vode, cjevovodi za odvodnju fekalija (ISO 15749-4:2004; EN ISO 15749-4:2004)  
Ships and marine technology – Drainage systems on ships and marine structures – Part 4: Sanitary drainage, sewage disposal pipes (ISO 15749-4:2004; EN ISO 15749-4:2004)

**HRN EN ISO 15749-5:2008**

Brodovi i pomorska tehnologija – Sustav odvodnje na brodovima i pomorskim konstrukcijama – 5. dio: Odvodnja s palube, teretnih prostora i bazena (ISO 15749-5:2004; EN ISO 15749-5:2004)  
Ships and marine technology – Drainage systems on ships and marine structures – Part 5: Drainage of decks, cargo spaces and swimming pools (ISO 15749-5:2004; EN ISO 15749-5:2004)

**HRN EN ISO 19019:2008**

Pomorski plovni objekti i pomorska tehnologija – Upute za planiranje i provođenje pokusnih plovidbi i izveštavanje (ISO 19019:2005; EN ISO 19019:2005)  
Sea-going vessels and marine technology – Instructions for planning, carrying out and reporting sea trials (ISO 19019:2005; EN ISO 19019:2005)

**HRN EN 14606:2008**

Plovni objekti unutarnje plovidbe – Sidreni lanac bez prečke – Pribor (EN 14606:2004)  
Inland navigation vessels – Studless anchor chain – Accessories (EN 14606:2004)

**HZN/TO T4, Normizacija u telekomunikacijama****HRN ETS 300 132-2 V1:2010**

Tehnologija za zaštitu okoliša (EE) – Sučelje napajanja na ulazu informacijsko-komunikacijske (ICT) opreme – 2. dio: Rad s istosmjernom strujom (dc) napona -48 V (ETS 300 132-2 ed.1:1996)  
Equipment Engineering (EE) – Power supply interface at the input to telecommunications equipment – Part 2: Operated by direct current (dc) (ETS 300 132-2 ed.1:1996)

**HRN EN 300 132-2 V2.1.2:2009**

Tehnologija za zaštitu okoliša (EE) – Sučelje napajanja na ulazu informacijsko-komunikacijske (ICT) opreme – 2. dio: Rad s istosmjernom strujom (dc) napona -48 V (EN 300 132-2 V2.1.2:2003)  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications equipment – Part 2: Operated by direct current (dc) (EN 300 132-2 V2.1.2:2003)

**HRN EN 300 132-2 V2.2.1:2009**

Tehnologija za zaštitu okoliša (EE) – Sučelje napajanja na ulazu informacijsko-komunikacijske (ICT) opreme – 2. dio: Rad s istosmjernom strujom (dc) napona -48 V (EN 300 132-2 V2.2.1:2007)  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications equipment – Part 2: Operated by direct current (dc) (EN 300 132-2 V2.2.1:2007)

**HRN EN 300 132-2 V2.2.2:2009**

Tehnologija za zaštitu okoliša (EE) – Sučelje napajanja na ulazu informacijsko-komunikacijske (ICT) opreme – 2. dio: Rad s istosmjernom strujom (dc) napona -48 V (EN 300 132-2 V2.2.2:2007)  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications equipment – Part 2: Operated by direct current (dc) (EN 300 132-2 V2.2.2:2007)

**HRN EN 302 217-1 V1.1.3:2009**

Nepokretni radijski sustavi – Karakteristike i zahtjevi za opremu točka-točka i antene – 1. dio: Opći prikaz i zajedničke karakteristike neovisne o sustavu (EN 302 217-1 V1.1.3:2004)  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics (EN 302 217-1 V1.1.3:2004)

**HRN EN 302 217-1 V1.1.4:2009**

Nepokretni radijski sustavi – Karakteristike i zahtjevi za opremu točka-točka i antene – 1. dio: Opći prikaz i zajedničke karakteristike neovisne o sustavu (EN 302 217-1 V1.1.4:2005)  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics (EN 302 217-1 V1.1.4:2005)

**HRN EN 302 217-1 V1.2.1:2009**

Nepokretni radijski sustavi – Karakteristike i zahtjevi za opremu točka-točka i antene – 1. dio: Opći prikaz i zajedničke karakteristike neovisne o sustavu (EN 302 217-1 V1.2.1:2007)  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics (EN 302 217-1 V1.2.1:2007)

**HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1****HRN EN 4644-012:2015**

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 012: Utičnica veličine 1, razreda A, C i E – Norma za proizvod (EN 4644-012:2015)  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 012: Receptacle, size 1, class A, C and E – Product standard (EN 4644-012:2015)

**HRN EN 4674-001:2015**

Zrakoplovstvo – Električni kabeli, ugradnja – Samoomatajuća, oklopljena (EMI) zaštitna navlaka – Dio 001: Tehnička specifikacija (EN 4674-001:2015)  
Aerospace series – Electrical cables, installation – Self-wrapping shielding (EMI) protective sleeve – Part 001: Technical specification (EN 4674-001:2015)

**HRN EN 4674-002:2015**

Zrakoplovstvo – Električni kabeli, ugradnja – Samoomatajuća, oklopljena (EMI) zaštitna navlaka – Dio 002: Općenito i popis norma za proizvod (EN 4674-002:2015)  
Aerospace series – Electrical cables, installation – Self-wrapping shielding (EMI) protective sleeve – Part 002: General and list of product standard (EN 4674-002:2015)

**HRN EN 4674-003:2015**

Zrakoplovstvo – Električni kabeli, ugradnja – Samoomatajuća, oklopljena (EMI) zaštitna navlaka – Dio 003: Otvorena navlaka – Unutarnje područje pod kontroliranim tlakom – EMI zaštita 5 kA – Temperaturni raspon od -65 °C do 200 °C – Norma za proizvod (EN 4674-003:2015)  
Aerospace series – Electrical cables, installation – Self-wrapping shielding (EMI) protective sleeve – Part 003: Open sleeve – Inside pressurized area – EMI protection 5 kA – Temperature range -65 °C to 200 °C – Product standard (EN 4674-003:2015)

**HRN EN 4674-004:2015**

Zrakoplovstvo – Električni kabeli, ugradnja – Samoomatajuća, oklopljena (EMI) zaštitna navlaka – Dio 003: Otvorena navlaka – Vanjsko područje pod kontroliranim tlakom – EMI zaštita 10 kA – Temperaturni raspon od -65 °C do 200 °C – Norma za proizvod (EN 4674-004:2015)  
Aerospace series – Electrical cables, installation – Self-wrapping shielding (EMI) protective sleeve – Part 004: Open sleeve – Outside pressurized area – EMI protection 10 kA – Temperature range -65 °C to 200 °C – Product standard (EN 4674-004:2015)

**1.10 Prijevodi hrvatskih normativnih dokumenata****HZN/TO TO 37, Terminologija**

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

**HRN ISO 860:2010 hr-en pr-pp**

Terminološki rad – Usklađivanje pojmove i naziva (ISO 860:2007)  
Terminology work – Harmonization of concepts and terms (ISO 860:2007)

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

### **01.020 Nazivlje (načela i usklađivanje)**

#### **Međunarodna normizacija ISO**

ISO 24617-6:2016-02

Language resource management – Semantic annotation framework – Part 6: Principles of semantic annotation (SemAF Principles)

ISO 18158:2016-03

Workplace air – Terminology

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

#### **Europska normizacija CEN**

EN ISO 15225:2016-04

Medical devices – Quality management – Medical device nomenclature data structure (ISO 15225:2016)

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

#### **Međunarodna normizacija IEC**

IEC 60050-904 AMD 2:2016-03

International Electrotechnical Vocabulary – Part 904: Environmental standardization for electrical and electronic products and systems; Amendment 1

### **01.040.17 Mjeriteljstvo i mjerjenje. Fizikalne pojave (Rječnici)**

#### **Međunarodna normizacija IEC**

IEC 60051-1:2016-02

Direct acting indicating analogue electrical measuring instruments and their accessories – Part 1: Definitions and general requirements common to all parts

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

#### **Europska normizacija CEN**

EN ISO 12707:2016-04

Non-destructive testing – Magnetic particle testing – Vocabulary (ISO 12707:2016)

**Međunarodna normizacija**  
**ISO**

ISO 12707:2016-03  
Non-destructive testing – Magnetic particle testing – Vocabulary

**01.040.25 Proizvodna tehnika (Rječnici)**

**Međunarodna normizacija**  
**ISO**

ISO/TR 25901-1:2016-03  
Welding and allied processes – Vocabulary – Part 1: General terms

ISO/TR 25901-3:2016-03  
Welding and allied processes – Vocabulary – Part 3: Welding processes

ISO/TR 25901-4:2016-0343,20 EUR  
Welding and allied processes – Vocabulary – Part 4: Arc welding

**IEC**

IEC 61511-1:2016-02  
Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements

IEC 62439-2:2016-03  
Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP)

IEC 62439-3:2016-03  
Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)

IEC 62439-5:2016-03  
Industrial communication networks – High availability automation networks – Part 5: Beacon Redundancy Protocol (BRP)

**01.040.27 Prijenos energije i topline (Rječnici)**

**Europska normizacija**  
**CEN**

EN ISO/IEC 13273-2:2016-02  
Energy efficiency and renewable energy sources – Common international terminology – Part 2: Renewable energy sources (ISO/IEC 13273-2:2015)

**Međunarodna normizacija**  
**IEC**

IEC 60050-395 AMD 1:2016-03  
International Electrotechnical Vocabulary – Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors; Amendment 1

**01.040.29**

**Elektrotehnika (Rječnici)**

**Međunarodna normizacija**

**IEC**

IEC 60050-614:2016-02

International electrotechnical vocabulary – Part 614: Generation, transmission and distribution of electricity – Operation

IEC 60050-192 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 192: Dependability; Amendment 1

IEC 60050-351 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 351: Control technology; Amendment 1

IEC 60050-395 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors; Amendment 1

IEC 60050-482 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 482: Primary and secondary cells and batteries; Amendment 1

IEC 60050-702 AMD 1:2016-03

International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices; Amendment 1

IEC 60050-904 AMD 2:2016-03

International Electrotechnical Vocabulary – Part 904: Environmental standardization for electrical and electronic products and systems; Amendment 1

**01.040.31**

**Elektronika (Rječnici)**

**Europska normizacija**

**CEN**

EN ISO 11145:2016-03

Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols  
(ISO 11145:2016)

**Međunarodna normizacija**

**ISO**

ISO 11145:2016-03

Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols

ISO 14880-1:2016-04

Optics and photonics – Microlens arrays – Part 1: Vocabulary and general properties

**IEC**

IEC 62595-1-2:2016-02

Display lighting unit – Part 1-2: Terminology and letter symbols

IEC 60050-702 AMD 1:2016-03

International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices; Amendment 1

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

### **Europska normizacija CEN**

EN ISO 15225:2016-04  
Medical devices – Quality management – Medical device nomenclature data structure  
(ISO 15225:2016)

### **ETSI**

ETSI GS MEC 001 V 1.1.1:2016-03  
Mobile Edge Computing (MEC) Terminology

### **Međunarodna normizacija ISO**

ISO/IEC 19762:2016-02  
Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary

ISO/IEC 27000:2016-02  
Information technology – Security techniques – Information security management systems – Overview and vocabulary

### **IEC**

IEC 61511-1:2016-02  
Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements

IEC 60050-351 AMD 1:2016-03  
International Electrotechnical Vocabulary – Part 351: Control technology; Amendment 1

IEC 62439-2:2016-03  
Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP)

IEC 62439-3:2016-03  
Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)

IEC 62439-5:2016-03  
Industrial communication networks – High availability automation networks – Part 5: Beacon Redundancy Protocol (BRP)

## **01.040.65                    Poljoprivreda (Rječnici)**

### **Međunarodna normizacija ISO**

ISO 13860:2016-03  
Machinery for forestry – Forwarders – Terms, definitions and commercial specifications

**01.040.73                    Rudarstvo i rude (Rječnici)**

**Međunarodna normizacija**  
**ISO**

ISO 7404-1:2016-04  
Methods for the petrographic analysis of coals – Part 1: Vocabulary

**01.040.81                    Industrija stakla i keramike (Rječnici)**

**Europska normizacija**  
**CEN**

EN 572-1+A1:2016-02  
Glass in building – Basic soda-lime silicate glass products – Part 1: Definitions and general physical and mechanical properties

**01.040.85                    Tehnologija papira (Rječnici)**

**Međunarodna normizacija**  
**ISO**

ISO 4046-1:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 1: Alphabetical index

ISO 4046-2:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 2: Pulping terminology

ISO 4046-3:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 3: Paper-making terminology

ISO 4046-4:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 4: Paper and board grades and converted products

ISO 4046-5:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 5: Properties of pulp, paper and board

**01.075                        Slovni simboli**

**Europska normizacija**  
**CEN**

EN ISO 11145:2016-03  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols  
(ISO 11145:2016)

**Međunarodna normizacija**  
**ISO**

ISO 11145:2016-03  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols

01.080.20 Grafički simboli za upotrebu na posebnoj opremi

# Međunarodna normizacija ISO

ISO 9244 AMD 1:2016-03  
Earth-moving machinery – Machine safety labels – General principles; Amendment 1

01.100.20 Crteži u strojarstvu

## Međunarodna normizacija ISO

ISO 18388:2016-02  
Technical product documentation (TPD) – Relief grooves – Types and dimensioning

01.110 Tehnička dokumentacija o proizvodu

## Međunarodna normizacija ISO

ISO 16016:2016-04  
Technical product documentation – Protection notices for restricting the use of documents and products

**01.120** Normizacija. Opća pravila

## **Europska normizacija CENELEC**

CENELEC Guide 8:2016-02  
The Vilamoura notification procedure for new national work and for the revision of national standards

## Međunarodna normizacija ISO

# ISO/IEC Directives Supplement IEC:2015-06 Procedures specific to IEC

## ISO/IEC Directives Supplement ISO:2015 Procedures specific to ISO

# ISO/IEC Directives Part 1 Supplement JTC 1:2015 Procedures specific to JTC 1

# ISO/IEC Guide 17:2016-03

## Guide for writing standards taking into account the needs of micro, small and medium-sized enterprises

**01.140.20                          Informacijske znanosti**

**Međunarodna normizacija  
ISO**

ISO 18461:2016-03  
International museum statistics

**03.100.30                          Upravljanje ljudskim resursima**

**Međunarodna normizacija  
ISO**

ISO 9926-3:2016-02  
Cranes – Training of operators – Part 3: Tower cranes

**03.100.40                          Istraživanje i razvoj**

**Europska normizacija  
CEN**

CEN-CENELEC Guide 32:2016-04  
Guide for addressing climate change adaptation in standards

**03.120.10                          Upravljanje kvalitetom i osiguravanje kvalitete**

**Europska normizacija  
CEN**

EN ISO 13485:2016-03  
Medical devices – Quality management systems – Requirements for regulatory purposes  
(ISO 13485:2016)

**Međunarodna normizacija  
ISO**

ISO 13485:2016-03  
Medical devices – Quality management systems – Requirements for regulatory purposes

**03.120.20                          Certificiranje proizvoda i tvrtki.Ocjenvivanje sukladnosti**

**03.120.30                          Primjena statističkih metoda**

**Međunarodna normizacija  
ISO**

ISO 7870-6:2016-02  
Control charts – Part 6: EWMA control charts

**03.220.01                    Prijevoz općenito**

**Međunarodna normizacija  
ISO**

ISO 14296:2016-02

Intelligent transport systems – Extension of map database specifications for applications of cooperative ITS

**03.220.20                    Cestovni prijevoz**

**Europska normizacija  
CEN**

EN ISO 17575-1:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 1: Charging (ISO 17575-1:2016)

EN ISO 17575-2:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 2: Communication and connection to the lower layers (ISO 17575-2:2016)

EN ISO 17575-3:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 3: Context data (ISO 17575-3:2016)

**03.240                    Poštanske usluge**

**Europska normizacija  
CEN**

EN 14508:2016-02

Postal services – Quality of service – Measurement of the transit time of end-to-end services for single piece non-priority mail and second class mail

**07.060                    Geologija. Meteorologija. Hidrologija**

**Međunarodna normizacija  
ISO**

ISO/TR 21414:2016-02

Hydrometry – Groundwater – Surface geophysical surveys for hydrogeological purposes

**07.100.30                    Mikrobiologija hrane**

**Međunarodna normizacija  
ISO**

ISO 18744:2016-04

Microbiology of the food chain – Detection and enumeration of Cryptosporidium and Giardia in fresh leafy green vegetables and berry fruits

## **11.040.01 Medicinska oprema općenito**

### **Europska normizacija CEN**

EN ISO 13485:2016-03

Medical devices – Quality management systems – Requirements for regulatory purposes  
(ISO 13485:2016)

EN ISO 11197:2016-03

Medical supply units (ISO 11197:2016)

EN ISO 15225:2016-04

Medical devices – Quality management – Medical device nomenclature data structure  
(ISO 15225:2016)

### **Međunarodna normizacija ISO**

ISO 11197:2016-02

Medical supply units

ISO 13485:2016-03

Medical devices – Quality management systems – Requirements for regulatory purposes

ISO 15225:2016-03

Medical devices – Quality management – Medical device nomenclature data structure

ISO 16142-1:2016-03

Medical devices – Recognized essential principles of safety and performance of medical devices – Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards

## **11.040.10 Anestezijska, respiracijska i reanimacijska oprema**

### **Europska normizacija CEN**

EN ISO 5360:2016-03

Anaesthetic vaporizers – Agent-specific filling systems (ISO 5360:2016)

EN ISO 7396-1:2016-03

Medical gas pipeline systems – Part 1: Pipeline systems for compressed medical gases and vacuum  
(ISO 7396-1:2016)

EN ISO 14408:2016-03

Tracheal tubes designed for laser surgery – Requirements for marking and accompanying information  
(ISO 14408:2016)

### **Međunarodna normizacija ISO**

ISO 5360:2016-02

Anaesthetic vaporizers – Agent-specific filling systems

ISO 7396-1:2016-02

Medical gas pipeline systems – Part 1: Pipeline systems for compressed medical gases and vacuum

ISO 14408:2016-02

Tracheal tubes designed for laser surgery – Requirements for marking and accompanying information

**11.040.20 Transfuzijska, infuzijska i injekcijska oprema**

**Europska normizacija**

**CEN**

EN ISO 8362-5:2016-03

Injection containers and accessories – Part 5: Freeze drying closures for injection vials (ISO 8362-5:2016)

**Međunarodna normizacija**

**ISO**

ISO 8362-5:2016-02

Injection containers and accessories – Part 5: Freeze drying closures for injection vials

**11.040.25 Šprice, Igle, Kateteri**

**Međunarodna normizacija**

**ISO**

ISO 8537:2016-03

Sterile single-use syringes, with or without needle, for insulin

IEC 80369-5:2016-03

Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications

ISO 80369-6:2016-03

Small bore connectors for liquids and gases in healthcare applications – Part 6: Connectors for neuraxial applications

**IEC**

IEC 80369-5:2016-03

Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications

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

**Međunarodna normizacija**

**ISO**

ISO 7206-4 AMD 1:2016-03

Implants for surgery – Partial and total hip joint prostheses – Part 4: Determination of endurance properties and performance of stemmed femoral components; Amendment 1

## **11.040.50**

### **Radiografska oprema**

#### **Međunarodna normizacija**

**IEC**

IEC 60601-2-44 AMD 2:2016-03

Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography; Amendment 2

IEC 60601-2-44 Edition 3.2:2016-03

Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography

IEC/TR 61948-1:2016-03

Nuclear medicine instrumentation – Routine tests – Part 1: Gamma radiation counting system

IEC 62563-1 AMD 1:2016-03

Medical electrical equipment – Medical image display systems – Part 1: Evaluation methods; Amendment 1

IEC 62563-1 Edition 1.1:2016-03

Medical electrical equipment – Medical image display systems – Part 1: Evaluation methods

## **11.040.55**

### **Dijagnostička oprema**

#### **Europska normizacija**

**CENELEC**

EN 60601-2-33/AC:2016-03

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis (IEC 60601-2-33:2010/COR2:2016)

#### **Međunarodna normizacija**

**IEC**

IEC 60601-2-33 Corrigendum 2:2016-02

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis; Corrigendum 2

## **11.040.70**

### **Oftalmološka oprema**

#### **Europska normizacija**

**CEN**

EN ISO 10322-1:2016-03

Ophthalmic optics – Semi-finished spectacle lens blanks – Part 1: Specifications for single-vision and multifocal lens blanks (ISO 10322-1:2016)

EN ISO 10322-2:2016-03

Ophthalmic optics – Semi-finished spectacle lens blanks – Part 2: Specifications for progressive-power and degressive-power lens blanks (ISO 10322-2:2016)

EN ISO 10685-2:2016-03

Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information (ISO 10685-2:2016)

**Međunarodna normizacija  
ISO**

ISO 10322-1:2016-03

Ophthalmic optics – Semi-finished spectacle lens blanks – Part 1: Specifications for single-vision and multifocal lens blanks

ISO 10322-2:2016-03

Ophthalmic optics – Semi-finished spectacle lens blanks – Part 2: Specifications for progressive-power and degressive-power lens blanks

ISO 10685-2:2016-03

Ophthalmic optics – Spectacle frames and sunglasses electronic catalogue and identification – Part 2: Commercial information

**11.060.01                    Stomatologija općenito**

**Europska normizacija  
CEN**

EN ISO 18739:2016-04

Dentistry – Vocabulary of process chain for CAD/CAM systems (ISO 18739:2016)

**Međunarodna normizacija  
ISO**

ISO 3950:2016-03

Dentistry – Designation system for teeth and areas of the oral cavity

ISO 18739:2016-03

Dentistry – Vocabulary of process chain for CAD/CAM systems

**11.060.10                    Stomatološki materijali**

**Europska normizacija  
CEN**

EN ISO 15912:2016-02

Dentistry – Refractory investment and die material (ISO 15912:2016)

EN ISO 22674:2016-02

Dentistry – Metallic materials for fixed and removable restorations and appliances (ISO 22674:2016)

EN ISO 9693-2:2016-03

Dentistry – Compatibility testing – Part 2: Ceramic-ceramic systems (ISO 9693-2:2016)

**Međunarodna normizacija  
ISO**

ISO 9693-2:2016-02

Dentistry – Compatibility testing – Part 2: Ceramic-ceramic systems

**11.060.25 Stomatološki instrumenti**

**Europska normizacija**  
**CEN**

EN ISO 18397:2016-02  
Dentistry – Powered scaler (ISO 18397:2016)

**11.080.10 Sterilizacijska oprema**

**Europska normizacija**  
**CEN**

EN ISO 15883-7:2016-03  
Washer-disinfectors – Part 7: Requirements and tests for washer-disinfectors employing chemical disinfection for non-invasive, non-critical thermolabile medical devices and healthcare equipment (ISO 15883-7:2016)

**Međunarodna normizacija**  
**ISO**

ISO 15883-7:2016-02  
Washer-disinfectors – Part 7: Requirements and tests for washer-disinfectors employing chemical disinfection for non-invasive, non-critical thermolabile medical devices and healthcare equipment

**11.080.20 Dezinficijensi i antiseptici**

**Europska normizacija**  
**CEN**

EN 12791:2016-02  
Chemical disinfectants and antiseptics – Surgical hand disinfection – Test method and requirements (phase 2, step 2)

**11.120.10 Lijekovi**

**Međunarodna normizacija**  
**ISO**

ISO 18668-1:2016-04  
Traditional Chinese medicine – Coding system for Chinese medicines – Part 1: Coding rules for Chinese medicines

**11.180.15 Pomagala za gluhe i osobe oštećenog sluha**

**Europska normizacija**  
**CENELEC**

EN 61669:2016-02  
Electroacoustics – Measurement of real-ear acoustical performance characteristics of hearing aids (IEC 61669:2015)

**11.180.30                    Pomagala za slijepce ili slabovidne osobe**

**Međunarodna normizacija**  
**ISO**

ISO 19028:2016-04

Accessible design – Information contents, figuration and display methods of tactile guide maps

**13.020.01                    Okoliš i zaštita okoliša općenito**

**Međunarodna normizacija**  
**IEC**

IEC 60050-904 AMD 2:2016-03

International Electrotechnical Vocabulary – Part 904: Environmental standardization for electrical and electronic products and systems; Amendment 1

**13.020.10                    Upravljanje okolišem**

**Europska normizacija**  
**CEN**

EN ISO 14004:2016-03

Environmental management systems – General guidelines on implementation (ISO 14004:2016)

EN ISO 14046:2016-02

Environmental management – Water footprint – Principles, requirements and guidelines  
(ISO 14046:2014)

**Međunarodna normizacija**  
**ISO**

ISO 14004:2016-03

Environmental management systems – General guidelines on implementation

**13.020.50                    Ekološko označivanje**

**Međunarodna normizacija**  
**ISO**

ISO 14021:2016-03

Environmental labels and declarations – Self-declared environmental claims (Type II environmental labelling)

**13.020.60                    Životni ciklusi proizvoda**

**Europska normizacija**  
**CEN**

EN ISO 14046:2016-02

Environmental management – Water footprint – Principles, requirements and guidelines  
(ISO 14046:2014)

EN 16751:2016-04  
Bio-based products – Sustainability criteria

**13.020.99                   Ostale norme koje se odnose na zaštitu okoliša**

**Europska normizacija**  
**CEN-CENELEC**

CEN-CENELEC Guide 32:2016-04  
Guide for addressing climate change adaptation in standards

**13.040.01                   Kvaliteta zraka općenito**

**Međunarodna normizacija**  
**ISO**

ISO 11665-9:2016-02  
Measurement of radioactivity in the environment – Air: Radon-222 – Part 9: Test methods for exhalation rate of building materials

**13.040.30                   Atmosfera u radnome prostoru**

**Europska normizacija**  
**CENELEC**

EN 45544-4:2016-03  
Workplace atmospheres – Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours – Part 4: Guide for selection, installation, use and maintenance

**Međunarodna normizacija**  
**ISO**

ISO 18158:2016-03  
Workplace air – Terminology

**13.040.40                   Emisije iz stacionarnih izvora**

**Međunarodna normizacija**  
**ISO**

ISO/IEC 28360 Technical Corrigendum 1:2016-02  
Information technology – Office equipment – Determination of chemical emission rates from electronic equipment; Technical Corrigendum 1

**13.060.10                   Voda iz prirodnih izvora**

**Međunarodna normizacija**  
**ISO**

ISO 5667-24:2016-04  
Water quality – Sampling – Part 24: Guidance on the auditing of water quality sampling

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

**Međunarodna normizacija**  
**ISO**

ISO 5667-24:2016-04

Water quality – Sampling – Part 24: Guidance on the auditing of water quality sampling

**13.060.60                    Ispitivanje fizikalnih svojstava vode**

**Međunarodna normizacija**  
**ISO**

ISO 13165-3:2016-03

Water quality – Radium-226 – Part 3: Test method using coprecipitation and gamma-spectrometry

**13.060.70                    Ispitivanje bioloških svojstava vode**

**Međunarodna normizacija**  
**ISO**

ISO 19827:2016-02

Water quality – Determination of the acute toxicity to the freshwater rotifer Brachionus calyciflorus

ISO 19820:2016-03

Water quality – Determination of the acute toxicity to the marine rotifer Brachionus plicatilis

**13.080.10                    Kemijske značajke tla**

**Europska normizacija**  
**CEN**

EN ISO 15009:2016-03

Soil quality – Gas chromatographic determination of the content of volatile aromatic hydrocarbons, naphthalene and volatile halogenated hydrocarbons – Purge-and-trap method with thermal desorption (ISO 15009:2016)

EN ISO 22155:2016-03

Soil quality – Gas chromatographic determination of volatile aromatic and halogenated hydrocarbons and selected ethers – Static headspace method (ISO 22155:2016)

**Međunarodna normizacija**  
**ISO**

ISO 15009:2016-02

Soil quality – Gas chromatographic determination of the content of volatile aromatic hydrocarbons, naphthalene and volatile halogenated hydrocarbons – Purge-and-trap method with thermal desorption

ISO 17586:2016-02

Soil quality – Extraction of trace elements using dilute nitric acid

ISO 22155:2016-02

Soil quality – Gas chromatographic determination of volatile aromatic and halogenated hydrocarbons and selected ethers – Static headspace method

13.110 Sigurnost strojeva

## **Europska normizacija CEN**

EN 16710-2:2016-03  
Ergonomics methods – Part 2: A methodology for work analysis to support design

### **13.140 Utjecaj buke na ljudе**

## **Europska normizacija CEN**

EN ISO 389-3:2016-02  
Acoustics – Reference zero for the calibration of audiometric equipment – Part 3: Reference equivalent threshold vibratory force levels for pure tones and bone vibrators (ISO 389-3:2016)

## Međunarodna normizacija ISO

ISO 1996-1:2016-03  
Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures

13.160 Iltiečiai vibracijai į udara na liude

## Međunarodna normizacija ISO

ISO 14835-1:2016-02  
Mechanical vibration and shock – Cold provocation tests for the assessment of peripheral vascular function – Part 1: Measurement and evaluation of finger skin temperature

13-180 Ergonomija

## Europska normizacija CFN

EN ISO 9241-391:2016-03  
Ergonomics of human-system interaction – Part 391: Requirements, analysis and compliance test methods for the reduction of photosensitive seizures (ISO 9241-391:2016)

EN 16710-2:2016-03  
Ergonomics methods – Part 2: A methodology for work analysis to support design

EN ISO 9241-161:2016-03  
Ergonomics of human-system interaction – Part 161: Guidance on visual user-interface elements  
(ISO 9241-161:2016)

## Međunarodna normizacija ISO

ISO 9241-161:2016-02  
Ergonomics of human-system interaction – Part 161: Guidance on visual user-interface elements

ISO 9241-391:2016-02

Ergonomics of human-system interaction – Part 391: Requirements, analysis and compliance test methods for the reduction of photosensitive seizures

ISO 19028:2016-04

Accessible design – Information contents, figuration and display methods of tactile guide maps

ISO 24505:2016-04

Ergonomics – Accessible design – Method for creating colour combinations taking account of age-related changes in human colour vision

ISO 27500:2016-03

The human-centred organization – Rationale and general principles

#### **13.220.20 Zaštita od požara**

**Europska normizacija**

**CEN**

EN 54-28:2016-02

Fire detection and fire alarm system – Part 28: Non-resettable line-type heat detectors

EN 50553/A1:2016-03

Railway applications – Requirements for running capability in case of fire on board of rolling stock

**Međunarodna normizacija**

**ISO**

ISO/PAS 19891-1:2016-03

Ships and marine technology – Specifications for gas detectors intended for use on board ships – Part 1: Portable gas detectors for atmosphere testing of enclosed spaces

#### **13.220.50 Vatrootpornost građevnih materijala i elemenata**

**Europska normizacija**

**CEN**

EN 81-73:2016-02

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 50575/A1:2016-03

Power, control and communication cables – Cables for general applications in construction works subject to reaction to fire requirements

**Međunarodna normizacija**

**ISO**

ISO 9705-1:2016-02

Reaction to fire tests – Room corner test for wall and ceiling lining products – Part 1: Test method for a small room configuration

## **13.230 Zaštita od eksplozija**

### **Međunarodna normizacija ISO**

ISO/IEC 80079-20-2:2016-02

Explosive atmospheres – Part 20-2: Material characteristics – Combustible dusts test methods

ISO 80079-36:2016-02

Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements

ISO 80079-37:2016-02

Explosive atmospheres – Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety „c“, control of ignition sources „b“, liquid immersion „k“

## **13.280 Zaštita od zračenja**

### **Europska normizacija CEN**

EN 1073-1:2016-02

Protective clothing against solid airborne particles including radioactive contamination – Part 1: Requirements and test methods for compressed air line ventilated protective clothing, protecting the body and the respiratory tract

### **Međunarodna normizacija ISO**

ISO 16637:2016-02

Radiological protection – Monitoring and internal dosimetry for staff members exposed to medical radionuclides as unsealed sources

## **13.320 Alarmni sustavi i sustavi uzbunjivanja**

### **Europska normizacija CEN**

EN 45544-4:2016-03

Workplace atmospheres – Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours – Part 4: Guide for selection, installation, use and maintenance

EN 50545-1/A1:2016-03

Electrical apparatus for the detection and measurement of toxic and combustible gases in car parks and tunnels – Part 1: General performance requirements and test methods for the detection and measurement of carbon monoxide and nitrogen oxides

### **Međunarodna normizacija IEC**

IEC 60839-5-2:2016-02

Alarm and electronic security systems – Part 5-2: Alarm transmission systems – Requirements for supervised premises transceiver (SPT)

IEC 60839-5-3:2016-02

Alarm and electronic security systems – Part 5-3: Alarm transmission systems – Requirements for receiving centre transceiver (RCT)

**13.340.10 Zaštitna odjeća**

**Europska normizacija**

**CEN**

EN 1073-1:2016-02

Protective clothing against solid airborne particles including radioactive contamination – Part 1: Requirements and test methods for compressed air line ventilated protective clothing, protecting the body and the respiratory tract

EN ISO 17491-4/A1:2016-03

Protective clothing – Test methods for clothing providing protection against chemicals – Part 4: Determination of resistance to penetration by a spray of liquid (spray test) (ISO 17491-4:2008/Amd 1:2016)

**Međunarodna normizacija**

**ISO**

ISO 17491-4 AMD 1:2016-02

Protective clothing – Test methods for clothing providing protection against chemicals – Part 4: Determination of resistance to penetration by a spray of liquid (spray test); Amendment 1

**13.340.20 Zaštitna oprema za glavu**

**Europska normizacija**

**CEN**

EN 458:2016-03

Hearing protectors – Recommendations for selection, use, care and maintenance – Guidance document

**13.340.40 Zaštića ruku i šaka**

**Europska normizacija**

**CEN**

EN 16778:2016-03

Protective gloves – The determination of Dimethylformamide in gloves

**17.120.10 Protok u zatvorenim cjevovodima**

**Europska normizacija**

**CEN**

EN ISO 5167-5:2016-03

Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 5: Cone meters (ISO 5167-5:2016)

**Međunarodna normizacija  
ISO**

ISO 5167-5:2016-03

Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 5: Cone meters

**17.140.01 Akustička mjerena i smanjenje buke općenito**

**Europska normizacija  
CEN**

EN ISO 6926:2016-02

Acoustics – Requirements for the performance and calibration of reference sound sources used for the determination of sound power levels (ISO 6926:2016)

**17.140.20 Buka koju proizvode strojevi i oprema**

**Međunarodna normizacija  
ISO**

ISO 18564:2016-04

Machinery for forestry – Noise test code

**IEC**

IEC 60076-10:2016-03

Power transformers – Part 10: Determination of sound levels

IEC 60076-10-1:2016-03

Power transformers – Part 10-1: Determination of sound levels – Application guide

**17.140.30 Buka koju proizvode prijevozna sredstva**

**Europska normizacija  
CEN**

EN 1793-5:2016-03

Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 5: Intrinsic characteristics – In situ values of sound reflection under direct sound field conditions

**Međunarodna normizacija  
ISO**

ISO 17208-1:2016-03

Underwater acoustics – Quantities and procedures for description and measurement of underwater sound from ships – Part 1: Requirements for precision measurements in deep water used for comparison purposes

17.140.50 Elektroakustika

## Međunarodna normizacija IEC

IEC 61260-2:2016-03

Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests

IEC 61260-3:2016-03

Electroacoustics – Octave-band and fractional-octave-band filters – Part 3: Periodic tests

## 17.160 Vibracije, udari i mjerjenja vibracija

## Međunarodna normizacija IEC

ISO 16063-21 AMD 1:2016-02

## Methods for the calibration of vibration and shock transducers – Part 21: Vibration calibration by comparison to a reference transducer; Amendment 1

17.200.01 Termodinamika općenito

## Međunarodna normizacija IEC

IEC 60051-1:2016-02

# Direct acting indicating analogue electrical measuring instruments and their accessories – Part 1: Definitions and general requirements common to all parts

17.220.20 Mjerenje električnih i magnetskih veličina

# Europska normizacija CEN

EN 60270/A1:2016-03

High-voltage test techniques – Partial discharge measurements (IEC 60270:2000/A1:2015)

## Međunarodna normizacija IEC

IEC 60556 AMD 1:2016-03

## Gyromagnetic materials intended for application at microwave frequencies – Measuring methods for properties; Amendment 1

IEC 60556 Edition 2.1:2016-03

## Gyromagnetic materials intended for application at microwave frequencies – Measuring methods for properties

## **17.240                    Mjerenja zračenja**

### **Europska normizacija CEN**

EN 62387:2016-02

Radiation protection instrumentation – Passive integrating dosimetry systems for individual, workplace and environmental monitoring of photon and beta radiation (IEC 62387:2012, modified)

EN 62533:2016-02

Radiation protection instrumentation – Highly sensitive hand-held instruments for photon detection of radioactive material (IEC 62533:2010, modified)

### **Međunarodna normizacija ISO**

ISO 11665-9:2016-02

Measurement of radioactivity in the environment – Air: Radon-222 – Part 9: Test methods for exhalation rate of building materials

ISO 13165-3:2016-03

Water quality – Radium-226 – Part 3: Test method using coprecipitation and gamma-spectrometry

### **IEC**

IEC 61017:2016-02

Radiation protection instrumentation – Transportable, mobile or installed equipment to measure photon radiation for environmental monitoring

## **19.100                    Nerazorna ispitivanja**

### **Europska normizacija CEN**

EN 13018:2016-02

Non-destructive testing – Visual testing – General principles

EN ISO 12707:2016-04

Non-destructive testing – Magnetic particle testing – Vocabulary (ISO 12707:2016)

### **Međunarodna normizacija ISO**

ISO 12707:2016-03

Non-destructive testing – Magnetic particle testing – Vocabulary

## **21.120.40                Uravnoteženje i strojevi za uravnoteženje**

### **Međunarodna normizacija ISO**

ISO 21940-12:2016-04

Mechanical vibration – Rotor balancing – Part 12: Procedures and tolerances for rotors with flexible behaviour

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

### **Europska normizacija CEN**

EN 1440:2016-02

LPG equipment and accessories – Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders – Periodic inspection

EN 16728: 016-03

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

### **Međunarodna normizacija ISO**

ISO 11119-4:2016-02

Gas cylinders – Refillable composite gas cylinders – Design, construction and testing – Part 4: Fully wrapped fibre reinforced composite gas cylinders up to 150 l with load-sharing welded metallic liners

## **23.020.40 Kriogeničke posude**

### **Europska normizacija CEN**

EN ISO 24490:2016-04

Cryogenic vessels – Pumps for cryogenic service (ISO 24490:2016)

### **Međunarodna normizacija ISO**

ISO 24490:2016-03

Cryogenic vessels – Pumps for cryogenic service

## **23.040.20 Plastične cijevi**

### **Europska normizacija CEN**

EN 12200-1:2016-04

Plastics rainwater piping systems for above ground external use – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes, fittings and the system

## **23.040.60 Prirubnice, spojnice i spojevi**

### **Međunarodna normizacija ISO**

ISO 8639:2016-02

Glass-reinforced thermosetting plastics (GRP) pipes and fittings – Test methods for leaktightness and proof of structural design of flexible joints

## **23.040.70 Crijeva i crijevni sklopovi**

**Europska normizacija**  
**CEN**

EN 14420-8+A1:2016-02  
Hose fittings with clamp units – Part 8: Symmetrical half coupling (Guillemin system)

EN ISO 5774:2016-02  
Plastics hoses – Textile-reinforced types for compressed-air applications – Specification  
(ISO 5774:2016)

## **23.060.01 Zaporni uređaji općenito**

**Europska normizacija**  
**CEN**

EN 19:2016-03  
Industrial valves – Marking of metallic valves

EN 16668:2016-04  
Industrial valves – Requirements and testing for metallic valves as pressure accessories

## **23.060.40 Regulatori tlaka**

**Europska normizacija**  
**CEN**

EN ISO 5774:2016-02  
Plastics hoses – Textile-reinforced types for compressed-air applications – Specification  
(ISO 5774:2016)

EN 13611/AC:2016-02  
Safety and control devices for burners and appliances burning gaseous and/or liquid fuels – General requirements

## **23.080 Pumpe**

**Međunarodna normizacija**  
**ISO**

ISO/ASME 14414 AMD 1:2016-04  
Pump system energy assessment; Amendment 1

## **23.100.40 Cijevovodi i spojnice**

**Međunarodna normizacija**  
**ISO**

ISO 15171-2:2016-02  
Connections for fluid power and general use – Hydraulic couplings for diagnostic purposes – Part 2:  
Coupling with M16 x 2 end for connection under pressure

## **25.040.20                  Numerički upravljeni strojevi**

### **Međunarodna normizacija ISO**

ISO 230-2 AMD 1:2016-01

Test code for machine tools – Part 2: Determination of accuracy and repeatability of positioning of numerically controlled axes; Amendment 1

ISO/ASTM 52915:2016-02

Specification for Additive Manufacturing File Format (AMF) Version 1.2

## **25.040.40                  Mjerenje i upravljanje u industrijskim procesima**

### **Međunarodna normizacija IEC**

IEC 61511-1:2016-02

Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements

IEC 62439-2:2016-03

Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP)

IEC 62439-3:2016-03

Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)

IEC 62439-5:2016-03

Industrial communication networks – High availability automation networks – Part 5: Beacon Redundancy Protocol (BRP)

## **25.060.20                  Diobene i stezne naprave za alat i obradak**

### **Međunarodna normizacija ISO**

ISO 10889-2:2016-03

Tool holders with cylindrical shank – Part 2: Type A, shanks for tool holders of special designs

ISO 10889-3:2016-03

Tool holders with cylindrical shank – Part 3: Type B with rectangular radial seat

ISO 10889-4:2016-03

Tool holders with cylindrical shank – Part 4: Type C with rectangular axial seat

ISO 10889-5:2016-03

Tool holders with cylindrical shank – Part 5: Type D with more than one rectangular seat

ISO 10889-6:2016-03

Tool holders with cylindrical shank – Part 6: Type E with cylindrical seat

ISO 10889-7:2016-03

Tool holders with cylindrical shank – Part 7: Type F with taper seat

## **25.080.01                    Alatni strojevi općenito**

### **Međunarodna normizacija ISO**

ISO 230-2 AMD 1:2016-01

Test code for machine tools – Part 2: Determination of accuracy and repeatability of positioning of numerically controlled axes; Amendment 1

ISO 230-10:2016-02

Test code for machine tools – Part 10: Determination of the measuring performance of probing systems of numerically controlled machine tools

## **25.100.01                    Alati za rezanje općenito**

### **Međunarodna normizacija ISO**

ISO 3286 : 2016-03

Single point cutting tools – Corner radii

ISO 3365:2016-03

Indexable hardmetal (carbide) inserts with wiper edges, without fixing hole – Dimensions

## **25.100.20                    Alati za glodanje**

### **Međunarodna normizacija ISO**

ISO 10145-1:2016-03

End mills with brazed helical hardmetal tips – Part 1: Dimensions of end mills with parallel shank

ISO 10145-2:2016-03

End mills with brazed helical hardmetal tips – Part 2: Dimensions of end mills with 7/24 taper shank

## **25.100.30                    Svrđla, upuštači, razvrtači**

### **Međunarodna normizacija ISO**

ISO 3466:2016-03

Machine taper pin reamers with parallel shanks

ISO 3467:2016-03

Machine taper pin reamers with Morse taper shanks

## **25.100.70                    Abrazivi**

### **Međunarodna normizacija ISO**

ISO 22917:2016-02

Precision superabrasives – Limit deviations and run-out tolerances for grinding wheels with diamond or cubic boron nitride

**25.120.30                    Oprema za lijevanje**

**Međunarodna normizacija  
ISO**

ISO 16916:2016-02  
Tools for moulding – Tool specification sheet for injection moulds

**25.140.20                    Električni alati**

**Međunarodna normizacija  
IEC**

IEC 62841-3-4:2016-02  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-4: Particular requirements for transportable bench grinders

**25.160.10                    Procesi zavarivanja**

**Europska normizacija  
CEN**

EN ISO 18278-2:2016-02  
Resistance welding – Weldability – Part 2: Evaluation procedures for weldability in spot welding (ISO 18278-2:2016)

EN ISO 11970:2016-03  
Anforderungen und Anerkennung von Schweißverfahren für das Produktionsschweißen von Stahlguss (ISO 11970:2016)

EN ISO 15614-8:2016-04  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 8: Welding of tubes to tube-plate joints (ISO 15614-8:2016)

**Međunarodna normizacija  
ISO**

ISO 11970:2016-03  
Specification and qualification of welding procedures for production welding of steel castings

ISO 15614-8:2016-03  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 8: Welding of tubes to tube-plate joints

ISO 17916:2016-03  
Safety of thermal cutting machines

ISO/TR 25901-1:2016-03  
Welding and allied processes – Vocabulary – Part 1: General terms

ISO/TR 25901-3:2016-03  
Welding and allied processes – Vocabulary – Part 3: Welding processes

ISO/TR 25901-4:2016-03  
Welding and allied processes – Vocabulary – Part 4: Arc welding

## **25.160.20 Dodatni i potrošni materijali za zavarivanje**

### **Europska normizacija CEN**

EN ISO 8430-1:2016-02

Resistance spot welding – Electrode holders – Part 1: Taper fixing 1:10 (ISO 8430-1:2016)

EN ISO 8430-2:2016-02

Widerstandspunktschweißen – Elektrodenhalter – Teil 2: Morsekegelbefestigung (ISO 8430-2:2016)

Resistance spot welding – Electrode holders – Part 2: Morse taper fixing (ISO 8430-2:2016)

EN ISO 8430-3:2016-02

Resistance spot welding – Electrode holders – Part 3: Parallel shank fixing for end thrust (ISO 8430-3:2016)

## **25.160.30 Oprema za zavarivanje**

### **Europska normizacija CENELEC**

EN 62135-1/AC:2016-02

Resistance welding equipment – Part 1: Safety requirements for design, manufacture and installation (IEC 62135-1:2015/COR1:2016)

EN ISO 669:2016-03

Resistance welding – Resistance welding equipment – Mechanical and electrical requirements (ISO 669:2016)

EN ISO 17662:2016-03

Welding – Calibration, verification and validation of equipment used for welding, including ancillary activities (ISO 17662:2016)

### **Međunarodna normizacija ISO**

ISO 669:2016-02

Resistance welding – Resistance welding equipment – Mechanical and electrical requirements

ISO 17662:2016-03

Welding – Calibration, verification and validation of equipment used for welding, including ancillary activities

### **IEC**

IEC 62135-1 Corrigendum 1:2016-02

Resistance welding equipment – Part 1: Safety requirements for design, manufacture and installation; Corrigendum 1

IEC 62822-1:2016-03

Electric welding equipment – Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) – Part 1: Product family standard

IEC 62822-2:2016-03

Electric welding equipment – Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) – Part 2: Arc welding equipment

## **25.160.40**

### **Zavareni spojevi i zavari**

#### **Europska normizacija**

**CEN**

EN ISO 9015-2:2016-02

Destructive tests on welds in metallic materials – Hardness testing – Part 2: Microhardness testing of welded joints (ISO 9015-2:2016)

EN ISO 14270:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for mechanized peel testing resistance spot, seam and embossed projection welds (ISO 14270:2016)

EN ISO 14272:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for cross tension testing of resistance spot and embossed projection welds (ISO 14272:2016)

EN ISO 14273:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for tensile shear testing resistance spot and embossed projection welds (ISO 14273:2016)

#### **Međunarodna normizacija**

**ISO**

ISO 14270:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for mechanized peel testing resistance spot, seam and embossed projection welds

ISO 14272:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for cross tension testing of resistance spot and embossed projection welds

ISO 14273:2016-03

Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for tensile shear testing resistance spot and embossed projection welds

## **25.160.50**

### **Tvrdo i meko lemljenje**

#### **Europska normizacija**

**CEN**

EN ISO 9454-1:2016-03

Soft soldering fluxes – Classification and requirements – Part 1: Classification, labelling and packaging (ISO 9454-1:2016)

#### **Međunarodna normizacija**

**ISO**

ISO 9454-1:2016-02

Soft soldering fluxes – Classification and requirements – Part 1: Classification, labelling and packaging

**25.220.01 Površinska obrada i prevlačenje općenito**

**Međunarodna normizacija  
ISO**

ISO 18535:2016-03

Diamond-like carbon films – Determination of friction and wear characteristics of diamond-like carbon films by ball-on-disc method

**25.220.20 Površinska obrada**

**Međunarodna normizacija  
ISO**

ISO 18555:2016-02

Metallic and other inorganic coatings – Determination of thermal conductivity of thermal barrier coatings

**25.220.40 Metalne prevlake**

**Europska normizacija  
CEN**

EN ISO 17668:2016-03

Zinc diffusion coatings on ferrous products – Sherardizing – Specification (ISO 17668:2016)

EN ISO 2178:2016-04

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method (ISO 2178:2016)

**Međunarodna normizacija  
ISO**

ISO 2178:2016-03

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method

**25.220.50 Emajli**

**Europska normizacija  
CEN**

EN ISO 11177:2016-03

Vitreous and porcelain enamels – Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply – Quality requirements and testing (ISO 11177:2016)

EN ISO 28765:2016-02

Vitreous and porcelain enamels – Design of bolted steel tanks for the storage or treatment of water or municipal or industrial effluents and sludges (ISO 28765:2016)

EN ISO 2178:2016-04

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method (ISO 2178:2016)

EN ISO 28721-5:2016-03

Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 5: Presentation and characterisation of defects (ISO 28721-5:2016)

**Međunarodna normizacija  
ISO**

ISO 11177:2016-02

Vitreous and porcelain enamels – Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply – Quality requirements and testing

ISO 28721-5:2016-02

Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 5: Presentation and characterization of defects

ISO 2178:2016-03

Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method

**27.010 Tehnika prijenosa energije i topline općenito**

**Europska normizacija  
CEN**

EN ISO/IEC 13273-1:2016-02

Energy efficiency and renewable energy sources – Common international terminology – Part 1: Energy efficiency (ISO/IEC 13273-1:2015)

**27.020 Motori s unutrašnjim izgaranjem**

**Međunarodna normizacija  
ISO**

ISO 4548-14:2016-02

Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 14: Cold start simulation and hydraulic pulse durability for composite filter housings

**27.060.20 Plinski plamenici**

**Međunarodna normizacija  
ISO**

ISO 23551-8:2016-02

Safety and control devices for gas burners and gas-burning appliances – Particular requirements – Part 8: Multifunctional controls

**27.060.30 Kotlovi i izmjenjivači topline**

**Međunarodna normizacija  
ISO**

ISO 18762:2016-04

Tubes of titanium and titanium alloys – Welded tubes for condensers and heat exchangers – Technical delivery conditions

**27.070 Gorivi članci**

**Europska normizacija  
CENELEC**

EN 62282-3-200:2016-03

Fuel cell technologies – Part 3-200: Stationary fuel cell power systems – Performance test methods (IEC 62282-3-200:2015)

**27.080 Dizalice topline**

**Europska normizacija  
CEN**

EN 14825:2016-03

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

**27.120.10 Reaktorska tehnika**

**Međunarodna normizacija  
IEC**

IEC 60050-395 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors; Amendment 1

**27.120.20 Nuklearne elektrane. Sigurnost**

**Europska normizacija  
CENELEC**

EN 61227:2016-03

Nuclear power plants – Control rooms – Operator controls (IEC 61227:2008)

**Međunarodna normizacija  
IEC**

IEC/IEEE 60780-323:2016-02

Nuclear facilities – Electrical equipment important to safety – Qualification

IEC 60965:2016-02

Nuclear power plants – Control rooms – Supplementary control room for reactor shutdown without access to the main control room

IEC/IEEE 62582-2 AMD 1:2016-02

Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 2: Indenter modulus; Amendment 1

IEC/IEEE 62582-2 Edition 1.1:2016-02

Nuclear power plants – Instrumentation and control important to safety – Electrical equipment condition monitoring methods – Part 2: Indenter modulus

**27.140                    Hidroenergetika**

**Europska normizacija  
CENELEC**

EN 61850-7-410/A1:2016-02

Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control (IEC 61850-7-410:2012/A1:2015)

**27.160                    Solarna energetika**

**Europska normizacija  
CENELEC**

EN 61829:2016-02

Photovoltaic (PV) array – On-site measurement of current- voltage characteristics (IEC 61829:2015)

**Međunarodna normizacija  
IEC**

IEC 61215-1:2016-03

Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements

IEC 61215-1-1:2016-03

Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules

IEC 61215-2:2016-03

Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures

**27.180                    Sustavi vjetroagregata**

**Međunarodna normizacija  
IEC**

IEC 61400-1 Edition 3.1 Corrigendum 1:2016-02

Wind turbines – Part 1: Design requirements; Corrigendum 1

**27.190                    Biološki izvori i alternativni izvori energije**

**Europska normizacija  
CEN-CENELEC**

EN ISO/IEC 13273-2:2016-02

Energy efficiency and renewable energy sources – Common international terminology – Part 2: Renewable energy sources (ISO/IEC 13273-2:2015)

EN ISO 17827-1:2016-04

Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above (ISO 17827-1:2016)

EN ISO 17830:2016-04

Solid biofuels – Particle size distribution of disintegrated pellets (ISO 17830:2016)

**Međunarodna normizacija  
ISO**

ISO 17827-1:2016-03

Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above

ISO 17830:2016-03

Solid biofuels – Particle size distribution of disintegrated pellets

**29.020**

**Elektrotehnika općenito**

**Međunarodna normizacija  
IEC**

IEC 60050-192 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 192: Dependability; Amendment 1

IEC 60050-351 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 351: Control technology; Amendment 1

IEC 60050-395 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors; Amendment 1

IEC 60050-702 AMD 1:2016-03

International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices; Amendment 1

IEC 60050-904 AMD 2:2016-03

International Electrotechnical Vocabulary – Part 904: Environmental standardization for electrical and electronic products and systems; Amendment 1

IEC 61882:2016-03

Hazard and operability studies (HAZOP studies) – Application guide

**29.030**

**Magnetni materijali**

**Međunarodna normizacija  
IEC**

IEC 60556 AMD 1:2016-03

Gyromagnetic materials intended for application at microwave frequencies – Measuring methods for properties; Amendment 1

IEC 60556 Edition 2.1:2016-03

Gyromagnetic materials intended for application at microwave frequencies – Measuring methods for properties

**29.035.01**

**Izolacijski materijali općenito**

**Europska normizacija  
CENELEC**

EN 61251:2016-02

Electrical insulating materials and systems – A.C. voltage endurance evaluation (IEC 61251:2015)

EN 62631-3-2:2016-02

Dielectric and resistive properties of solid insulating materials – Part 3-2: Determination of resistive properties (DC Methods) – Surface resistance and surface resistivity (IEC 62631-3-2:2015)

EN 62631-3-3:2016-03

Dielectric and resistive properties of solid insulating materials – Part 3-3: Determination of resistive properties (DC Methods) – Insulation resistance (IEC 62631-3-3:2015)

**Međunarodna normizacija**

**IEC**

IEC 62631-3-1:2016-03

Dielectric and resistive properties of solid insulating materials – Part 3-1: Determination of resistive properties (DC methods) – Volume resistance and volume resistivity – General method

**29.040.01 Izolacijski fluidi općenito**

**Europska normizacija**

**CENELEC**

EN 61251:2016-02

Electrical insulating materials and systems – A.C. voltage endurance evaluation (IEC 61251:2015)

**29.060.10 Žice**

**Europska normizacija**

**CENELEC**

EN 60317-59:2016-02

Specifications for particular type of winding wires – Part 59: Polyamideimide enameled round copper wire, class 240 (IEC 60317-59:2015)

**29.060.20 Kabeli**

**Europska normizacija**

**CENELEC**

EN 50575/A1:2016-03

Power, control and communication cables – Cables for general applications in construction works subject to reaction to fire requirements

**29.080.10 Izolatori**

**Europska normizacija**

**CENELEC**

EN 62621:2016-02

Railway applications – Fixed installations – Electric traction – Specific requirements for composite insulators used for overhead contact line systems (IEC 62621:2011)

## **29.100.10                    Magnetski sastavni dijelovi**

### **Europska normizacija CENELEC**

EN 60424-3:2016-02

Ferrite cores – Guidelines on the limits of surface irregularities – Part 3: ETD-cores, EER-cores, EC-cores and E-cores (IEC 60424-3:2015)

EN 60401-3:2016-03

Terms and nomenclature for cores made of magnetically soft ferrites – Part 3: Guidelines on the format of data appearing in manufacturers catalogues of transformer and inductor cores (IEC 60401-3:2015)

EN 60424-1:2016-03

Ferrite cores – Guidelines on the limits of surface irregularities – Part 1: General specification (IEC 60424-1:2015)

EN 60424-2:2016-03

Ferrite cores – Guidelines on the limits of surface irregularities – Part 2: RM-cores (IEC 60424-2:2015)

EN 60424-4:2016-03

Ferrite cores – Guidelines on the limits of surface irregularities – Part 4: Ring-cores (IEC 60424-4:2015)

EN 62317-6:2016-03

Ferrite cores – Dimensions – Part 6: ETD-cores for use in power supplies (IEC 62317-6:2015)

EN 62317-11:2016-02

Ferrite cores – Dimensions – Part 11: EC-cores for use in power supply applications (IEC 62317-11:2015)

## **29.120.10                    Zaštitne cijevi za električne potrebe**

### **Europska normizacija CENELEC**

EN 61914:2016-02

Cable cleats for electrical installations (IEC 61914:2015)

### **Međunarodna normizacija IEC**

IEC 60670-21 AMD 1:2016-02

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means; Amendment 1

IEC 60670-21 Edition 1.1:2016-02

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means

IEC 60670-23 AMD 1:2016-02

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 23: Particular requirements for floor boxes and enclosures; Amendment 1

IEC 60670-23 Edition 1.1:2016-02

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 23: Particular requirements for floor boxes and enclosures

#### **29.120.30 Utikači, utičnice, sprežnici**

**Međunarodna normizacija**

**IEC**

IEC 62847:2016-02

Railway applications – Rolling stock – Electrical connectors – Requirements and test methods

#### **29.120.40 Sklopke**

**Međunarodna normizacija**

**IEC**

IEC 62505-1:2016-02

Railway applications – Fixed installations – Particular requirements for AC switchgear – Part 1: Circuit-breakers with nominal voltage above 1 kV

IEC 62505-2:2016-02

Railway applications – Fixed installations – Particular requirements for AC switchgear – Part 2: Disconnectors, earthing switches and switches with nominal voltage above 1 kV

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

**Europska normizacija**

**CENELEC**

CLC/TR 50656:2016-03

SPD application in conjunction with Class II equipment

**Međunarodna normizacija**

**IEC**

IEC 62752:2016-03

In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

#### **29.120.99 Ostali električni pribor**

**Europska normizacija**

**CENELEC**

EN 61242/A2:2016-02

Electrical accessories – Cable reels for household and similar purposes (IEC 61242:1995/A2:2015)

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

### **Međunarodna normizacija IEC**

IEC 60947-5-5 AMD 2:2016-02

Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function; Amendment 2

IEC 60947-5-5 Edition 1.2:2016-02

Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function

## **29.140.40 Rasvjetna tijela**

### **Europska normizacija CENELEC**

EN 60598-1/AC:2016-01

Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/COR2:2015)

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

### **Europska normizacija CENELEC**

EN 61048/A1:2016-02

Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements (IEC 61048:2006/A1:2015)

EN 60929/A1:2016-03

AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements (IEC 60929:2011/A1:2015)

### **Međunarodna normizacija IEC**

IEC 62718 Corrigendum 1:2016-02

Railway applications – Rolling stock – D.C. supplied electronic ballasts for lighting fluorescent lamps; Corrigendum 1

## **29.160.30 Motori**

### **Europska normizacija CENELEC**

EN 61800-7-1:2016-02

Adjustable speed electrical power drive systems – Part 7-1: Generic interface and use of profiles for power drive systems – Interface definition (IEC 61800-7-1:2015)

EN 61800-7-201:2016-02

Adjustable speed electrical power drive systems – Part 7-201: Generic interface and use of profiles for power drive systems – Profile type 1 specification (IEC 61800-7-201:2015)

EN 61800-7-202:2016-02

Adjustable speed electrical power drive systems – Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification (IEC 61800-7-202:2015)

EN 61800-7-203:2016-02

Adjustable speed electrical power drive systems – Part 7-203: Generic interface and use of profiles for power drive systems – Profile type 3 specification (IEC 61800-7-203:2015)

EN 61800-7-204:2016-02

Adjustable speed electrical power drive systems – Part 7-204: Generic interface and use of profiles for power drive systems – Profile type 4 specification (IEC 61800-7-204:2015)

EN 61800-7-301:2016-02

Adjustable speed electrical power drive systems – Part 7-301: Generic interface and use of profiles for power drive systems – Mapping of profile type 1 to network technologies (IEC 61800-7-301:2015)

EN 61800-7-302:2016-02

Adjustable speed electrical power drive systems – Part 7-302: Generic interface and use of profiles for power drive systems – Mapping of profile type 2 to network technologies (IEC 61800-7-302:2015)

EN 61800-7-303:2016-02

Adjustable speed electrical power drive systems – Part 7-303: Generic interface and use of profiles for power drive systems – Mapping of profile type 3 to network technologies (IEC 61800-7-303:2015)

EN 61800-7-304:2016-02

Adjustable speed electrical power drive systems – Part 7-304: Generic interface and use of profiles for power drive systems – Mapping of profile type 4 to network technologies (IEC 61800-7-304:2015)

## **29.180**

### **Transformatori. Prigušnice**

#### **Međunarodna normizacija**

**IEC**

IEC 60076-10:2016-03

Power transformers – Part 10: Determination of sound levels

IEC 60076-10-1:2016-03

Power transformers – Part 10-1: Determination of sound levels – Application guide

## **29.200**

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

#### **Europska normizacija**

**CENELEC**

EN 61800-7-1:2016-02

Adjustable speed electrical power drive systems – Part 7-1: Generic interface and use of profiles for power drive systems – Interface definition (IEC 61800-7-1:2015)

EN 61800-7-201:2016-02

Adjustable speed electrical power drive systems – Part 7-201: Generic interface and use of profiles for power drive systems – Profile type 1 specification (IEC 61800-7-201:2015)

EN 61800-7-202:2016-02

Adjustable speed electrical power drive systems – Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification (IEC 61800-7-202:2015)

EN 61800-7-203:2016-02

Adjustable speed electrical power drive systems – Part 7-203: Generic interface and use of profiles for power drive systems – Profile type 3 specification (IEC 61800-7-203:2015)

EN 61800-7-204:2016-02

Adjustable speed electrical power drive systems – Part 7-204: Generic interface and use of profiles for power drive systems – Profile type 4 specification (IEC 61800-7-204:2015)

EN 61800-7-301:2016-02

Adjustable speed electrical power drive systems – Part 7-301: Generic interface and use of profiles for power drive systems – Mapping of profile type 1 to network technologies (IEC 61800-7-301:2015)

EN 61800-7-302:2016-02

Adjustable speed electrical power drive systems – Part 7-302: Generic interface and use of profiles for power drive systems – Mapping of profile type 2 to network technologies (IEC 61800-7-302:2015)

EN 61800-7-303:2016-02

Adjustable speed electrical power drive systems – Part 7-303: Generic interface and use of profiles for power drive systems – Mapping of profile type 3 to network technologies (IEC 61800-7-303:2015)

EN 61800-7-304:2016-02

Adjustable speed electrical power drive systems – Part 7-304: Generic interface and use of profiles for power drive systems – Mapping of profile type 4 to network technologies (IEC 61800-7-304:2015)

## **29.220.01**

### **Galvanski članci i baterije općenito**

#### **Međunarodna normizacija**

**IEC**

IEC 60050-482 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 482: Primary and secondary cells and batteries; Amendment 1

## **29.220.10**

### **Primarni članci i baterije**

#### **Europska normizacija**

**CENELEC**

EN 60086-2:2016-02

Primary batteries – Part 2: Physical and electrical specifications (IEC 60086-2:2015)

## **29.220.20**

### **Kiseli sekundarni članci i baterije**

#### **Europska normizacija**

**CENELEC**

EN 61982-4:2016-02

Secondary batteries (except lithium) for the propulsion of electric road vehicles – Part 4: Safety requirements of nickel-metal hydride cells and modules (IEC 61982-4:2015)

**29.240.01 Mreže za prijenos i razdobju električne energije općenito**

**Međunarodna normizacija**  
**IEC**

IEC 60050-614:2016-02  
International electrotechnical vocabulary – Part 614: Generation, transmission and distribution of electricity – Operation

**29.240.20 Vodovi za prijenos i razdobju električne energije**

**Europska normizacija**  
**CENELEC**

EN 50341-2-22:2016-03  
Overhead electrical lines exceeding AC 1 kV – Part 2-22: National Normative Aspects (NNA) for Poland (based on EN 50341-1:2012)

**29.240.30 Upravljačka oprema za elektroenergetske sustave**

**Međunarodna normizacija**  
**IEC**

IEC/TR 60919-3 AMD 1:2016-03  
Performance of high-voltage direct current (HVDC) systems with line-commutated converters – Part 3: Dynamic conditions; Amendment 1

IEC/TR 60919-3 Edition 2.1:2016-03  
Performance of high-voltage direct current (HVDC) systems with line-commutated converters – Part 3: Dynamic conditions

**29.260.20 Električni uređaji za eksplozivnu atmosferu**

**Europska normizacija**  
**CEN-CENELEC**

EN 60079-14/AC:2016-04  
Explosive atmospheres – Part 14: Electrical installations design, selection and erection (IEC 60079-14:2013/COR1:2016)

EN ISO/IEC 80079-20-2:2016-03  
Explosive atmospheres – Part 20-2: Material characteristics – Combustible dusts test methods (ISO/IEC 80079-20-2:2016)

EN ISO 80079-36:2016-04  
Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements (ISO 80079-36:2016)

EN ISO 80079-37:2016-04  
Explosive atmospheres – Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety „c“, control of ignition sources „b“, liquid immersion „k“ (ISO 80079-37:2016)

**Međunarodna normizacija**  
**IEC**

ISO/IEC 80079-38:2016-02

Explosive atmospheres – Part 38: Equipment and components in explosive atmospheres in underground mines

**29.280 Oprema za električnu vuču**

**Europska normizacija**  
**CENELEC**

EN 62621:2016-02

Railway applications – Fixed installations – Electric traction – Specific requirements for composite insulators used for overhead contact line systems (IEC 62621:2011)

**Međunarodna normizacija**  
**IEC**

IEC 62505-1:2016-02

Railway applications – Fixed installations – Particular requirements for AC switchgear – Part 1: Circuit-breakers with nominal voltage above 1 kV

IEC 62505-2:2016-02

Railway applications – Fixed installations – Particular requirements for AC switchgear – Part 2: Disconnectors, earthing switches and switches with nominal voltage above 1 kV

**31.020 Elektronički sastavni dijelovi općenito**

**Međunarodna normizacija**  
**IEC**

IEC 60050-702 AMD 1:2016-03

International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices; Amendment 1

**31.060.99 Ostali kondenzatori**

**Europska normizacija**  
**CENELEC**

EN 62391-1:2016-02

Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification (IEC 62391-1:2015)

**31.080.01 Poluvodičke naprave općenito**

**Međunarodna normizacija**  
**IEC**

IEC 62779-1:2016-02

Semiconductor devices – Semiconductor interface for human body communication – Part 1: General requirements

IEC 62779-2:2016-02

Semiconductor devices – Semiconductor interface for human body communication – Part 2:  
Characterization of interfacing performances

### 31.120 Električni uređaji za prikazivanje

**Europska normizacija**

**CEN**

EN ISO 9241-391:2016-03

Ergonomics of human-system interaction – Part 391: Requirements, analysis and compliance test  
methods for the reduction of photosensitive seizures (ISO 9241-391:2016)

**Međunarodna normizacija**

**ISO**

ISO 9241-391:2016-02

Ergonomics of human-system interaction – Part 391: Requirements, analysis and compliance test  
methods for the reduction of photosensitive seizures

**IEC**

IEC 61747-20-3:2016-02

Liquid crystal display devices – Part 20-3: Visual inspection – Active matrix colour liquid crystal display  
modules

IEC 62595-1-2:2016-02

Display lighting unit – Part 1-2: Terminology and letter symbols

### 31.140 Piezoelektrične naprave

**Europska normizacija**

**CENELEC**

EN 62575-1:2016-02

Radio frequency (RF) bulk acoustic wave (BAW) filters of assessed quality – Part 1: Generic  
specification (IEC 62575-1:2015)

### 31.160 Električni filtri

**Europska normizacija**

**CENELEC**

EN 62575-1:2016-02

Radio frequency (RF) bulk acoustic wave (BAW) filters of assessed quality – Part 1: Generic  
specification (IEC 62575-1:2015)

### 31.180 Tiskani krugovi i pločice

**Međunarodna normizacija**

**IEC**

IEC 62326-20:2016-02

Printed boards – Part 20: Printed circuit boards for high-brightness LEDs

IEC 62899-201:2016-02  
Printed electronics – Part 201: Materials – Substrates

IEC 62899-202:2016-02  
Printed electronics – Part 202: Materials – Conductive ink

### **31.200                    Integrirani krugovi. Mikroelektronika**

**Europska normizacija**  
**CENELEC**

EN 62132-1:2016-02  
Integrated circuits – Measurement of electromagnetic immunity – Part 1: General conditions and definitions (IEC 62132-1:2015)

### **31.220.10                Utikačke i utičničke naprave. Konektori**

**Europska normizacija**  
**CENELEC**

EN 61076-4-116/A1:2016-03  
Connectors for electronic equipment – Product requirements – Part 4-116: Printed board connectors – Detail specification for a high-speed two-part connector with integrated shielding function

### **31.240                    Mehaničke konstrukcije za električnu opremu**

**Europska normizacija**  
**CENELEC**

EN 60297-3-109:2016-02  
Mechanical structures for electrical and electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-109: Dimensions of chassis for embedded computing devices (IEC 60297-3-109:2015)

### **31.260                    Optoelektronika. Laserska oprema**

**Europska normizacija**  
**CEN**

EN ISO 11145:2016-03  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols (ISO 11145:2016)

**Međunarodna normizacija**  
**ISO**

ISO 11145:2016-03  
Optics and photonics – Lasers and laser-related equipment – Vocabulary and symbols

ISO 14880-1:2016-04  
Optics and photonics – Microlens arrays – Part 1: Vocabulary and general properties

## **IEC**

IEC 60747-5-6:2016-02

Semiconductor devices – Part 5-6: Optoelectronic devices – Light emitting diodes

IEC 60747-5-7:2016-02

Semiconductor devices – Part 5-7: Optoelectronic devices – Photodiodes and phototransistors

IEC 62572-3:2016-02

Fibre optic active components and devices – Reliability standards – Part 3: Laser modules used for telecommunication

### **33.020**

### **Telekomunikacije općenito**

#### **Europska normizacija**

**ETSI**

ETSI TS 102950-1 V 1.5.1:2016-02

Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 1: Implementation Conformance Statement (ICS)

ETSI TS 102950-2 V 1.5.1:2016-02

Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 102950-3 V 1.5.1:2016-02

Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 3: Abstract Test Suite (ATS) and Implementation eXtra Information for Testing (IXIT)

ETSI TS 103255 V 1.2.1:2016-02

Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite for use of XML schema – Abstract Test Suite & IXIT

ETSI TS 103254 V 1.2.1:2016-03

Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite for use of XML schema – Test Suite Structure and Test Purposes (TSS&TP)

### **33.040.01**

### **Telekomunikacijski sustavi općenito**

#### **Europska normizacija**

**ETSI**

ETSI SR 019020 V 1.1.1:2016-02

The framework for standardization of signatures – Standards for AdES digital signatures in mobile and distributed environments

ETSI TR 102575 V 1.2.1:2016-03

Human Factors (HF) – An IP-based text telephony solution known as 'Reliable RTT'

ETSI TR 103201 V 1.1.1:2016-03

Emergency Communications (EMTEL) – Total Conversation for emergency communications – implementation guidelines

ETSI TR 119001 V 1.2.1:2016-03

Electronic Signatures and Infrastructures (ESI) – The framework for standardization of signatures – Definitions and abbreviations

ETSI TR 119100 V 1.1.1 : 2016-03

Electronic Signatures and Infrastructures (ESI) – Guidance on the use of standards for signature creation and validation

ETSI TS 119101 V 1.1.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for applications for signature creation and signature validation

ETSI TR 119300 V 1.2.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Guidance on the use of standards for cryptographic suites

ETSI TR 119400 V 1.1.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Guidance on the use of standards for trust service providers supporting digital signatures and related services

ETSI TR 119600 V 1.2.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Guidance on the use of standards for trust service status lists providers

### **33.040.35**

#### **Telefonske mreže**

##### **Europska normizacija**

**ETSI**

ETSI TS 101671 V 3.14.1:2016-03

Lawful Interception (LI) – Handover interface for the lawful interception of telecommunications traffic

ETSI TS 102232-1 V 3.11.1:2016-03

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery

ETSI TS 102232-2 V 3.9.1:2016-03

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 2: Service-specific details for messaging services

ETSI TS 102232-7 V 3.3.1:2016-03

Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services

ETSI TS 103120 V 1.2.1 : 2016-03

Lawful Interception (LI) – Interface for warrant information

### **33.040.40**

#### **Mreže za prijenos podataka**

##### **Europska normizacija**

**CENELEC**

EN 61850-7-410/A1:2016-02

Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control (IEC 61850-7-410:2012/A1:2015)

**ETSI**

ETSI SR 003381 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Identification of Cloud user needs

ETSI SR 003382 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Cloud Computing Standards and Open Source – Optimizing the relationship between standards and Open Source in Cloud Computing

ETSI SR 003391 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Interoperability and Security in Cloud Computing

ETSI SR 003392 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Cloud Computing Standards Maturity Assessment – A new snapshot of Cloud Computing Standards

ETSI GS NFV-EVE 004 V 1.1.1:2016-03

Network Functions Virtualisation (NFV) – Virtualisation Technologies – Report on the application of Different Virtualisation Technologies in the NFV Framework

#### **Međunarodna normizacija**

**IEC**

IEC/TR 61850-90-2:2016-02

Communication networks and systems for power utility automation – Part 90-2: Using IEC 61850 for communication between substations and control centres

**33.040.99**

**Ostala oprema za komunikacijske sustave**

#### **Europska normizacija**

**ETSI**

ETSI TS 102710-1 V 5.2.1:2016-02

Core Network and Interoperability Testing (INT) – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks – Conformance Test Specification – (3GPPTM Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 102710-2 V 5.2.1:2016-02

Core Network and Interoperability Testing (INT) – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks – Conformance Test Specification – (3GPPTM Release 10) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

**33.060.20**

**Prijamna i odašiljačka oprema**

#### **Europska normizacija**

**CEN**

EN 300065 V 2.1.1:2016-03

Narrow-band direct-printing telegraph equipment for receiving meteorological or navigational information (NAVTEX) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU

EN 300296 V 2.1.1:2016-03

Land Mobile Service – Radio equipment using integral antennas intended primarily for analogue speech – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300341 V 2.1.1:2016-03

Land Mobile Service – Radio equipment using an integral antenna transmitting signals to initiate a specific response in the receiver – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300390 V 2.1.1:2016-03

Land Mobile Service – Radio equipment intended for the transmission of data (and speech) and using an integral antenna – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 302561 V 2.1.1:2016-03

Land Mobile Service – Radio equipment using constant or non-constant envelope modulation operating in a channel bandwidth of 25 kHz, 50 kHz, 100 kHz or 150 kHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 302885 V 2.1.1:2016-03

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

EN 302961 V 2.1.1:2016-03

Maritime Personal Homing Beacon intended for use on the frequency 121,5 MHz for search and rescue purposes only – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303039 V 2.1.1 : 2016-03

Land Mobile Service – Multichannel transmitter specification for the PMR Service – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

## **ETSI**

ETSI TS 103146-3 V 1.1.1:2016-02

Reconfigurable Radio Systems (RRS) – Mobile device information models and protocols – Part 3: Unified Radio Application Interface (URAI)

ETSI TR 103288 V 1.1.1:2016-02

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Report of the CENELEC/ETSI Joint Working Group in response to the EC letter ENTRP/F5/DP/MM/entr.f5.(2013)43164 to the ESOs

### **33.060.40 Kabelski distribucijski sustavi**

#### **Međunarodna normizacija**

**IEC**

IEC 60728-11:2016-03

Cable networks for television signals, sound signals and interactive services – Part 11: Safety

### **33.070.10 Terestrijalni trunking radio (TETRA)**

#### **Europska normizacija**

**ETSI**

ETSI TS 100392-5 V 2.4.1:2016-03

Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) and Direct Mode Operation (DMO) – Part 5: Peripheral Equipment Interface (PEI)

**Europska normizacija  
ETSI**

ETSI TS 102281 V 3.0.0 : 2016-02

Railways Telecommunications (RT) – Global System for Mobile communications (GSM) – Detailed requirements for GSM operation on Railways

ETSI TS 121111 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – USIM and IC card requirements (3GPP TS 21.111 version 13.0.0 Release 13)

ETSI TS 122001 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.001 version 13.0.0 Release 13)

ETSI TS 122002 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.002 version 13.0.0 Release 13)

ETSI TS 122003 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Circuit Teleservices supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.003 version 13.0.0 Release 13)

ETSI TS 122004 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – General on supplementary services (3GPP TS 22.004 version 13.0.0 Release 13)

ETSI TS 122016 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – International Mobile station Equipment Identities (IMEI) (3GPP TS 22.016 version 13.0.0 Release 13)

ETSI TS 122022 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Personalisation of Mobile Equipment (ME) – Mobile functionality specification (3GPP TS 22.022 version 13.0.0 Release 13)

ETSI TS 122024 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Description of Charge Advice Information (CAI) (3GPP TS 22.024 version 13.0.0 Release 13)

ETSI TS 122030 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Man-Machine Interface (MMI) of the User Equipment (UE) (3GPP TS 22.030 version 13.0.0 Release 13)

ETSI TS 122031 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – 3G Security – Fraud Information Gathering System (FIGS) – Service description – Stage 1 (3GPP TS 22.031 version 13.0.0 Release 13)

ETSI TS 122032 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Immediate Service Termination (IST) – Service description – Stage 1 (3GPP TS 22.032 version 13.0.0 Release 13)

ETSI TS 122034 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – High Speed Circuit Switched Data (HSCSD) – Stage 1 (3GPP TS 22.034 version 13.0.0 Release 13)

ETSI TS 122038 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – (U)SIM Application Toolkit (USAT) – Service description – Stage 1 (3GPP TS 22.038 version 13.0.0 Release 13)

ETSI TS 122041 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Operator Determined Barring (ODB) (3GPP TS 22.041 version 13.0.0 Release 13)

ETSI TS 122042 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Network Identity and TimeZone (NITZ) – Service description – Stage 1 (3GPP TS 22.042 version 13.0.0 Release 13)

ETSI TS 122142 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Value Added Services (VAS) for Short Message Service (SMS) requirements (3GPP TS 22.142 version 13.0.0 Release 13)

ETSI TS 126269 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – eCall data transfer – In-band modem solution – Conformance testing (3GPP TS 26.269 version 13.0.0 Release 13)

ETSI TS 126445 V 12.5.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 12.5.0 Release 12)

ETSI TS 126445 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 13.0.0 Release 13)

ETSI TR 126969 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – eCall data transfer – In-band modem solution – Characterization report (3GPP TR 26.969 version 13.0.0 Release 13)

ETSI TS 129168 V 10.3.1:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Cell Broadcast Centre interfaces with the Evolved Packet Core – Stage 3 (3GPP TS 29.168 version 10.3.1 Release 10)

ETSI TS 132150 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) Concept and definitions (3GPP TS 32.150 version 13.0.0 Release 13)

ETSI TS 132151 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) Information Service (IS) template (3GPP TS 32.151 version 13.0.0 Release 13)

ETSI TS 132152 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire (3GPP TS 32.152 version 13.0.0 Release 13)

ETSI TS 132153 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) technology specific templates, rules and guidelines (3GPP TS 32.153 version 13.0.0 Release 13)

ETSI TS 132154 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Backward and Forward Compatibility (BFC) – Concept and definitions (3GPP TS 32.154 version 13.0.0 Release 13)

ETSI TS 132156 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fixed Mobile Convergence (FMC) model repertoire (3GPP TS 32.156 version 13.0.0 Release 13)

ETSI TS 132157 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) Information Service (IS) template (3GPP TS 32.157 version 13.0.0 Release 13)

ETSI TS 132181 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – User Data Convergence (UDC) – Framework for Model Handling and Management (3GPP TS 32.181 version 13.0.0 Release 13)

ETSI TS 132182 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – User Data Convergence (UDC) – Common baseline information model (CBIM) (3GPP TS 32.182 version 13.0.0 Release 13)

ETSI TS 132250 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Circuit Switched (CS) domain charging (3GPP TS 32.250 version 13.0.0 Release 13)

ETSI TS 132270 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Multimedia Messaging Service (MMS) charging (3GPP TS 32.270 version 13.0.0 Release 13)

ETSI TS 132271 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Location Services (LCS) charging (3GPP TS 32.271 version 13.0.0 Release 13)

ETSI TS 132272 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Push-to-talk over Cellular (PoC) charging (3GPP TS 32.272 version 13.0.0 Release 13)

ETSI TS 132274 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Short Message Service (SMS) charging (3GPP TS 32.274 version 13.0.0 Release 13)

ETSI TS 132276 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Voice Call Service (VCS) charging (3GPP TS 32.276 version 13.0.0 Release 13)

ETSI TS 132277 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Proximity-based Services (ProSe) charging (3GPP TS 32.277 version 13.0.0 Release 13)

ETSI TS 132293 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Proxy function (3GPP TS 32.293 version 13.0.0 Release 13)

ETSI TS 132295 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) transfer (3GPP TS 32.295 version 13.0.0 Release 13)

ETSI TS 132296 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Online Charging System (OCS): Applications and interfaces (3GPP TS 32.296 version 13.0.0 Release 13)

ETSI TS 132300 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Name convention for Managed Objects (3GPP TS 32.300 version 13.0.0 Release 13)

ETSI TS 132301 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Notification Integration Reference Point (IRP) – Requirements (3GPP TS 32.301 version 13.0.0 Release 13)

ETSI TS 132302 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Notification Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.302 version 13.0.0 Release 13)

ETSI TS 132306 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Notification Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.306 version 13.0.0 Release 13)

ETSI TS 132311 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Integration Reference Point (IRP) management – Requirements (3GPP TS 32.311 version 13.0.0 Release 13)

ETSI TS 132312 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Integration Reference Point (IRP) management – Information Service (IS) (3GPP TS 32.312 version 13.0.0 Release 13)

ETSI TS 132316 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Integration Reference Point (IRP) management – Solution Set (SS) definitions (3GPP TS 32.316 version 13.0.0 Release 13)

ETSI TS 132321 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Test management Integration Reference Point (IRP) – Requirements (3GPP TS 32.321 version 13.0.0 Release 13)

ETSI TS 132322 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Test management Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.322 version 13.0.0 Release 13)

ETSI TS 132326 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Test management Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.326 version 13.0.0 Release 13)

ETSI TS 132331 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Notification Log (NL) Integration Reference Point (IRP) – Requirements (3GPP TS 32.331 version 13.0.0 Release 13)

ETSI TS 132332 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Notification Log (NL) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.332 version 13.0.0 Release 13)

ETSI TS 132336 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Notification Log (NL) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.336 version 13.0.0 Release 13)

ETSI TS 132341 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – File Transfer (FT) Integration Reference Point (IRP) – Requirements (3GPP TS 32.341 version 13.0.0 Release 13)

ETSI TS 132342 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – File Transfer (FT) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.342 version 13.0.0 Release 13)

ETSI TS 132346 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – File Transfer (FT) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.346 version 13.0.0 Release 13)

ETSI TS 132351 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Communication Surveillance (CS) Integration Reference Point (IRP) – Requirements (3GPP TS 32.351 version 13.0.0 Release 13)

ETSI TS 132352 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Communication Surveillance (CS) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.352 version 13.0.0 Release 13)

ETSI TS 132356 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Communication Surveillance (CS) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.356 version 13.0.0 Release 13)

ETSI TS 132361 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Entry Point (EP) Integration Reference Point (IRP) – Requirements (3GPP TS 32.361 version 13.0.0 Release 13)

ETSI TS 132362 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Entry Point (EP) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.362 version 13.0.0 Release 13)

ETSI TS 132366 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Entry Point (EP) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.366 version 13.0.0 Release 13)

ETSI TS 132371 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Security Management concept and requirements (3GPP TS 32.371 version 13.0.0 Release 13)

ETSI TS 132372 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Security services for Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.372 version 13.0.0 Release 13)

ETSI TS 132376 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Security services for Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.376 version 13.0.0 Release 13)

ETSI TS 132381 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Partial Suspension of Itf-N Integration Reference Point (IRP) – Requirements (3GPP TS 32.381 version 13.0.0 Release 13)

ETSI TS 132382 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Partial Suspension of Itf-N Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.382 version 13.0.0 Release 13)

ETSI TS 132386 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Partial Suspension of Itf-N Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.386 version 13.0.0 Release 13)

ETSI TS 132391 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Delta synchronization Integration Reference Point (IRP) – Requirements (3GPP TS 32.391 version 13.0.0 Release 13)

ETSI TS 132392 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Delta synchronization Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.392 version 13.0.0 Release 13)

ETSI TS 132396 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Delta synchronization Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.396 version 13.0.0 Release 13)

ETSI TS 132583 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – Procedure flows for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.583 version 13.0.0 Release 13)

ETSI TS 132584 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – Telecommunication management – Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – XML definitions for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.584 version 13.0.0 Release 13)

ETSI TS 132593 V 13.0.0:2016-02

LTE – Telecommunication management – Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – Procedure flows for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.593 version 13.0.0 Release 13)

ETSI TS 132594 V 13.0.0:2016-02

LTE – Telecommunication management – Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – XML definitions for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.594 version 13.0.0 Release 13)

ETSI TS 132600 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Concept and high-level requirements (3GPP TS 32.600 version 13.0.0 Release 13)

ETSI TS 132601 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Basic CM Integration Reference Point (IRP) – Requirements (3GPP TS 32.601 version 13.0.0 Release 13)

ETSI TS 132602 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Basic CM Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.602 version 13.0.0 Release 13)

ETSI TS 132606 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Basic CM Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.606 version 13.0.0 Release 13)

ETSI TS 132611 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Bulk CM Integration Reference Point (IRP): Requirements (3GPP TS 32.611 version 13.0.0 Release 13)

ETSI TS 132612 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Bulk CM Integration Reference Point (IRP): Information Service (IS) (3GPP TS 32.612 version 13.0.0 Release 13)

ETSI TS 132616 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Bulk CM Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.616 version 13.0.0 Release 13)

ETSI TS 132661 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Kernel CM Requirements (3GPP TS 32.661 version 13.0.0 Release 13)

ETSI TS 132662 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Kernel CM Information Service (IS) (3GPP TS 32.662 version 13.0.0 Release 13)

ETSI TS 132666 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Kernel CM Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.666 version 13.0.0 Release 13)

ETSI TS 132690 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Inventory Management (IM) – Requirements (3GPP TS 32.690 version 13.0.0 Release 13)

ETSI TR 132901 V 13.0.0:2016-02

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Study on User Data Convergence (UDC) information model handling and provisioning: Example use cases (3GPP TR 32.901 version 13.0.0 Release 13)

ETSI TS 134121-1 V 12.2.0:2016-02

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 1: Conformance specification (3GPP TS 34.121-1 version 12.2.0 Release 12)

ETSI TS 134122 V 11.12.0:2016-02

Universal Mobile Telecommunications System (UMTS) – Terminal conformance specification – Radio transmission and reception (TDD) (3GPP TS 34.122 version 11.12.0 Release 11)

ETSI TS 134123-3 V 12.2.0:2016-02

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.123-3 version 12.2.0 Release 12)

ETSI TS 134131 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Test Specification for C-language binding to (Universal) Subscriber Interface

Module ((U)SIM) Application Programming Interface (API) (3GPP TS 34.131 version 13.0.0 Release 13)

ETSI TS 136304 V 13.0.0:2016-02

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 13.0.0 Release 13)

ETSI TS 136321 V 13.0.0:2016-02

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 13.0.0 Release 13)

ETSI TS 136508 V 12.8.0:2016-02

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Common test environments for User Equipment (UE) conformance testing (3GPP TS 36.508 version 12.8.0 Release 12)

ETSI TS 136523-3 V 12.4.0:2016-02

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 12.4.0 Release 12)

ETSI TS 151010-1 V 12.7.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 12.7.0 Release 12)

ETSI TS 151010-4 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (3GPP TS 51.010-4 version 13.0.0 Release 13)

ETSI TS 151013 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Test specification for Subscriber Identity Module (SIM) Application Programming Interface (API) for Java Card (3GPP TS 51.013 version 13.0.0 Release 13)

ETSI TS 152008 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Telecommunication management – GSM subscriber and equipment trace (3GPP TS 52.008 version 13.0.0 Release 13)

ETSI TS 152402 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Telecommunication management – Performance Management (PM) – Performance measurements – GSM (3GPP TS 52.402 version 13.0.0 Release 13)

ETSI TR 121900 V 13.0.1:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Technical Specification Group working methods (3GPP TR 21.900 version 13.0.1 Release 13)

ETSI TR 121905 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Vocabulary for 3GPP Specifications (3GPP TR 21.905 version 13.0.0 Release 13)

ETSI TS 122011 V 13.4.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Service accessibility (3GPP TS 22.011 version 13.4.0 Release 13)

ETSI TS 122071 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Service description – Stage 1 (3GPP TS 22.071 version 13.0.0 Release 13)

ETSI TS 122101 V 13.7.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Service aspects – Service principles (3GPP TS 22.101 version 13.7.0 Release 13)

ETSI TS 122115 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Service aspects – Charging and billing (3GPP TS 22.115 version 13.3.0 Release 13)

ETSI TS 122153 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia priority service (3GPP TS 22.153 version 13.0.0 Release 13)

ETSI TS 122173 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services – Stage 1 (3GPP TS 22.173 version 13.1.0 Release 13)

ETSI TS 122182 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Customized Alerting Tones (CAT) requirements – Stage 1 (3GPP TS 22.182 version 13.0.0 Release 13)

ETSI TS 122183 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Customized Ringing Signal (CRS) requirements – Stage 1 (3GPP TS 22.183 version 13.0.0 Release 13)

ETSI TS 122228 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS) – Stage 1 (3GPP TS 22.228 version 13.3.0 Release 13)

ETSI TS 122278 V 12.7.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Service requirements for the Evolved Packet System (EPS) (3GPP TS 22.278 version 12.7.0 Release 12)

ETSI TS 122278 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Service requirements for the Evolved Packet System (EPS) (3GPP TS 22.278 version 13.2.0 Release 13)

ETSI TS 122368 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Service requirements for Machine-Type Communications (MTC) – Stage 1 (3GPP TS 22.368 version 13.1.0 Release 13)

ETSI TS 122468 V 13.0.0:2016-03

LTE – Group Communication System Enablers for LTE (GCSE LTE) 3GPP TS 22.468 version 13.0.0 Release 13

ETSI TS 123002 V 13.4.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Network architecture (3GPP TS 23.002 version 13.4.0 Release 13)

ETSI TS 123003 V 12.9.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 12.9.0 Release 12)

ETSI TS 123003 V 13.4.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 13.4.0 Release 13)

ETSI TS 123007 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 13.3.0 Release 13)

ETSI TS 123008 V 12.9.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Organization of subscriber data (3GPP TS 23.008 version 12.9.0 Release 12)

ETSI TS 123008 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Organization of subscriber data (3GPP TS 23.008 version 13.3.0 Release 13)

ETSI TS 123014 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Support of Dual Tone Multi-Frequency (DTMF) signalling (3GPP TS 23.014 version 13.0.0 Release 13)

ETSI TS 123034 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – High Speed Circuit Switched Data (HSCSD) – Stage 2 (3GPP TS 23.034 version 13.0.0 Release 13)

ETSI TS 123038 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Alphabets and language-specific information (3GPP TS 23.038 version 13.0.0 Release 13)

ETSI TS 123040 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of the Short Message Service (SMS) (3GPP TS 23.040 version 13.0.0 Release 13)

ETSI TS 123041 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of Cell Broadcast Service (CBS) (3GPP TS 23.041 version 13.2.0 Release 13)

ETSI TS 123042 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Compression algorithm for text messaging services (3GPP TS 23.042 version 13.0.0 Release 13)

ETSI TS 123060 V 12.11.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 12.11.0 Release 12)

ETSI TS 123060 V 13.5.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 13.5.0 Release 13)

ETSI TS 123108 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile radio interface layer 3 specification, core network protocols – Stage 2 (3GPP TS 23.108 version 13.0.0 Release 13)

ETSI TS 123122 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 13.3.0 Release 13)

ETSI TS 123139 V 12.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP system – fixed broadband access network interworking – Stage 2 (3GPP TS 23.139 version 12.3.0 Release 12)

ETSI TS 123153 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Out of band transcoder control – Stage 2 (3GPP TS 23.153 version 13.0.0 Release 13)

ETSI TS 123167 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) emergency sessions (3GPP TS 23.167 version 13.1.0 Release 13)

ETSI TS 123203 V 12.11.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control architecture (3GPP TS 23.203 version 12.11.0 Release 12)

ETSI TS 123203 V 13.6.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control architecture (3GPP TS 23.203 version 13.6.0 Release 13)

ETSI TS 123216 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Single Radio Voice Call Continuity (SRVCC) – Stage 2 (3GPP TS 23.216 version 13.1.0 Release 13)

ETSI TS 123218 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) session handling – IM call model – Stage 2 (3GPP TS 23.218 version 13.0.0 Release 13)

ETSI TS 123221 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architectural requirements (3GPP TS 23.221 version 13.0.0 Release 13)

ETSI TS 123228 V 13.4.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Stage 2 (3GPP TS 23.228 version 13.4.0 Release 13)

ETSI TS 123236 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes (3GPP TS 23.236 version 13.0.0 Release 13)

ETSI TS 123237 V 10.13.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Service Continuity – Stage 2 (3GPP TS 23.237 version 10.13.0 Release 10)

ETSI TS 123237 V 11.11.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Service Continuity – Stage 2 (3GPP TS 23.237 version 11.11.0 Release 11)

ETSI TS 123237 V 12.10.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Service Continuity – Stage 2 (3GPP TS 23.237 version 12.10.0 Release 12)

ETSI TS 123237 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Service Continuity – Stage 2 (3GPP TS 23.237 version 13.1.0 Release 13)

ETSI TS 123246 V 13.3.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Architecture and functional description (3GPP TS 23.246 version 13.3.0 Release 13)

ETSI TS 123251 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Network sharing – Architecture and functional description (3GPP TS 23.251 version 13.1.0 Release 13)

ETSI TS 123259 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Personal Network Management (PNM) – Procedures and information flows – Stage 2 (3GPP TS 23.259 version 13.0.0 Release 13)

ETSI TS 123271 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Functional stage 2 description of Location Services (LCS) (3GPP TS 23.271 version 13.0.0 Release 13)

ETSI TS 123272 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Circuit Switched (CS) fallback in Evolved Packet System (EPS) – Stage 2 (3GPP TS 23.272 version 13.2.0 Release 13)

ETSI TS 123292 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) centralized services – Stage 2 (3GPP TS 23.292 version 13.2.0 Release 13)

ETSI TS 123303 V 12.7.0 : 2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based services (ProSe) – Stage 2 (3GPP TS 23.303 version 12.7.0 Release 12)

ETSI TS 123303 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based services (ProSe) – Stage 2 (3GPP TS 23.303 version 13.2.0 Release 13)

ETSI TS 123333 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface: Procedures descriptions (3GPP TS 23.333 version 13.0.0 Release 13)

ETSI TS 123401 V 13.5.0:2016-03

LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 13.5.0 Release 13)

ETSI TS 123402 V 12.9.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 12.9.0 Release 12)

ETSI TS 123402 V 13.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 13.4.0 Release 13)

ETSI TS 123468 V 12.7.0:2016-03

LTE – Group Communication System Enablers for LTE (GCSE LTE) – Stage 2 (3GPP TS 23.468 version 12.7.0 Release 12)

ETSI TS 123468 V 13.3.0:2016-03

LTE – Group Communication System Enablers for LTE (GCSE LTE) – Stage 2 3GPP TS 23.468 version 13.3.0 Release 13

ETSI TS 123682 V 13.4.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 version 13.4.0 Release 13)

ETSI TS 124002 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – GSM – UMTS Public Land Mobile Network (PLMN) Access Reference Configuration (3GPP TS 24.002 version 13.0.0 Release 13)

ETSI TS 124007 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface signalling layer 3 – General Aspects (3GPP TS 24.007 version 13.0.0 Release 13)

ETSI TS 124011 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (3GPP TS 24.011 version 13.0.0 Release 13)

ETSI TS 124109 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Bootstrapping interface (Ub) and network application function interface (Ua) – Protocol details (3GPP TS 24.109 version 13.0.0 Release 13)

ETSI TS 124139 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP system – fixed broadband access network interworking – Stage 3 (3GPP TS 24.139 version 13.0.0 Release 13)

ETSI TS 124141 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Presence service using the IP Multimedia (IM) Core Network (CN) subsystem – Stage 3 (3GPP TS 24.141 version 13.0.0 Release 13)

ETSI TS 124147 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem – Stage 3 (3GPP TS 24.147 version 13.0.0 Release 13)

ETSI TS 124167 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP IMS Management Object (MO) – Stage 3 (3GPP TS 24.167 version 13.0.0 Release 13)

ETSI TS 124173 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – IMS Multimedia telephony communication service and supplementary services – Stage 3 (3GPP TS 24.173 version 13.0.0 Release 13)

ETSI TS 124182 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Customized Alerting Tones (CAT) – Protocol specification (3GPP TS 24.182 version 13.1.0 Release 13)

ETSI TS 124244 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Wireless LAN control plane protocol for trusted WLAN access to EPC – Stage 3 (3GPP TS 24.244 version 13.1.0 Release 13)

ETSI TS 124259 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Personal Network Management (PNM) – Stage 3 (3GPP TS 24.259 version 13.0.0 Release 13)

ETSI TS 124292 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 13.1.0 Release 13)

ETSI TS 124322 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Tunnelling of IP Multimedia Subsystem (IMS) services over restrictive access networks – Stage 3 (3GPP TS 24.322 version 13.0.0 Release 13)

ETSI TS 124368 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access Stratum (NAS) configuration Management Object (MO) (3GPP TS 24.368 version 13.2.0 Release 13)

ETSI TS 124390 V 12.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS – Stage 3 (3GPP TS 24.390 version 12.4.0 Release 12)

ETSI TS 124525 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Business trunking – Architecture and functional description (3GPP TS 24.525 version 13.0.0 Release 13)

ETSI TS 124604 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 13.3.0 Release 13)

ETSI TS 124607 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.607 version 13.3.0 Release 13)

ETSI TS 124610 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.610 version 13.1.0 Release 13)

ETSI TS 124611 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.611 version 13.1.0 Release 13)

ETSI TS 124615 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol Specification (3GPP TS 24.615 version 13.0.0 Release 13)

ETSI TS 124628 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.628 version 13.1.0 Release 13)

ETSI TS 125133 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 13.0.0 Release 13)

ETSI TS 125211 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Physical channels and mapping of transport channels onto physical channels (FDD) (3GPP TS 25.211 version 13.0.0 Release 13)

ETSI TS 125212 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Multiplexing and channel coding (FDD) (3GPP TS 25.212 version 13.0.0 Release 13)

ETSI TS 125331 V 11.15.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 11.15.0 Release 11)

ETSI TS 125331 V 12.8.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 12.8.0 Release 12)

ETSI TS 125331 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 13.1.0 Release 13)

ETSI TS 126234 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Protocols and codecs (3GPP TS 26.234 version 13.0.0 Release 13)

ETSI TR 126946 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) user service guidelines (3GPP TR 26.946 version 13.0.0 Release 13)

ETSI TS 127007 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – AT command set for User Equipment (UE) (3GPP TS 27.007 version 13.3.0 Release 13)

ETSI TS 128627 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Requirements (3GPP TS 28.627 version 13.1.0 Release 13)

ETSI TS 128628 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.628 version 13.2.0 Release 13)

ETSI TS 129002 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 13.2.0 Release 13)

ETSI TS 129010 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Information element mapping between Mobile Station – Base Station System (MS – BSS) and Base Station System – Mobile-services Switching Centre (BSS – MSC) – Signalling Procedures and the Mobile Application Part (MAP) (3GPP TS 29.010 version 13.0.0 Release 13)

ETSI TS 129018 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Serving GPRS Support Node (SGSN) – Visitors Location Register (VLR) – Gs interface layer 3 specification (3GPP TS 29.018 version 13.2.0 Release 13)

ETSI TS 129060 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 13.3.0 Release 13)

ETSI TS 129061 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 13.2.0 Release 13)

ETSI TS 129118 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Mobility Management Entity (MME) – Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 13.2.0 Release 13)

ETSI TS 129162 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IM CN subsystem and IP networks (3GPP TS 29.162 version 13.1.0 Release 13)

ETSI TS 129168 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Cell Broadcast Centre interfaces with the Evolved Packet Core – Stage 3 (3GPP TS 29.168 version 13.2.0 Release 13)

ETSI TS 129171 V 13.1.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – LCS Application Protocol (LCS-AP) between the

Mobile Management Entity (MME) and Evolved Serving Mobile Location Centre (E-SMLC) – SLs interface (3GPP TS 29.171 version 13.1.0 Release 13)

ETSI TS 129228 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 13.0.0 Release 13)

ETSI TS 129229 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Cx and Dx interfaces based on the Diameter protocol – Protocol details (3GPP TS 29.229 version 13.0.0 Release 13)

ETSI TS 129230 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 13.3.0 Release 13)

ETSI TS 129232 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Media Gateway Controller (MGC) – Media Gateway (MGW) interface – Stage 3 (3GPP TS 29.232 version 13.0.0 Release 13)

ETSI TS 129238 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interconnection Border Control Functions (IBCF) – Transition Gateway (TrGW) interface, Ix interface – Stage 3 (3GPP TS 29.238 version 13.0.0 Release 13)

ETSI TS 129272 V 13.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 13.4.0 Release 13)

ETSI TS 129273 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 13.2.0 Release 13)

ETSI TS 129274 V 13.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 13.4.0 Release 13)

ETSI TS 129275 V 13.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols – Stage 3 (3GPP TS 29.275 version 13.4.0 Release 13)

ETSI TS 129281 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – General Packet Radio System (GPRS) Tunnelling Protocol User Plane (GTPv1-U) (3GPP TS 29.281 version 13.0.0 Release 13)

ETSI TS 129303 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Domain Name System Procedures – Stage 3 (3GPP TS 29.303 version 13.2.0 Release 13)

ETSI TS 129328 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Sh interface – Signalling flows and message contents (3GPP TS 29.328 version 13.3.0 Release 13)

ETSI TS 129329 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Sh interface based on the Diameter protocol – Protocol details (3GPP TS 29.329 version 13.0.0 Release 13)

ETSI TS 129332 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Media Gateway Control Function (MGCF) – IM Media Gateway – Mn interface (3GPP TS 29.332 version 13.0.0 Release 13)

ETSI TS 129333 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface – Stage 3 (3GPP TS 29.333 version 13.0.0 Release 13)

ETSI TS 129334 V 13.3.0:2016-03

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IMS Application Level Gateway (IMS-ALG) – IMS Access Gateway (IMS-AGW) – Iq Interface – Stage 3 (3GPP TS 29.334 version 13.3.0 Release 13)

ETSI TS 129336 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications (3GPP TS 29.336 version 13.2.0 Release 13)

ETSI TS 129337 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Diameter-based T4 Interface for communications with packet data networks and applications (3GPP TS 29.337 version 13.0.0 Release 13)

ETSI TS 129344 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) function to Home Subscriber Server (HSS) aspects – Stage 3 (3GPP TS 29.344 version 13.0.0 Release 13)

ETSI TS 129345 V 12.4.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Inter-Proximity-services (Prose) function signalling aspects – Stage 3 (3GPP TS 29.345 version 12.4.0 Release 12)

ETSI TS 129345 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Inter-Proximity-services (Prose) function signalling aspects – Stage 3 (3GPP TS 29.345 version 13.0.0 Release 13)

ETSI TS 129368 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 version 13.1.0 Release 13)

ETSI TS 131103 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the IP Multimedia Services Identity Module (ISIM) application (3GPP TS 31.103 version 13.0.0 Release 13)

ETSI TS 132273 V 13.2.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Multimedia Broadcast and Multicast Service (MBMS) charging (3GPP TS 32.273 version 13.2.0 Release 13)

ETSI TS 132297 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) file format and transfer (3GPP TS 32.297 version 13.0.0 Release 13)

ETSI TS 132401 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Performance Management (PM) – Concept and requirements (3GPP TS 32.401 version 13.0.0 Release 13)

ETSI TS 132421 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace concepts and requirements (3GPP TS 32.421 version 13.0.0 Release 13)

ETSI TS 132422 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace control and configuration management (3GPP TS 32.422 version 13.0.0 Release 13)

ETSI TS 132425 V 13.3.0:2016-03

LTE – Telecommunication management – Performance Management (PM) – Performance measurements Evolved Universal Terrestrial Radio Access Network (E-UTRAN) 3GPP TS 32.425 version 13.3.0 Release 13

ETSI TS 132441 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Requirements (3GPP TS 32.441 version 13.0.0 Release 13)

ETSI TS 132442 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.442 version 13.0.0 Release 13)

ETSI TS 132446 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.446 version 13.0.0 Release 13)

ETSI TS 132453 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Performance Management (PM) – Performance measurements Home enhanced Node B (HeNB) Subsystem (HeNS) (3GPP TS 32.453 version 13.0.0 Release 13)

ETSI TS 132591 V 13.0.0:2016-03

LTE – Telecommunication management – Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – Concepts and requirements for Type 1 interface HeNB to HeNB Management System (HeMS) 3GPP TS 32.591 version 13.0.0 Release 13

ETSI TS 132592 V 13.0.0:2016-03

LTE – Telecommunication management – Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P) – Information model for Type 1 interface HeNB to HeNB Management System (HeMS) 3GPP TS 32.592 version 13.0.0 Release 13

ETSI TS 133187 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Security aspects of Machine-Type Communications (MTC) and other mobile data applications communications enhancements (3GPP TS 33.187 version 13.0.0 Release 13)

ETSI TS 133402 V 13.0.0:2016-03

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP System Architecture Evolution (SAE) – Security aspects of non-3GPP accesses (3GPP TS 33.402 version 13.0.0 Release 13)

ETSI TS 134123-2 V 12.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 2: Implementation conformance statement (ICS) proforma specification (3GPP TS 34.123-2 version 12.2.0 Release 12)

### **33.070.99**

### **Ostale pokretne službe**

#### **Europska normizacija**

**ETSI**

ETSI TR 133969 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Study on security aspects of Public Warning System (PWS) (3GPP TR 33.969 version 13.0.0 Release 13)

ETSI TR 145926 V 13.0.0:2016-02

Digital cellular telecommunications system (Phase 2+) (GSM) – Solutions for for GSM/EDGE BTS Energy Saving (3GPP TR 45.926 version 13.0.0 Release 13)

ETSI TS 122346 V 13.0.0 : 2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Isolated Evolved Universal Terrestrial Radio Access Network (E-UTRAN) operation for public safety – Stage 1 (3GPP TS 22.346 version 13.0.0 Release 13)

ETSI TS 123161 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Network-Based IP Flow Mobility (NBIFOM) – Stage 2 (3GPP TS 23.161 version 13.1.0 Release 13)

ETSI TS 124103 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Telepresence using the IP Multimedia (IM) Core Network (CN) Subsystem (IMS) – Stage 3 (3GPP TS 24.103 version 13.0.0 Release 13)

ETSI TS 124105 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Application specific Congestion control for Data Communication (ACDC) Management Object (MO) (3GPP TS 24.105 version 13.0.0 Release 13)

ETSI TS 124371 V 13.2.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Web Real-Time Communications (WebRTC) access to the IP Multimedia (IM) Core Network (CN) subsystem (IMS) – Stage 3 – Protocol specification (3GPP TS 24.371 version 13.2.0 Release 13)

ETSI TR 126922 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Video telephony robustness improvements extensions – Performance evaluation (3GPP TR 26.922 version 13.0.0 Release 13)

ETSI TS 129405 V 13.1.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Nq and Nq' Application Protocol (Nq-AP) – Stage 3 (3GPP TS 29.405 version 13.1.0 Release 13)

ETSI TR 131901 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Review of dedicated 3GPP UICC features (Red UCe) (3GPP TR 31.901 version 13.0.0 Release 13)

ETSI TR 133995 V 13.0.0:2016-03

Universal Mobile Telecommunications System (UMTS) – LTE – Study on Security aspects of integration of Single Sign-On (SSO) frameworks with 3GPP operator-controlled resources and mechanisms (3GPP TR 33.995 version 13.0.0 Release 13)

### **33.100.01                    Elektromagnetska kompatibilnost općenito**

#### **Europska normizacija**

**CENELEC**

EN 301843-1 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 1: Common technical requirements

EN 301843-2 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 2: Specific conditions for VHF radiotelephone transmitters and receivers

EN 301843-4 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 4: Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers

EN 301843-5 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 5: Specific conditions for MF/HF radiotelephone transmitters and receivers

EN 301843-6 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 6: Specific conditions for Earth Stations on board Vessels operating in frequency bands above 3 GHz

#### **Međunarodna normizacija**

**IEC**

IEC/TR 61000-1-7:2016-02

Electromagnetic compatibility (EMC) – Part 1-7: General – Power factor in single-phase systems under non-sinusoidal conditions

### **33.100.10                    Zračenje**

#### **Europska normizacija**

**CENELEC**

EN 301688 V 1.2.1:2016-03

Technical characteristics and methods of measurement for fixed and portable VHF equipment operating on 121,5 MHz and 123,1 MHz

EN 301843-1 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 1: Common technical requirements

EN 301843-2 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 2: Specific conditions for VHF radiotelephone transmitters and receivers

EN 301843-4 V 2.1.1:2016-03

ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services – Harmonised Standard covering the essential requirements of article 3.1b of the Directive 2014/53/EU – Part 4: Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers

EN 302561 V 2.1.1:2016-03

Land Mobile Service – Radio equipment using constant or non-constant envelope modulation operating in a channel bandwidth of 25 kHz, 50 kHz, 100 kHz or 150 kHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

## **ETSI**

ETSI TS 102361-1 V 2.4.1:2016-02

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 1: DMR Air Interface (AI) protocol

ETSI TS 102361-2 V 2.3.1:2016-02

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 2: DMR voice and generic services and facilities

ETSI TS 102361-4 V 1.8.1:2016-02

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 4: DMR trunking protocol

ETSI TS 102576 V 2.1.1:2016-02

Radio access network equipment specification – Mobile Communication On Board Aircraft (MCOBA) systems – Operational requirements and methodology for showing conformance

ETSI TR 103365 V 1.1.1:2016-02

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Time Domain Based Peak Power Measurement for UWB Devices

## **33.100.20**

### **Otpornost**

#### **Europska normizacija**

**CENELEC**

EN 55020/A12:2016-02

Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement

EN 61000-4-13/A2:2016-03

Electromagnetic compatibility (EMC) – Part 4-13: Testing and measurement techniques – Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests (IEC 61000-4-13:2002/A2:2015)

EN 61000-4-16:2016-03

Electromagnetic compatibility (EMC) – Part 4-16: Testing and measurement techniques – Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz (IEC 61000-4-16:2015)

### **33.120.10 Koaksijalni kabeli. Valovodi**

#### **Europska normizacija CENELEC**

EN 62153-4-7:2016-03

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 62153-4-7:2015)

#### **Međunarodna normizacija IEC**

IEC 61196-10 Corrigendum 1:2016-02

Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric; Corrigendum 1

IEC 61196-1-209:2016-03

Coaxial communication cables – Part 1-209: Environmental test methods – Thermal cycling

IEC 61196-1-215:2016-03

Coaxial communication cables – Part 1-215: Environmental test methods – High temperature cable ageing

IEC/TR 62901:2016-03

Guidance for the selection of drop cables

### **33.120.30 RF konektori**

#### **Europska normizacija CENELEC**

EN 61169-1/AC:2016-02

Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods (IEC 61169-1:2013/COR1:2016)

EN 61169-53:2016-01

Radio-frequency connectors – Part 53: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 16 mm with screw lock – Characteristic impedance 50 Ω (Type S7-16) (IEC 61169-53:2015)

#### **Međunarodna normizacija IEC**

IEC 60159:1964-01

Dimensions of the mating parts of radio-frequency connectors

IEC 60159 Corrigendum:1971-02

Dimensions of the mating parts of radio-frequency connectors; Corrigendum

IEC 61169-1 Corrigendum 1:2016-02

Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods, Corrigendum 1

IEC 61196-10 Corrigendum 1:2016-02

Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric; Corrigendum 1

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

#### **Europska normizacija CENELEC**

EN 62087-1:2016-02

Audio, video, and related equipment – Determination of power consumption – Part 1: General (IEC 62087-1:2015)

EN 62087-3:2016-02

Audio, video, and related equipment – Determination of power consumption – Part 3: Television sets (IEC 62087-3:2015)

EN 62087-4:2016-02

Audio, video and related equipment – Determination of power consumption – Part 4: Video recording equipment (IEC 62087-4:2015)

EN 62087-5:2016-02

Audio, video and related equipment – Determination of power consumption – Part 5: Set top boxes (STB) (IEC 62087-5:2015)

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

#### **Europska normizacija CENELEC**

EN 55020/A12:2016-02

Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement

EN 300468 V 1.15.1:2016-03

Digital Video Broadcasting (DVB) – Specification for Service Information (SI) in DVB systems

### **33.160.30 Audiosustavi**

#### **Međunarodna normizacija IEC**

IEC 62760:2016-02

Audio reproduction method for normalized loudness level

IEC 60958-4-1:2016-03

Digital audio interface – Part 4-1: Professional applications – Audio content

IEC 60958-4-2:2016-03

Digital audio interface – Part 4-2: Professional applications – Metadata and subcode

IEC 60958-4-4:2016-03

Digital audio interface – Part 4-4: Professional applications – Physical and electrical parameters

**33.160.50** Pribor

**Međunarodna normizacija**  
IEC

IEC 62777:2016-02

Quality evaluation method for the sound field of directional loudspeaker array systems

**33.160.99** Ostala audiooprema, videooprema i audiovizualna oprema

**Europska normizacija**  
CENELEC

EN 62665:2016-03

Multimedia systems and equipment – Multimedia e-publishing and e-books technologies – Texture map for auditory presentation of printed texts (IEC 62665:2015)

**33.170** Televizijski i radijski prijenos

**Europska normizacija**  
ETSI

ETSI TS 102349 V 4.2.1:2016-03

Digital Radio Mondiale (DRM) – Receiver Status and Control Interface (RSCI)

ETSI TS 102773 V 1.4.1:2016-03

Digital Video Broadcasting (DVB) – Modulator Interface (T2-MI) for a second generation digital terrestrial television broadcasting system (DVB-T2)

ETSI TS 102820 V 4.1.1:2016-03

Digital Radio Mondiale (DRM) – Multiplex Distribution Interface (MDI)

ETSI TS 102822-3-1 V 1.9.2:2016-03

Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ('TV-Anytime') – Part 3: Metadata – Sub-part 1: Phase 1 – Metadata schemas

**33.180.01** Svjetlovodni sustavi općenito

**Međunarodna normizacija**  
IEC

IEC/TR 61282-9:2016-03

Fibre optic communication system design guides – Part 9: Guidance on polarization mode dispersion measurements and theory

IEC/TR 62901:2016-03

Guidance for the selection of drop cables

### **33.180.10 Svetlovodna vlakna i kabeli**

#### **Europska normizacija CENELEC**

EN 60793-2-10:2016-02

Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibre (IEC 60793-2-10:2015)

EN 60793-2-20:2016-02

Optical fibres – Part 2-20: Product specifications – Sectional specification for category A2 multimode fibres (IEC 60793-2-20:2015)

EN 60793-2-40:2016-02

Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres (IEC 60793-2-40:2015)

EN 60793-2-50:2016-02

Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres (IEC 60793-2-50:2015)

EN 60794-1-1:2016-02

Optical fibre cables – Part 1-1: Generic specification – General (IEC 60794-1-1:2015)

EN 60794-3-21:2016-02

Optical fibre cables – Part 3-21: Outdoor cables – Product specification for optical self-supporting aerial telecommunication cables for use in premises cabling (IEC 60794-3-21:2015)

EN 60793-1-20/AC:2016-03

Optical fibres – Part 1-20: Measurement methods and test procedures – Fibre geometry (IEC 60793-1-20:2014/COR1:2016)

#### **Međunarodna normizacija IEC**

IEC 60793-1-20 Corrigendum 1:2016-03

Optical fibres – Part 1-20: Measurement methods and test procedures – Fibre geometry; Corrigendum 1

### **33.180.20 Svetlovodni vezne naprave**

#### **Europska normizacija CENELEC**

EN 61753-382-2:2016-02

Fibre optic interconnecting devices and passive components – Performance standard – Part 382-2: Non-connectorized single-mode bidirectional G-PON-NGA WWDM devices for category C – Controlled environment (IEC 61753-382-2:2015)

EN 61754-4-100:2016-02

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 4-100: Type SC connector family – Simplified receptacle SC-PC connector interfaces (IEC 61754-4-100:2015)

EN 62077:2016-02

Fibre optic interconnecting devices and passive components – Fibre optic circulators – Generic specification (IEC 62077:2015)

EN 61754-6-100:2016-03

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6-100: Type MU connector family – Simplified receptacle MU-PC connector interfaces (IEC 61754-6-100:2015)

EN 61755-3-32:2016-03

Fibre optic interconnecting devices and passive components – Connector optical interfaces – Part 3-32: Connector parameters of non-dispersion shifted single mode physically contacting fibres – Angled thermoset epoxy rectangular ferrules (IEC 61755-3-32:2015)

### **33.180.30 Optička pojačala**

**Međunarodna normizacija**

**IEC**

IEC 61291-2:2016-02

Optical amplifiers – Part 2: Single channel applications – Performance specification template

IEC 62343-1:2016-02

Dynamic modules – Part 1: Performance standards – General conditions

IEC 62572-3:2016-02

Fibre optic active components and devices – Reliability standards – Part 3: Laser modules used for telecommunication

IEC 62343-4-1:2016-03

Dynamic modules – Part 4-1: Software and hardware interface – 1 x 9 wavelength selective switch

### **33.180.99 Ostala svjetlovodna oprema**

**Međunarodna normizacija**

**IEC**

IEC 61757-1-1:2016-02

Fibre optic sensors – Part 1-1: Strain measurement – Strain sensors based on fibre Bragg gratings

### **33.200 Daljinsko upravljanje. Daljinsko mjerjenje**

**Europska normizacija**

**CENELEC**

EN 60870-5-101/A1:2016-03

Telecontrol equipment and systems – Part 5-101: Transmission protocols – Companion standard for basic telecontrol tasks (IEC 60870-5-101:2003/A1:2015)

**ETSI**

ETSI TS 118101 V 1.1.0:2016-03

oneM2M – Functional Architecture (oneM2M TS-0001 version 1.13.1 Release 1)

ETSI TS 118103 V 1.1.0:2016-03

oneM2M – Security solutions (oneM2M TS-0003 version 1.4.2 Release 1)

ETSI TS 118104 V 1.1.0:2016-03

oneM2M – Service Layer Core Protocol Specification (oneM2M TS-0004 version 1.6.0 Release 1)

ETSI TS 118105 V 1.1.0:2016-03  
oneM2M – Management Enablement (OMA) (oneM2M TS-0005 version 1.4.1 Release 1)

ETSI TS 118106 V 1.1.0:2016-03  
oneM2M – Management Enablement (BBF) (oneM2M TS-0006 version 1.1.4 Release 1)

ETSI TS 118108 V 1.1.0:2016-03  
oneM2M – CoAP Protocol Binding (oneM2M TS-0008 version 1.3.2 Release 1)

ETSI TS 118109 V 1.1.0:2016-03  
oneM2M – HTTP Protocol Binding (oneM2M TS-0009 version 1.5.1 Release 1)

ETSI TS 118110 V 1.1.0:2016-03  
oneM2M – MQTT Protocol Binding (oneM2M TS-0010 version 1.5.1 Release 1)

ETSI TS 118113 V 1.0.0:2016-03  
oneM2M – Interoperability Testing (oneM2M TS-0013 version 1.0.0 Release 1)

ETSI TR 118525 V 1.0.0:2016-03  
oneM2M – Application Developer Guide (oneM2M version 1.0.0 Release 1)

### **35.020                    Informacijska tehnologija (IT) općenito**

#### **Europska normizacija CENELEC**

EN 16234-1:2016-04  
e-Competence Framework (e-CF) – A common European Framework for ICT Professionals in all industry sectors – Part 1: Framework

EN 50600-2-5:2016-03  
Information technology – Data centre facilities and infrastructures – Part 2-5: Security systems

EN 50600-3-1:2016-03  
Information technology – Data centre facilities and infrastructures – Part 3-1: Management and operational information

#### **Međunarodna normizacija ISO**

ISO/IEC 30134-1:2016-03  
Information technology – Data centres – Key performance indicators – Part 1: Overview and general requirements

### **35.040                    Skupovi znakova i kodiranje informacija**

#### **Europska normizacija ETSI**

ETSI TS 101052 V 2.1.1:2016-02  
Rules for the management of the TETRA standard authentication and key management algorithm set TAA1

ETSI TS 101053-1 V 2.1.1:2016-02  
Rules for the management of the TETRA standard encryption algorithms – Part 1: TEA1

ETSI TS 101053-3 V 2.1.1:2016-02

Rules for the management of the TETRA standard encryption algorithms – Part 3: TEA3

ETSI TS 101053-4 V 2.1.1:2016-02

Rules for the management of the TETRA standard encryption algorithms – Part 4: TEA4

## **Međunarodna normizacija**

### **ISO**

ISO/IEC 14651:2016-02

Information technology – International string ordering and comparison – Method for comparing character strings and description of the common template tailorable ordering

ISO/IEC 15418:2016-03

Information technology – Automatic identification and data capture techniques – GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance

ISO/IEC 19762:2016-02

Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary

ISO/IEC 23001-7:2016-02

Information technology – MPEG systems technologies – Part 7: Common encryption in ISO base media file format files

ISO/IEC 27000:2016-02

Information technology – Security techniques – Information security management systems – Overview and vocabulary

ISO/IEC 14888-3:2016-03

Information technology – Security techniques – Digital signatures with appendix – Part 3: Discrete logarithm based mechanisms

ISO/IEC TR 19566-1:2016-03

Information technology – JPEG Systems – Part 1: Packaging of information using codestreams and file formats

ISO/IEC 20648:2016-03

Information technology – TLS specification for storage systems

ISO/IEC 23005-2:2016-03

Information technology – Media context and control – Part 2: Control information

ISO/IEC 23005-4:2016-03

Information technology – Media context and control – Part 4: Virtual world object characteristics

ISO/IEC 23005-5:2016-03

Information technology – Media context and control – Part 5: Data formats for interaction devices

ISO/IEC 23005-6:2016-03

Information technology – Media context and control – Part 6: Common types and tools

ISO/IEC 23008-5 AMD 1:2016-04

Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 5: Reference software for high efficiency video coding – Amendment 1: Reference software for format range extensions profiles

**35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji**

**Međunarodna normizacija  
ISO**

ISO/IEC TR 10182:2016-03

Information technology – Programming languages, their environments and system software interfaces – Guidelines for language bindings

**35.100.70 Sloj primjene**

**Međunarodna normizacija  
ISO**

ISO/IEC 16512-1:2016-04

Information technology – Relayed Multicast Control Protocol (RMCP) – Framework

ISO/IEC 16512-2:2016-04

Information technology – Relayed multicast protocol: Specification for simplex group applications

**IEC**

IEC 62056-5-3:2016-03

Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer

**35.110 Umrežavanje**

**Europska normizacija  
CENELEC**

EN 50600-2-5:2016-03

Information technology – Data centre facilities and infrastructures – Part 2-5: Security systems

EN 50600-3-1:2016-03

Information technology – Data centre facilities and infrastructures – Part 3-1: Management and operational information

**ETSI**

ETSI SR 003381 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Identification of Cloud user needs

ETSI SR 003382 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Cloud Computing Standards and Open Source – Optimizing the relationship between standards and Open Source in Cloud Computing

ETSI SR 003391 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Interoperability and Security in Cloud Computing

ETSI SR 003392 V 2.1.1:2016-02

Cloud Standards Coordination Phase 2 – Cloud Computing Standards Maturity Assessment – A new snapshot of Cloud Computing Standards

ETSI GS NFV-EVE 004 V 1.1.1:2016-03

Network Functions Virtualisation (NFV) – Virtualisation Technologies – Report on the application of Different Virtualisation Technologies in the NFV Framework

## Međunarodna normizacija ISO

ISO/IEC/IEEE 8802-1X AMD 1:2016-02

# Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Part 1X: Port-based network access control – Amendment 1: MAC security key agreement protocol (MKA) extensions

ISO/IEC/IEEE 8802-1Q:2016-03

## Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 1Q: Bridges and bridged networks

ISO/IEC 13157-2:2016-04

## Information technology – Telecommunications and information exchange between systems – NFC Security – Part 2: NFC-SEC cryptography standard using ECDH and AES

ISO/IEC 13157-3:2016-04

ISO/IEC 15693-3:2018  
Information technology – Telecommunications and information exchange between systems – NFC  
Security – Part 3: NFC-SEC cryptography standard using ECDH-256 and AES-GCM

IEC

IEC 62439-1 AMD 2:2016-02

IEC 62-400-1:AMD 2:2010-02  
Industrial communication networks – High availability automation networks – Part 1: General concepts and calculation methods; Amendment 2

IEC 62439-1 Edition 1.2:2016-02

IEC 62-400 : Edition 1.2:2013-02  
Industrial communication networks – High availability automation networks – Part 1: General concepts and calculation methods

35.160

Mikroprocesorski sustavi

Europska normizacija

Europcar  
CFNFI FC

EN 50600-2-5:2016-03

Information technology – Data centre facilities and infrastructures – Part 2-5: Security systems

EN 50600-3-1:2016-03

EN 30000-5-1:2010-05  
Information technology – Data centre facilities and infrastructures – Part 3-1: Management and operational information

## Međunarodna normizacija

IFC

IEC 62591-2016-03

IEC 62304:2019-08  
Industrial networks – Wireless communication network and communication profiles – WirelessHART™

35-180

Terminalna i druga vanjska oprema informacijske tehnologije

Europska normizacija

Euro  
GEN

EN ISO 9241-161:2016-03

EN ISO 3241-16:2016-05  
Ergonomics of human-system interaction – Part 161: Guidance on visual user-interface elements  
(ISO 9241-161:2016)

## Međunarodna normizacija ISO

ISO 9241-161:2016-02

Ergonomics of human-system interaction – Part 161: Guidance on visual user-interface elements

ISO/IEC 28360 Technical Corrigendum 1:2016-02

## Information technology – Office equipment – Determination of chemical emission rates from electronic equipment; Technical Corrigendum 1

## **35.200 Sučelna i spojna oprema**

# Međunarodna normizacija ISO

ISO/IEC 14543-3-11:2016-02

Information technology – Home electronic system (HES) architecture – Part 3-11: Frequency Modulated Wireless Short-Packet (FMWSP) protocol optimised for energy harvesting – Architecture and lower layer protocols

ISO/IEC 17760-102:2016-03

Information technology – AT Attachment – Part 102: ATA/ATAPI Command set – 2 (ACS-2)

**35.220.20 Magnetne naprave za pohranu podataka**

## **Međunarodna normizacija ISO**

ISO/IEC 20919:2016-04

Information technology – Linear Tape File System (LTFS) Format Specification

**35.240.15 Identifikacijske kartice i pripadajuće naprave**

## **Europska normizacija ETSI**

ETSI TS 103383 V 13.1.0:2016-02

Smart Cards – Embedded UICC – Requirements Specification (Release 13)

ETSI TS 102695-1 V 10.2.0:2016-03

Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 1: Terminal features (Release 10)

ETSI TS 102695-1 V 11.0.0:2016-03

Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 1: Terminal features (Release 11)

## Međunarodna normizacija ISO

ISO/IEC 14443-1:2016-03

## Identification cards – Contactless integrated circuit cards – Proximity cards – Part 1: Physical characteristics

ISO/IEC 30106-1:2016-03

Information technology – Object oriented BioAPI – Part 1: Architecture

ISO/IEC 30106-2:2016-03  
Information technology – Object oriented BioAPI – Part 2: Java implementation

ISO/IEC 30106-3:2016-03  
Information technology – Object oriented BioAPI – Part 3: C# implementation

### **35.240.30 Primjene IT-a u obavlješćivanju, dokumentaciji i izdavaštvu**

#### **Europska normizacija** **CENELEC**

- EN 319412-5 V 2.1.1:2016-02  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 5: QCStatements
- EN 62665:2016-03  
Multimedia systems and equipment – Multimedia e-publishing and e-books technologies – Texture map for auditory presentation of printed texts (IEC 62665:2015)
- EN 319421 V 1.1.1:2016-03  
Electronic Signatures and Infrastructures (ESI) – Policy and Security Requirements for Trust Service Providers issuing Time-Stamps
- EN 319422 V 1.1.1:2016-03  
Electronic Signatures and Infrastructures (ESI) – Time-stamping protocol and time-stamp token profiles

#### **Međunarodna normizacija** **ISO**

- ISO/IEC 40314:2016-03  
Information technology – Mathematical Markup Language (MathML) Version 3.0; 2nd Edition

#### **IEC**

- IEC 62605:2016-02  
Multimedia systems and equipment – Multimedia e-publishing and e-books – Interchange format for e-dictionaries

### **35.240.40 Primjene IT-a u bankarstvu**

#### **Međunarodna normizacija** **ISO**

- ISO 9564-4:2016-03  
Financial services – Personal Identification Number (PIN) management and security – Part 4: Requirements for PIN handling in eCommerce for Payment Transactions
- ISO 13491-1:2016-03  
Financial services – Secure cryptographic devices (retail) – Part 1: Concepts, requirements and evaluation methods
- ISO 13491-2:2016-03  
Financial services – Secure cryptographic devices (retail) – Part 2: Security compliance checklists for devices used in financial transactions

## **35.240.50**

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

### **Međunarodna normizacija ISO**

ISO 10303-21:2016-03

Industrial automation systems and integration – Product data representation and exchange – Part 21: Implementation methods: Clear text encoding of the exchange structure

ISO/ASTM 52915:2016-02

Specification for Additive Manufacturing File Format (AMF) Version 1.2

### **IEC**

IEC 61511-1:2016-02

Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements

IEC 62264-4:2015-12

Enterprise-control system integration – Part 4: Objects and attributes for manufacturing operations management integration

IEC 60050-351 AMD 1:2016-03

International Electrotechnical Vocabulary – Part 351: Control technology; Amendment 1

IEC 61987-12:2016-03

Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 12: Lists of properties (LOPs) for flow measuring equipment for electronic data exchange

IEC 61987-13:2016-03

Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 13: Lists of properties (LOP) for pressure measuring equipment for electronic data exchange

IEC 62439-2:2016-03

Industrial communication networks – High availability automation networks – Part 2: Media Redundancy Protocol (MRP)

IEC 62439-3:2016-03

Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)

IEC 62439-5:2016-03

Industrial communication networks – High availability automation networks – Part 5: Beacon Redundancy Protocol (BRP)

IEC 62591:2016-03

Industrial networks – Wireless communication network and communication profiles – WirelessHART™

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

### **Europska normizacija CEN/CENELEC**

EN 61375-2-3/AC:2016-01

Electronic railway equipment – Train communication network (TCN) – Part 2-3: TCN communication profile (IEC 61375-2-3:2015/COR1:2015)

EN ISO 17575-1:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 1: Charging (ISO 17575-1:2016)

EN ISO 17575-2:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 2: Communication and connection to the lower layers (ISO 17575-2:2016)

EN ISO 17575-3:2016-02

Electronic fee collection – Application interface definition for autonomous systems – Part 3: Context data (ISO 17575-3:2016)

### **ETSI**

ETSI TS 101556-2 V 1.1.1:2016-02

Intelligent Transport Systems (ITS) – Infrastructure to Vehicle Communication – Part 2: Communication system specification to support application requirements for Tyre Information System (TIS) and Tyre Pressure Gauge (TPG) interoperability

### **Međunarodna normizacija**

#### **ISO**

ISO 14296:2016-02

Intelligent transport systems – Extension of map database specifications for applications of cooperative ITS

ISO/IEC 19762:2016-02

Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary

ISO 24534-3:2016-04

Intelligent transport systems – Automatic vehicle and equipment identification – Electronic registration identification (ERI) for vehicles – Part 3: Vehicle data

## **35.240.70                    Primjene IT-a u znanosti**

### **Europska normizacija CEN**

EN ISO 19119:2016-02

Geographic information – Services (ISO 19119:2016)

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

### **Europska normizacija CEN/CENELEC**

EN 60601-2-33/AC:2016-03

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis  
(IEC 60601-2-33:2010/COR2:2016)

EN ISO 15225:2016-04

Medical devices – Quality management – Medical device nomenclature data structure  
(ISO 15225:2016)

EN ISO 16278:2016-03

Health informatics – Categorial structure for terminological systems of human anatomy  
(ISO 16278:2016)

### **Međunarodna normizacija ISO**

ISO 15225:2016-03

Medical devices – Quality management – Medical device nomenclature data structure

ISO 16278:2016-03

Health informatics – Categorial structure for terminological systems of human anatomy

ISO/HL7 16527:2016-04

Health informatics – HL7 Personal Health Record System Functional Model, Release 1 (PHRS FM)

### **IEC**

IEC 60601-2-33 Corrigendum 2:2016-02

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis; Corrigendum 2

IEC 60601-2-44 AMD 2:2016-03

Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography; Amendment 2

IEC 60601-2-44 Edition 3.2:2016-03

Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography

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

### **Europska normizacija CENELEC**

EN 319401 V 2.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – General Policy Requirements for Trust Service Providers

EN 319411-1 V 1.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 1: General requirements

EN 319411-2 V 2.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 2: Requirements for trust service providers issuing EU qualified certificates

EN 319412-1 V 1.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 1: Overview and common data structures

EN 319412-2 V 2.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 2: Certificate profile for certificates issued to natural persons

EN 319412-3 V 1.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 3: Certificate profile for certificates issued to legal persons

EN 319412-4 V 1.1.1:2016-02

Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 4: Certificate profile for web site certificates

EN 319421 V 1.1.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Policy and Security Requirements for Trust Service Providers issuing Time-Stamps

EN 319422 V 1.1.1:2016-03

Electronic Signatures and Infrastructures (ESI) – Time-stamping protocol and time-stamp token profiles

## **ETSI**

ETSI GS MEC 001 V 1.1.1:2016-03

Mobile Edge Computing (MEC) Terminology

## **Međunarodna normizacija**

**IEC**

ISO/IEC 14543-3-11:2016-02

Information technology – Home electronic system (HES) architecture – Part 3-11: Frequency Modulated Wireless Short-Packet (FMWSP) protocol optimised for energy harvesting – Architecture and lower layer protocols

**35.260**

**Uredski strojevi**

## **Međunarodna normizacija**

**ISO**

ISO/IEC 28360 Technical Corrigendum 1:2016-02

Information technology – Office equipment – Determination of chemical emission rates from electronic equipment; Technical Corrigendum 1

**37.020 Optička oprema**

**Međunarodna normizacija  
ISO**

ISO 14490-3:2016-02

Optics and photonics – Test methods for telescopic systems – Part 3: Test methods for telescopic sights

**37.040.99 Ostale norme koje se odnose na fotografiju**

**Međunarodna normizacija  
ISO**

ISO 22028-1:2016-03

Photography and graphic technology – Extended colour encodings for digital image storage, manipulation and interchange – Part 1: Architecture and requirements

**37.060.20 Kinematografski filmovi. Kazete**

**Međunarodna normizacija  
ISO**

ISO 12612:2016-03

Cinematography – Interchange of post-production sprocket-based materials

**37.100.01 Grafička tehnologija općenito**

**Međunarodna normizacija  
ISO**

ISO 5776:2016-04

Graphic technology – Symbols for text proof correction

ISO 16763:2016-03

Graphic technology – Post-press – Requirements for bound products

ISO 22028-1:2016-03

Photography and graphic technology – Extended colour encodings for digital image storage, manipulation and interchange – Part 1: Architecture and requirements

**39.040.10 Ručni i džepni satovi**

**Međunarodna normizacija  
ISO**

ISO 1413:2016-04

Horology – Shock-resistant wrist watches

ISO 3764:2016-03

Timekeeping instruments – Movements – Types, dimensions and nomenclature

## **43.020 Cestovna vozila općenito**

### **Međunarodna normizacija ISO**

ISO 24534-3:2016-04

Intelligent transport systems – Automatic vehicle and equipment identification – Electronic registration identification (ERI) for vehicles – Part 3: Vehicle data

## **43.040.10 Električna i elektronička oprema**

### **Europska normizacija CENELEC**

EN 50436-1/AC:2016-03

Alcohol interlocks – Test methods and performance requirements – Part 1: Instruments for drink-driving-offender programs

### **Međunarodna normizacija ISO**

ISO 13400-4:2016-03

Road vehicles – Diagnostic communication over Internet Protocol (DoIP) – Part 4: Ethernet-based high-speed data link connector

ISO 27145-4:2016-04

Road vehicles – Implementation of World-Wide Harmonized On-Board Diagnostics (WWH-OBD) communication requirements – Part 4: Connection between vehicle and test equipment

### **IEC**

IEC 62196-2:2016-02

Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories

## **43.040.65 Sustavi za laštenje i brisanje stakla**

### **Međunarodna normizacija ISO**

ISO 3917:2016-02

Road vehicles – Safety glazing materials – Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering

## **43.060.10 Blok motora i unutarnji sastavni dijelovi**

### **Međunarodna normizacija ISO**

ISO 6624-2:2016-02

Internal combustion engines – Piston rings – Part 2: Half keystone rings made of cast iron

ISO 6624-4:2016-02

Internal combustion engines – Piston rings – Part 4: Half keystone rings made of steel

**43.060.20                    Sustavi za komprimiranje i sustavi za dovod zraka i odvod ispušnih plinova**

**Međunarodna normizacija  
ISO**

ISO 12103-1:2016-03  
Road vehicles – Test contaminants for filter evaluation – Part 1: Arizona test dust

**43.060.40                    Sustavi goriva**

**Međunarodna normizacija  
ISO**

ISO 12103-1:2016-03  
Road vehicles – Test contaminants for filter evaluation – Part 1: Arizona test dust

ISO 15500-3 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 3: Check valve; Amendment 1

ISO 15500-4 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 4: Manual valve; Amendment 1

ISO 15500-5 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 5: Manual cylinder valve; Amendment 1

ISO 15500-6 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 6: Automatic valve; Amendment 1

ISO 15500-9 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 9: Pressure regulator; Amendment 1

ISO 15500-13 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 13: Pressure relief device (PRD); Amendment 1

ISO 15500-14 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 14: Excess flow valve; Amendment 1

ISO 15500-16 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 16: Rigid fuel line in stainless steel; Amendment 1

ISO 15500-17 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 17: Flexible fuel line; Amendment 1

ISO 15500-18 AMD 1:2016-04  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 18: Filter; Amendment 1

ISO 15500-19 AMD 1:2016-04

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 19: Fittings; Amendment 1

**43.120 Električna cestovna vozila**

**Međunarodna normizacija**

**IEC**

IEC 62196-2:2016-02

Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories

IEC 62752:2016-03

In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

**43.180 Oprema za dijagnostiku, održavanje i ispitivanje**

**Međunarodna normizacija**

**ISO**

ISO 13400-4:2016-03

Road vehicles – Diagnostic communication over Internet Protocol (DoIP) – Part 4: Ethernet-based high-speed data link connector

ISO 27145-4:2016-04

Road vehicles – Implementation of World-Wide Harmonized On-Board Diagnostics (WWH-OBD) communication requirements – Part 4: Connection between vehicle and test equipment

**45.060.01 Željeznička tračnička vozila općenito**

**Europska normizacija**

**CENELEC**

CEN/TR 16251:2016-02

Railway applications – Environmental conditions – Design guidance for rolling stock

EN 14363:2016-03

Railway applications – Testing and Simulation for the acceptance of running characteristics of railway vehicles – Running Behaviour and stationary tests

EN 50553/A1:2016-03

Railway applications – Requirements for running capability in case of fire on board of rolling stock

**Međunarodna normizacija**

**IEC**

IEC 61133:2016-02

Railway applications – Rolling stock – Testing of rolling stock on completion of construction and before entry into service

IEC 62847:2016-02

Railway applications – Rolling stock – Electrical connectors – Requirements and test methods

## **47.020.01 Opće norme koje se odnose na brodogradnju i pomorske konstrukcije**

### **Međunarodna normizacija IEC**

ISO/PAS 19891-1:2016-03

Ships and marine technology – Specifications for gas detectors intended for use on board ships – Part 1: Portable gas detectors for atmosphere testing of enclosed spaces

## **47.020.40 Oprema za dizanje i rukovanje teretom**

### **Međunarodna normizacija ISO**

ISO 7364:2016-04

Ships and marine technology – Deck machinery – Accommodation ladder winches

## **47.020.70 Oprema za navigaciju i upravljanje**

### **Europska normizacija CENELEC**

EN 300065 V 2.1.1:2016-03

Narrow-band direct-printing telegraph equipment for receiving meteorological or navigational information (NAVTEX) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU

### **Međunarodna normizacija IEC**

IEC 61162-450 AMD 1:2016-03

Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 450: Multiple talkers and multiple listeners – Ethernet interconnection; Amendment 1

IEC 61162-450 Edition 1.1:2016-03

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

## **47.060 Plovila za unutrašnji promet**

### **Međunarodna normizacija ISO**

ISO 18421:2016-03

Ships and marine technology – Inland navigation vessels – Lifebuoy housings

## **47.080 Mala plovila**

### **Europska normizacija CEN**

EN ISO 11592-1:2016-03

Small craft – Determination of maximum propulsion power rating using manoeuvring speed – Part 1: Craft with a length of hull less than 8 m (ISO 11592-1:2016)

EN ISO 16315:2016-04  
Small craft – Electric propulsion system (ISO 16315:2016)

**Međunarodna normizacija**  
**ISO**

ISO 11592-1:2016-02  
Small craft – Determination of maximum propulsion power rating using manoeuvring speed – Part 1: Craft with a length of hull less than 8 m

ISO 16315:2016-03  
Small craft – Electric propulsion system

**49.025.01 Materijali za zrakoplovne konstrukcije općenito**

**Europska normizacija**  
**CEN**

EN 4376:2016-03  
Aerospace series – Heat resisting alloy NiCr19Fe19Nb5Mo3 (2.4668) solution treated and precipitation treated – Bar and section, De ≤ 200 mm

**49.030.10 Vijčani navozi**

**Međunarodna normizacija**  
**ISO**

ISO 10959:2016-03  
Aerospace – MJ threads – Gauging

**49.030.20 Vijci i svorni vijci**

**Europska normizacija**  
**CEN**

EN 4072:2016-03  
Aerospace series – Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated – Classification: 1100 MPa (at ambient temperature) / 425 °C

EN 4073:2016-03  
Aerospace series – Screws, pan head, hexalobular recess, coarse tolerance shank, medium length thread, in alloy steel, cadmium plated – Classification: 1100 MPa (at ambient temperature) / 235 °C

EN 4128:2016-03  
Aerospace series – Bolts, normal hexagonal head, coarse tolerance shank, short thread, in heat resisting nickel base alloy, aluminium IVD coated – Classification: 1250 MPa (at ambient temperature) / 425 °C

EN 4138:2016-03  
Aerospace series – Screws, pan head, offset cruciform recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated – Classification: 1100 MPa (at ambient temperature) / 235 °C

EN 4162:2016-03

Aerospace series – Screws 100° countersunk normal head, offset cruciform recess, coarse tolerance normal shank, medium length thread, in alloy steel, cadmium plated – Classification: 1100 MPa (at ambient temperature)/235 °C

EN 4163:2016-03

Aerospace series – Screws 100° countersunk normal head, offset cruciform recess, coarse tolerance normal shank, long thread, in alloy steel, cadmium plated – Classification: 1100 MPa (at ambient temperature) / 235 °C

#### **Međunarodna normizacija**

**ISO**

ISO 9154:2016-02

Aerospace – Bolts, with MJ threads, made of heat-resistant nickel-based alloy, strength class 1 550 MPa – Procurement specification

ISO 12260:2016-02

Aerospace – Screws, pan head, internal offset cruciform ribbed or unribbed drive, stepped shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa – Dimensions

ISO 12261:2016-02

Aerospace – Screws, pan head, internal offset cruciform ribbed or unribbed drive, pitch diameter shank, long length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa – Dimensions

#### **49.030.30**

#### **Matrice**

#### **Međunarodna normizacija**

**ISO**

ISO 3209:2016-02

Aerospace – Nuts, anchor, self-locking, floating, two lug, with counterbore, with MJ threads, classifications: 1 100 MPa (at ambient temperature )/235 degrees C, 1 100 MPa (at ambient temperature )/315 degrees C and 1 100 MPa (at ambient temperature)/425 degrees C – Dimensions

ISO 9609:2016-02

Aerospace – Nuts, hexagonal, plain, reduced height, normal across flats, with MJ threads, classifications: 450 MPa (at ambient temperature) /120 degrees C, 450 MPa (at ambient temperature) /235 degrees C, 600 MPa (at ambient temperature) /425 degrees C, 900 MPa (at ambient temperature) /235 degrees C, 900 MPa (at ambient temperature) /315 degrees C, 900 MPa (at ambient temperature) /650 degrees C, 1 100 MPa (at ambient temperature) /235 degrees C, 1 100 MPa (at ambient temperature) /730 degrees C and 1 250 MPa (at ambient temperature)/600 degrees C – Dimensions

ISO 9618:2016-02

Aerospace – Nuts, hexagonal, slotted (castellated), reduced height, normal across flats, with MJ threads, classifications: 450 MPa (at ambient temperature)/120 degrees C, 450 MPa (at ambient temperature)/235 degrees C, 600 MPa (at ambient temperature)/425 degrees C, 900 MPa (at ambient temperature)/235 degrees C, 900 MPa (at ambient temperature)/315 degrees C, 900 MPa (at ambient temperature)/650 degrees C, 1 100 MPa (at ambient temperature)/235 degrees C, 1 100 MPa (at ambient temperature)/730 degrees C and 1 250 MPa (at ambient temperature)/600 degrees C – Dimensions

**49.030.60**                   **Zakovice**

**Međunarodna normizacija**  
**ISO**

ISO 12289:2016-03  
Aerospace – Rivets, solid, in corrosion-resisting steel – Procurement specification

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

**Europska normizacija**  
**CENELEC**

EN 4165-001/AC:2016-02  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 001: Technical specification

EN 4165-003:2016-03  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 003: Modules series 2 and series 3 – Product standard

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

**Europska normizacija**  
**CEN**

EN 6123:2016-03  
Aerospace series – Fitting end, 24° internal cone, external thread, flareless type – Extra fine thread pitch – Inch series – Design standard

**Međunarodna normizacija**  
**ISO**

ISO 8278:2016-03  
Aerospace series – Hydraulic, pressure compensated, variable delivery pumps – General requirements

ISO 9206:2016-03  
Aerospace series – Constant displacement hydraulic motors – General specifications

**49.140**                   **Svemirski sustavi i operacije**

**Međunarodna normizacija**  
**ISO**

ISO 17546:2016-03  
Space systems – Lithium ion battery for space vehicles – Design and verification requirements

ISO 27875 AMD 1:2016-03  
Space systems – Re-entry risk management for unmanned spacecraft and launch vehicle orbital stages; Amendment 1

**53.020.20 Dizalice**

**Međunarodna normizacija  
ISO**

ISO 8566-2:2016-02  
Cranes – Cabins and control stations – Part 2: Mobile cranes

ISO 9926-3:2016-02  
Cranes – Training of operators – Part 3: Tower cranes

**53.060 Industrijski prijevozni sustavi**

**Europska normizacija  
CEN**

EN ISO 3691-2:2016-02  
Industrial trucks – Safety requirements and verification – Part 2: Self-propelled variable-reach trucks  
(ISO 3691-2:2016)

**Međunarodna normizacija  
ISO**

ISO 10896-2:2016-02  
Rough-terrain trucks – Safety requirements and verification – Part 2: Slewing trucks

**53.100 Strojevi za zemljane radove**

**Međunarodna normizacija  
ISO**

ISO 9244 AMD 1:2016-03  
Earth-moving machinery – Machine safety labels – General principles; Amendment 1

**55.180.10 Kontejneri opće namjene**

**Međunarodna normizacija  
ISO**

ISO 668 AMD 1:2016-03  
Series 1 freight containers – Classification, dimensions and ratings; Amendment 1

ISO 668 AMD 2:2016-03  
Series 1 freight containers – Classification, dimensions and ratings; Amendment 2

**55.180.20 Palete opće namjene**

**Europska normizacija  
CEN**

EN ISO 8611-2/A1:2016-04  
Pallets for materials handling – Flat pallets – Part 2: Performance requirements and selection of tests  
(ISO 8611-2:2011/Amd 1:2016)

**Međunarodna normizacija  
ISO**

ISO 8611-2 AMD 1:2016-03

Pallets for materials handling – Flat pallets – Part 2: Performance requirements and selection of tests; Amendment 1

**59.060.10 Prirodna vlakna**

**Međunarodna normizacija  
ISO**

ISO 17751-1:2016-03

Textiles – Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends – Part 1: Light microscopy method

ISO 17751-2:2016-03

Textiles – Quantitative analysis of cashmere, wool, other specialty animal fibers and their blends – Part 2: Scanning electron microscopy method

**59.080.01 Tekstili općenito**

**Europska normizacija  
CEN**

EN ISO 17881-1:2016-02

Textiles – Determination of certain flame retardants – Part 1: Brominated flame retardants (ISO 17881-1:2016)

EN ISO 17881-2:2016-02

Textiles – Determination of certain flame retardants – Part 2: Phosphorus flame retardants (ISO 17881-2:2016)

**59.080.30 Tekstilni proizvodi**

**Europska normizacija  
CEN**

EN 16806-1:2016-03

Textiles and textile products – Textiles containing phase change materials (PCM) – Part 1: Determination of the heat storage and release capacity

**59.080.60 Tekstilne podne obloge**

**Međunarodna normizacija  
ISO**

ISO 4918:2016-03

Resilient, textile and laminate floor coverings – Castor chair test

**59.080.70                    Geotekstili**

**Europska normizacija  
CEN**

EN 14196:2016-02

Geosynthetics – Test methods for measuring mass per unit area of clay geosynthetic barriers

**59.140.30                    Koža i krvno**

**Međunarodna normizacija  
ISO**

ISO 2417:2016-02

Leather – Physical and mechanical tests – Determination of the static absorption of water

ISO 2589:2016-02

Leather – Physical and mechanical tests – Determination of thickness

ISO 3377-2:2016-02

Leather – Physical and mechanical tests – Determination of tear load – Part 2: Double edge tear

ISO 17229:2016-02

Leather – Physical and mechanical tests – Determination of water vapour absorption

ISO 19070:2016-03

Leather – Chemical determination of N-methyl-2-pyrrolidone (NMP) in leather

ISO 19071:2016-03

Leather – Chemical tests – Determination of chromium (VI) and the reductive potential for chromium tanning agents

EN ISO 2417:2016-03

Leather – Physical and mechanical tests – Determination of the static absorption of water (ISO 2417:2016)

EN ISO 2589:2016-03

Leather – Physical and mechanical tests – Determination of thickness (ISO 2589:2016)

EN ISO 3377-2:2016-03

Leather – Physical and mechanical tests – Determination of tear load – Part 2: Double edge tear (ISO 3377-2:2016)

EN ISO 17229:2016-03

Leather – Physical and mechanical tests – Determination of water vapour absorption (ISO 17229:2016)

EN ISO 17236:2016-03

Leather – Physical and mechanical tests – Determination of extension set (ISO 17236:2016)

EN ISO 19070:2016-04

Leather – Chemical determination of N-methyl-2-pyrrolidone (NMP) in leather (ISO 19070:2016)

EN ISO 19071:2016-04

Leather – Chemical tests – Determination of chromium (VI) and the reductive potential for chromium tanning agents (ISO 19071:2016)

**65.060.01 Poljoprivredni strojevi i oprema općenito**

**Međunarodna normizacija  
ISO**

ISO 11001-1:2016-02

Agricultural wheeled tractors – Three-point hitch couplers – Part 1: U-frame coupler

ISO 18564:2016-04

Machinery for forestry – Noise test code

**65.060.50 Oprema za žetvu**

**Međunarodna normizacija  
ISO**

ISO 4254-14:2016-03

Agricultural machinery – Safety – Part 14: Bale wrappers

**65.060.80 Oprema za šumarstvo**

**Europska normizacija  
CEN**

EN ISO 11850/A1:2016-02

Machinery for forestry – General safety requirements (ISO 11850:2011/Amd 1:2016)

**Međunarodna normizacija  
ISO**

ISO 13860:2016-03

Machinery for forestry – Forwarders – Terms, definitions and commercial specifications

**65.080 Gnojiva**

**Europska normizacija  
CEN**

EN 16318+A1:2016-02

Fertilizers and liming materials – Determination of chromium(VI) by photometry (method A) and by ion chromatography with spectrophotometric detection (method B)

**Međunarodna normizacija  
ISO**

ISO 18643:2016-04

Fertilizers and soil conditioners – Determination of biuret content of urea-based fertilizers – HPLC method

ISO 18645:2016-03

Fertilizers and soil conditioners – Water soluble fertilizer – General requirements

**65.120 Hrana za životinje**

**Europska normizacija  
CEN**

EN ISO 13904:2016-03  
Animal feeding stuffs – Determination of tryptophan content (ISO 13904:2016)

**Međunarodna normizacija  
ISO**

ISO 13904:2016-02  
Animal feeding stuffs – Determination of tryptophan content

**67.050 Opće metode ispitivanja i analize hrane**

**Europska normizacija  
CEN**

**EN 16802:2016-03**

Foodstuffs – Determination of elements and their chemical species – Determination of inorganic arsenic in foodstuffs of marine and plant origin by anion-exchange HPLC-ICP-MS

**Međunarodna normizacija  
ISO**

ISO 16577:2016-03  
Molecular biomarker analysis – Terms and definitions

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

**Europska normizacija  
CEN**

EN 16802:2016-03  
Foodstuffs – Determination of elements and their chemical species – Determination of inorganic arsenic in foodstuffs of marine and plant origin by anion-exchange HPLC-ICP-MS

**Međunarodna normizacija  
ISO**

ISO 7304-1:2016-03  
Durum wheat semolina and alimentary pasta – Estimation of cooking quality of alimentary pasta by sensory analysis – Part 1: Reference method

**67.100.01 Mlijeko i mliječni proizvodi općenito**

**Međunarodna normizacija  
ISO**

ISO 27105:2016-04  
Milk and cheese – Determination of hen's egg white lysozyme content by high performance liquid chromatography

## **67.120.30 Riba i riblji proizvodi**

### **Europska normizacija**

**CEN**

EN 16801:2016-03

Foodstuffs – Determination of elements and their chemical species – Determination of methylmercury in foodstuffs of marine origin by isotope dilution GC-ICP-MS

EN 16802:2016-03

Foodstuffs – Determination of elements and their chemical species – Determination of inorganic arsenic in foodstuffs of marine and plant origin by anion-exchange HPLC-ICP-MS

## **67.200.10 Životinjske i biljne masti i ulja**

### **Europska normizacija**

**CEN**

EN ISO 29841/A1:2016-02

Vegetable fats and oils – Determination of the degradation products of chlorophylls a and a' (pheophytins a, a' and pyropheophytins) (ISO 29841:2009/AMD 1:2016)

EN ISO 6885 : 2016-03

Tierische und pflanzliche Fette und Öle – Bestimmung der Anisidinzahl (ISO 6885:2016)  
Animal and vegetable fats and oils – Determination of anisidine value (ISO 6885:2016)

EN ISO 6886 : 2016-03

Tierische und pflanzliche Fette und Öle – Bestimmung der Oxidationsstabilität (beschleunigter Oxidationstest) (ISO 6886:2016)

### **Međunarodna normizacija**

**ISO**

ISO 6885:2016-02

Animal and vegetable fats and oils – Determination of anisidine value

ISO 6886:2016-02

Animal and vegetable fats and oils – Determination of oxidative stability (accelerated oxidation test)

ISO 27608 AMD 1:2016-02

Animal and vegetable fats and oils – Determination of Lovibond® colour – Automatic method; Amendment 1

ISO 9936:2016-04

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography

ISO 15753:2016-04

Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons

## **67.240 Senzorske analize**

### **Europska normizacija**

**CEN**

EN ISO 5495/A1:2016-03

Sensory analysis – Methodology – Paired comparison test (ISO 5495:2005/Amd 1:2016)

EN ISO 13299:2016-04  
Sensory analysis – Methodology – General guidance for establishing a sensory profile  
(ISO 13299:2016)

**Međunarodna normizacija**  
**ISO**

ISO 5495 AMD 1:2016-02  
Sensory analysis – Methodology – Paired comparison test; Amendment 1

ISO 13299:2016-03  
Sensory analysis – Methodology – General guidance for establishing a sensory profile

**67.250 Materijali i predmeti u dodiru s hranaom**

**Međunarodna normizacija**  
**ISO**

ISO 18188:2016-02  
Specification of polypropylene drinking straws

**71.040.20 Laboratorijsko posuđe i odgovarajuća aparatura**

**Europska normizacija**  
**CEN**

EN ISO 4796-1:2016-02  
Laboratory glassware – Bottles – Part 1: Screw-neck bottles (ISO 4796-1:2016)

EN ISO 16496:2016-02  
Laboratory glassware – Vacuum-jacketed vessels for heat insulation (ISO 16496:2016)

**71.040.40 Kemijska analiza**

**Europska normizacija**  
**CEN**

EN 50436-1/AC:2016-03  
Alcohol interlocks – Test methods and performance requirements – Part 1: Instruments for drink-driving-offender programs

**Međunarodna normizacija**  
**ISO**

ISO 18554:2016-03  
Surface chemical analysis – Electron spectroscopies – Procedures for identifying, estimating and correcting for unintended degradation by X-rays in a material undergoing analysis by X-ray photoelectron spectroscopy

**71.100.35                    Kemikalije za dezinfekciju u industriji i kućanstvima**

**Europska normizacija  
CEN**

EN 1657:2016-04

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area – Test method and requirements (phase 2, step 1)

**71.100.60                    Eterična ulja**

**Međunarodna normizacija  
ISO**

ISO 3527:2016-04

Essential oil of parsley fruits (*Petroselinum sativum* Hoffm.)

ISO 8896:2016-04

Essential oil of caraway (*Carum carvi* L.)

**71.100.70                    Kozmetika. Toaletne potrepštine**

**Međunarodna normizacija  
ISO**

ISO 16128-1:2016-02

Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients and products – Part 1: Definitions for ingredients

**71.100.80                    Kemikalije za pročišćivanje vode**

**Europska normizacija  
CEN**

EN 878:2016-03

Chemicals used for treatment of water intended for human consumption – Aluminium sulfate

EN 882:2016-03

Chemicals used for treatment of water intended for human consumption – Sodium aluminate

EN 887:2016-03

Chemicals used for treatment of water intended for human consumption – Aluminium iron (III) sulfate

**73.040                    Ugljen**

**Međunarodna normizacija  
ISO**

ISO 7404-1:2016-04

Methods for the petrographic analysis of coals – Part 1: Vocabulary

**Ostale rude crnih metala**

## Međunarodna normizacija ISO

ISO 10378:2016-02

## Copper, lead and zinc sulfide concentrates – Determination of gold and silver – Fire assay gravimetric and flame atomic absorption spectrometric method

**75.020 Crpenje i obrada nafte i prirodnoga plina**

## **Europska normizacija CEN**

EN ISO 17349:2016-03

## Petroleum and natural gas industries – Offshore platforms handling streams with high content of CO<sub>2</sub> at high pressures (ISO 17349:2016)

## Međunarodna normizacija ISO

ISO 17349:2016-02

Petroleum and natural gas industries – Offshore platforms handling streams with high content of CO<sub>2</sub> at high pressures

## **75.080 Naftni proizvodi općenito**

## **Europska normizacija CEN**

EN 12916:2016-02

## Petroleum products – Determination of aromatic hydrocarbon types in middle distillates – High performance liquid chromatography method with refractive index detection

75.160.10 Kruta goriva

## **Europska normizacija CEN**

EN ISO 17827-1:2016-04

## Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above (ISO 17827-1:2016)

EN ISO 17830:2016-04

## Solid biofuels – Particle size distribution of disintegrated pellets (ISO 17830:2016)

## Međunarodna normizacija ISO

ISO 17827-1:2016-03

## Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above

ISO 17830:2016-03  
Solid biofuels – Particle size distribution of disintegrated pellets

**75.160.20                   Tkuća goriva**

**Europska normizacija**  
**CEN**

CEN/TR 16884:2016-02  
Automotive fuels – Diesel fuel – Cold operability testing and fuel performance correlation

EN ISO 12156-1:2016-03  
Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method (ISO 12156-1:2016)

**Međunarodna normizacija**  
**ISO**

ISO 12156-1:2016-02  
Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method

ISO 22854:2016-03  
Liquid petroleum products – Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel – Multidimensional gas chromatography method

**75.180.01                   Oprema za naftnu industriju i industriju prirodnoga plina općenito**

**Europska normizacija**  
**CEN**

EN ISO 17348:2016-03  
Petroleum and natural gas industries – Materials selection for high content CO<sub>2</sub> environment for casings, tubings and downhole equipment (ISO 17348:2016)

**Međunarodna normizacija**  
**ISO**

ISO 17348:2016-02  
Petroleum and natural gas industries – Materials selection for high content CO<sub>2</sub> for casing, tubing and downhole equipment

**75.180.10                   Oprema za iskorištavanje i vađenje**

**Europska normizacija**  
**CEN**

EN ISO 19905-1:2016-02  
Petroleum and natural gas industries – Site-specific assessment of mobile offshore units – Part 1: Jack-ups (ISO 19905-1:2016)

EN ISO 19901-5:2016-03  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 5: Weight control during engineering and construction (ISO 19901-5:2016)

**Međunarodna normizacija  
ISO**

ISO 19901-5:2016-02

Petroleum and natural gas industries – Specific requirements for offshore structures – Part 5: Weight control during engineering and construction

**75.200**

**Oprema za rukovanje naftnim proizvodima i prirodnim plinom**

**Europska normizacija  
CEN**

EN 1918-1:2016-03

Gas infrastructure – Underground gas storage – Part 1: Functional recommendations for storage in aquifers

EN 1918-2:2016-03

Gas infrastructure – Underground gas storage – Part 2: Functional recommendations for storage in oil and gas fields

EN 1918-3:2016-03

Gas infrastructure – Underground gas storage – Part 3: Functional recommendations for storage in solution-mined salt caverns

EN 1918-4:2016-03

Gas infrastructure – Underground gas storage – Part 4: Functional recommendations for storage in rock caverns

EN 1918-5:2016-03

Gas infrastructure – Underground gas storage – Part 5: Functional recommendations for surface facilities

EN ISO 16904:2016-03

Petroleum and natural gas industries – Design and testing of LNG marine transfer arms for conventional onshore terminals (ISO 16904:2016)

EN ISO 21809-3:2016-03

Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 3: Field joint coatings (ISO 21809-3:2016)

**Međunarodna normizacija  
ISO**

ISO 16904:2016-02

Petroleum and natural gas industries – Design and testing of LNG marine transfer arms for conventional onshore terminals

ISO 21809-3:2016-03

Petroleum and natural gas industries – External coatings for buried or submerged pipelines used in pipeline transportation systems – Part 3: Field joint coatings

## **77.040.30**

### **Kemijska analiza metala**

#### **Europska normizacija**

**CEN**

CEN/TR 10364:2016-03

Steels and cast irons – Determination of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE) with regard to directives 2011/65/EU (RoHS) and 2000/53/EC (ELV) – Limitations

EN ISO 4829-2:2016-03

Steels – Determination of total silicon contents – Reduced molybdate-silicate spectrophotometric method – Part 2: Silicon contents between 0,01 % and 0,05 % (ISO 4829-2:2016)

EN ISO 4938:2016-03

Steel and iron – Determination of nickel content – Gravimetric or titrimetric method (ISO 4938:2016)

#### **Međunarodna normizacija**

**ISO**

ISO 4829-2:2016-02

Steels – Determination of total silicon contents – Reduced molybdate-silicate spectrophotometric method – Part 2: Silicon contents between 0,01 % and 0,05 %

ISO 4938:2016-02

Steel and iron – Determination of nickel content – Gravimetric or titrimetric method

## **77.040.99**

### **Ostale metode za ispitivanje metala**

#### **Europska normizacija**

**CEN**

EN ISO 4499-3:2016-03

Hardmetals – Metallographic determination of microstructure – Part 3: Measurement of microstructural features in Ti (C, N) and WC/cubic carbide based hardmetals (ISO 4499-3:2016)

EN ISO 4499-4:2016-03

Hardmetals – Metallographic determination of microstructure – Part 4: Characterisation of porosity, carbon defects and eta-phase content (ISO 4499-4:2016)

#### **Međunarodna normizacija**

**ISO**

ISO 4499-3:2016-02

Hardmetals – Metallographic determination of microstructure – Part 3: Measurement of microstructural features in Ti (C, N) and WC/cubic carbide based hardmetals

ISO 4499-4:2016-02

Hardmetals – Metallographic determination of microstructure – Part 4: Characterisation of porosity, carbon defects and eta-phase content

## **77.080.01 Metali na bazi željeza općenito**

### **Europska normizacija CEN**

CEN/TR 10364:2016-03

Steels and cast irons – Determination of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE) with regard to directives 2011/65/EU (RoHS) and 2000/53/EC (ELV) – Limitations

EN ISO 4946:2016-03

Steel and cast iron – Determination of copper – 2,2'-Biquinoline spectrophotometric method (ISO 4946:2016)

### **Međunarodna normizacija ISO**

ISO 4946:2016-02

Stahl und Gusseisen – Bestimmung des Kupferanteils – Spektrophotometrisches Verfahren mit 2,2'-Biquinoline

Steel and cast iron – Determination of copper – 2,2'-Biquinoline spectrophotometric method

## **77.140.50 Proizvodi i poluproizvodi od plosnatog čelika**

### **Europska normizacija CEN**

EN 10139:2016-02

Cold rolled uncoated low carbon steel narrow strip for cold forming – Technical delivery conditions

### **Međunarodna normizacija ISO**

ISO 11949:2016-03

Cold-reduced tinmill products – Electrolytic tinplate

ISO 11950:2016-03

Cold-reduced tinmill products – Electrolytic chromium/chromium oxide-coated steel

ISO 11951:2016-03

Cold-reduced tinmill products – Blackplate

## **77.140.65 Čelična žica, čelična užad i lanci**

### **Međunarodna normizacija ISO**

ISO 22034-2:2016-04

Steel wire and wire products – Part 2: Tolerances on wire dimensions

**77.140.75**

**Čelične cijevi i čelične cijevi za posebnu namjenu**

**Europska normizacija**

**CEN**

EN 10305-1:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 1: Seamless cold drawn tubes

EN 10305-2:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 2: Welded cold drawn tubes

EN 10305-3:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 3: Welded cold sized tubes

EN 10305-4:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 4: Seamless cold drawn tubes for hydraulic and pneumatic power systems

EN 10305-5:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 5: Welded cold sized square and rectangular tubes

EN 10305-6:2016-03

Steel tubes for precision applications – Technical delivery conditions – Part 6: Welded cold drawn tubes for hydraulic and pneumatic power systems

**Međunarodna normizacija**

**ISO**

ISO 16631:2016-03

Ductile iron pipes, fittings, accessories and their joints compatible with plastic (PVC or PE) piping systems, for water applications and for plastic pipeline connections, repair and replacement

**77.140.80**

**Odljevci od željeznog lijeva i čelični odljevci**

**Europska normizacija**

**CEN**

EN ISO 11970:2016-03

Specification and qualification of welding procedures for production welding of steel castings (ISO 11970:2016)

**Međunarodna normizacija**

**ISO**

ISO 11970:2016-03

Specification and qualification of welding procedures for production welding of steel castings

## **77.150.10                  Proizvodi od aluminija**

### **Europska normizacija CEN**

EN 754-1:2016-03

Aluminium and aluminium alloys – Cold drawn rod/bar and tube – Part 1: Technical conditions for inspection and delivery

EN 755-2:2016-03

Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 2: Mechanical properties

EN 12392:2016-03

Aluminium and aluminium alloys – Wrought products and cast products – Special requirements for products intended for the production of pressure equipment

## **77.150.50                  Proizvodi od titana**

### **Međunarodna normizacija ISO**

ISO 18762:2016-04

Tubes of titanium and titanium alloys – Welded tubes for condensers and heat exchangers – Technical delivery conditions

## **77.160                  Metalurgija praha**

### **Europska normizacija CEN**

EN ISO 4499-3:2016-03

Hardmetals – Metallographic determination of microstructure – Part 3: Measurement of microstructural features in Ti (C, N) and WC/cubic carbide based hardmetals (ISO 4499-3:2016)

EN ISO 4499-4:2016-03

Hardmetals – Metallographic determination of microstructure – Part 4: Characterisation of porosity, carbon defects and eta-phase content (ISO 4499-4:2016)

### **Međunarodna normizacija ISO**

ISO 4499-3:2016-02

Hardmetals – Metallographic determination of microstructure – Part 3: Measurement of microstructural features in Ti (C, N) and WC/cubic carbide based hardmetals

ISO 4499-4:2016-02

Hardmetals – Metallographic determination of microstructure – Part 4: Characterisation of porosity, carbon defects and eta-phase content

## **79.040 Drvo, trupci i piljena građa**

### **Europska normizacija CEN**

EN 14081-1:2016-02

Timber structures – Strength graded structural timber with rectangular cross section – Part 1: General requirements

EN 338:2016-04

Structural timber – Strength classes

### **Međunarodna normizacija ISO**

ISO 8903:2016-02

Broadleaved sawn timber – Nominal sizes

## **79.060.01 Ploče na osnovi drva općenito**

### **Europska normizacija CEN**

EN ISO 12460-4:2016-02

Wood-based panels – Determination of formaldehyde release – Part 4: Desiccator method  
(ISO 12460-4:2016)

## **81.040.20 Staklo u graditeljstvu**

### **Europska normizacija CEN**

EN 572-1+A1:2016-02

Glass in building – Basic soda-lime silicate glass products – Part 1: Definitions and general physical and mechanical properties

EN 572-8+A1:2016-02

Glass in building – Basic soda-lime silicate glass products – Part 8: Supplied and final cut sizes

### **Međunarodna normizacija ISO**

ISO 1288-1:2016-02

Glass in building – Determination of the bending strength of glass – Part 1: Fundamentals of testing glass

ISO 1288-2:2016-02

Glass in building – Determination of the bending strength of glass – Part 2: Coaxial double-ring test on flat specimens with large test surface areas

ISO 1288-3:2016-02

Glass in building – Determination of the bending strength of glass – Part 3: Test with specimen supported at two points (four point bending)

ISO 1288-4:2016-02

Glass in building – Determination of the bending strength of glass – Part 4: Testing of channel shaped glass

ISO 1288-5:2016-02

Glass in building – Determination of the bending strength of glass – Part 5: Coaxial double ring test on flat specimens with small test surface areas

ISO 16932:2016-03

Glass in building – Destructive-windstorm-resistant security glazing – Test and classification

#### **81.040.30**

#### **Proizvodi od stakla**

##### **Međunarodna normizacija**

**ISO**

ISO 3917:2016-02

Road vehicles – Safety glazing materials – Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering

#### **81.060.30**

#### **Tehnička keramika**

##### **Međunarodna normizacija**

**ISO**

ISO 18550:2016-03

Fine ceramics (advanced ceramics, advanced technical ceramics) – Testing method for macro-heterogeneity in microstructure

ISO 19635:2016-03

Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for antialgal activity of semiconducting photocatalytic materials

#### **83.060**

#### **Guma**

##### **Međunarodna normizacija**

**ISO**

ISO 289-2:2016-02

Rubber, unvulcanized – Determinations using a shearing-disc viscometer – Part 2: Determination of pre-vulcanization characteristics

ISO 18898:2016-02

Rubber – Calibration and verification of hardness testers

ISO 23233:2016-03

Rubber, vulcanized or thermoplastic – Determination of resistance to abrasion using a driven, vertical abrasive disc

ISO 21561-2:2016-03

Styrene-butadiene rubber (SBR) – Determination of the microstructure of solution-polymerized SBR – Part 2: FTIR with ATR method

## **83.080.01                    Plastika općenito**

### **Europska normizacija CEN**

EN ISO 4892-3:2016-03

Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO 4892-3:2016)

### **Međunarodna normizacija ISO**

ISO 4892-3:2016-02

Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps

ISO/TR 18486:2016-02

Plastics – Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance

## **83.080.20                    Plastomerni materijali**

### **Europska normizacija CEN**

EN ISO 17855-2:2016-03

Plastics – Polyethylene (PE) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 17855-2:2016)

EN ISO 19069-2:2016-03

Plastics – Polypropylene (PP) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 19069-2:2016)

### **Međunarodna normizacija ISO**

ISO 17855-2:2016-02

Plastics – Polyethylene (PE) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties

ISO 19069-2:2016-02

Plastics – Polypropylene (PP) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties

## **83.120                    Ojačana plastika**

### **Europska normizacija CEN**

EN 59:2016-02

Glass reinforced plastics – Determination of indentation hardness by means of a Barcol hardness tester

## **83.140.20                    Laminatne ploče**

### **Europska normizacija CEN**

EN 438-1:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 1: Introduction and general information

EN 438-2:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 2: Determination of properties

EN 438-3:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 3: Classification and specifications for laminates less than 2 mm thick intended for bonding to supporting substrates

EN 438-4:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater

EN 438-5:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates

EN 438-6:2016-02

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 6: Classification and specifications for Exterior-grade compact laminates of thickness 2 mm and greater

## **83.140.99                    Ostali gumeni i plastični proizvodi**

### **Europska normizacija CEN**

EN 12608-1:2016-03

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors – Classification, requirements and test methods – Part 1: Non-coated PVC-U profiles with light coloured surfaces

### **Međunarodna normizacija ISO**

ISO 18188:2016-02

Specification of polypropylene drinking straws

## **85.020                    Procesi proizvodnje papira**

### **Međunarodna normizacija ISO**

ISO 4046-1:2016-03

Paper, board, pulps and related terms – Vocabulary – Part 1: Alphabetical index

**85.040 Celuloza**

**Međunarodna normizacija**  
**ISO**

ISO 4046-1:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 1: Alphabetical index

ISO 4046-2:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 2: Pulping terminology

ISO 4046-5:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 5: Properties of pulp, paper and board

**85.060 Papir i karton**

**Međunarodna normizacija**  
**ISO**

ISO 4046-1:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 1: Alphabetical index

ISO 4046-4:2016-03  
Papier, Pappe, Faserstoffe und verwandte Begriffe – Vokabular – Teil 4: Papier- und Kartonsorten und konvertierte Produkte

ISO 4046-5:2016-03  
Paper, board, pulps and related terms – Vocabulary – Part 5: Properties of pulp, paper and board

**87.040 Boje i lakovi**

**Europska normizacija**  
**CEN**

EN ISO 4628-1:2016-02  
Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 1: General introduction and designation system (ISO 4628-1:2016)

EN ISO 4628-2:2016-02  
Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 2: Assessment of degree of blistering (ISO 4628-2:2016)

EN ISO 4628-3:2016-02  
Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 3: Assessment of degree of rusting (ISO 4628-3:2016)

EN ISO 4628-4:2016-02  
Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 4: Assessment of degree of cracking (ISO 4628-4:2016)

EN ISO 4628-5:2016-02

Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 5: Assessment of degree of flaking (ISO 4628-5:2016)

EN ISO 4628-7:2016-02

Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 7: Assessment of degree of chalking by velvet method (ISO 4628-7:2016)

EN ISO 4628-10:2016-02

Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 10: Assessment of degree of filiform corrosion (ISO 4628-10:2016)

EN ISO 2811-1:2016-03

Paints and varnishes – Determination of density – Part 1: Pycnometer method (ISO 2811-1:2016)

EN ISO 4624:2016-04

Paints and varnishes – Pull-off test for adhesion (ISO 4624:2016)

## **Međunarodna normizacija**

### **ISO**

ISO 2811-1:2016-03

Paints and varnishes – Determination of density – Part 1: Pycnometer method

ISO 4624:2016-03

Paints and varnishes – Pull-off test for adhesion

ISO 7784-1:2016-03

Paints and varnishes – Determination of resistance to abrasion – Part 1: Method with abrasive-paper covered wheels and rotating test specimen

ISO 7784-2:2016-03

Paints and varnishes – Determination of resistance to abrasion – Part 2: Method with abrasive rubber wheels and rotating test specimen

ISO 7784-3:2016-03

Paints and varnishes – Determination of resistance to abrasion – Part 3: Method with abrasive-paper covered wheel and linearly reciprocating test specimen

ISO 16773-1:2016-04

Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 1: Terms and definitions

ISO 16773-2:2016-04

Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 2: Collection of data

ISO 16773-3:2016-04

Electrochemical impedance spectroscopy (EIS) on coated and uncoated metallic specimens – Part 3: Processing and analysis of data from dummy cells

## **91.060.10 Zidovi, Pregrade, Pročelja**

### **Europska normizacija CEN**

EN 846-9:2016-03

Methods of test for ancillary components for masonry – Part 9: Determination of flexural resistance and shear resistance of lintels

## **91.060.20 Krovovi**

### **Europska normizacija CEN**

EN 1873+A1:2016-02

Prefabricated accessories for roofing – Individual rooflights of plastics – Product specification and test methods

## **91.060.50 Vrata i prozori**

### **Europska normizacija CEN**

EN 1026:2016-03

Windows and doors – Air permeability – Test method

EN 1027:2016-03

Windows and doors – Water tightness – Test method

EN 12210:2016-03

Windows and doors – Resistance to wind load – Classification

EN 12211 : 2016-03

Fenster und Türen – Widerstandsfähigkeit bei Windlast – Prüfverfahren

Windows and doors – Resistance to wind load – Test method

EN 12608-1:2016-03

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors – Classification, requirements and test methods – Part 1: Non-coated PVC-U profiles with light coloured surfaces

EN 13561/AC:2016-03

External blinds and awnings – Performance requirements including safety

## **91.080.20 Drvene konstrukcije**

### **Europska normizacija CEN**

EN 1381:2016-02

Timber structures – Test methods – Load bearing stapled joints

EN 1382:2016-02

Timber Structures – Test methods – Withdrawal capacity of timber fasteners

EN 1383:2016-02

Timber structures – Test methods – Pull through resistance of timber fasteners

**Međunarodna normizacija  
ISO**

ISO 18324:2016-04

Timber structures – Test methods – Floor vibration performance

**91.080.30 Zidarstvo**

**Europska normizacija**

**CEN**

EN 846-9:2016-03

Methods of test for ancillary components for masonry – Part 9: Determination of flexural resistance and shear resistance of lintels

EN 1052-2:2016-03

Methods of test for masonry – Part 2: Determination of flexural strength

**91.080.40 Betonske konstrukcije**

**Europska normizacija**

**CEN**

EN 14038-1:2016-03

Electrochemical realkalization and chloride extraction treatments for reinforced concrete – Part 1: Realkalization

**91.100.01 Građevni materijali općenito**

**Europska normizacija**

**CEN**

EN ISO 15148/A1:2016-02

Hygrothermal performance of building materials and products – Determination of water absorption coefficient by partial immersion – Amendment 1 (ISO 15148:2002/Amd 1:2016)

**91.100.10 Cement. Gips. Vapno. Mort**

**Europska normizacija**

**CEN**

EN 13914-1:2016-03

Design, preparation and application of external rendering and internal plastering – Part 1: External rendering

EN 13914-2:2016-03

Design, preparation and application of external rendering and internal plastering – Part 2: Internal plastering

## **91.100.25 Građevni proizvodi od pečene gline**

## **Europska normizacija CEN**

EN 772-5:2016-03

## Methods of test for masonry units – Part 5: Determination of the active soluble salts content of clay masonry units

## **91.100.30 Beton i betonski proizvodi**

## **Europska normizacija CEN**

CEN/TR 15728:2016-02

Design and use of inserts for lifting and handling of precast concrete elements

**91.100.50 Veziva. Materijali za brtvljenje**

## **Europska normizacija CEN**

EN 14196:2016-02

## Geosynthetics – Test methods for measuring mass per unit area of clay geosynthetic barriers

**91.100.60 Materijali za toplinsku i zvučnu izolaciju**

## **Europska normizacija CEN**

EN ISO 15148/A1:2016-02

## Hygrothermal performance of building materials and products – Determination of water absorption coefficient by partial immersion – Amendment 1 (ISO 15148:2002/Amd 1:2016)

**91.120.20** Akustika u zgradama. Zvučna izolacija

## **Europska normizacija CEN**

EN ISO 16283-3:2016-0

Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 3:  
Façade sound insulation (ISO 16283-3:2016)

## Međunarodna normizacija ISO

ISO 16283-3:2016-02

## Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 3: Façade sound insulation

## **91.140.30                    Sustavi prozračivanja i klimatizacije**

### **Europska normizacija CEN**

EN ISO 16891:2016-02

Test methods for evaluating degradation of characteristics of cleanable filter media (ISO 16891:2016)

EN 14825:2016-03

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

## **91.140.50                    Sustavi opskrbe električnom energijom**

### **Međunarodna normizacija IEC**

IEC 62056-6-2:2016-02

Electricity metering data exchange – The DLMS/COSEM suite – Part 6-2: COSEM interface classes

IEC 62056-5-3:2016-03

Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer

## **91.140.60                    Sustavi opskrbe vodom**

### **Europska normizacija CEN**

EN ISO 11177:2016-03

Vitreous and porcelain enamels – Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply – Quality requirements and testing (ISO 11177:2016)

### **Međunarodna normizacija ISO**

ISO 11177:2016-02

Vitreous and porcelain enamels – Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply – Quality requirements and testing

ISO 16631:2016-03

Ductile iron pipes, fittings, accessories and their joints compatible with plastic (PVC or PE) piping systems, for water applications and for plastic pipeline connections, repair and replacement

## **91.140.70                    Sanitarne instalacije**

### **Europska normizacija CEN**

EN 16578:2016-02

Ceramics sanitary appliances – Sustainability assessment

**91.140.90 Dizala. Pokretne stube**

**Europska normizacija**  
**CEN**

EN 81-73:2016-02

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

**91.190 Građevni pribor**

**Europska normizacija**  
**CEN**

EN 12209:2016-03

Building hardware – Mechanically operated locks and locking plates – Requirements and test methods

**93.080.20 Materijali za gradnju cesta**

**Europska normizacija**  
**CEN**

EN 12697-16:2016-04

Bituminous mixtures – Test methods – Part 16: Abrasion by studded tyres

EN 12697-35:2016-04

Bituminous mixtures – Test methods – Part 35: Laboratory mixing

**93.080.30 Cestovna oprema i instalacije**

**Europska normizacija**  
**CEN**

EN 1793-5:2016-03

Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 5: Intrinsic characteristics – In situ values of sound reflection under direct sound field conditions

**93.100 Gradnja željezničkih pruga**

**Međunarodna normizacija**  
**ISO**

ISO 5003:2016-03

Flat bottom (Vignole) railway rails 43 kg/m and above

**97.040.10 Kućanski namještaj**

**Europska normizacija**  
**CEN**

EN 14749:2016-02

Furniture – Domestic and kitchen storage units and kitchen-worktops – Safety requirements and test methods

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

**Europska normizacija  
CENELEC**

EN 203-1/AC:2016-03  
Gas heated catering equipment – Part 1: General safety rules

EN 60335-2-25/A2:2016-02  
Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens (IEC 60335-2-25:2010/A2:2015)

EN 60335-2-37/A12:2016-03  
Household and similar electrical appliances – Safety – Part 2-37: Particular requirements for commercial electric deep fat fryers

**97.060 Praonički uređaji**

**Europska normizacija  
CENELEC**

EN 50229/AC:2016-02  
Electric clothes washer-dryers for household use – Methods of measuring the performance

**97.100.10 Električni grijaci**

**Međunarodna normizacija  
IEC**

IEC 62999:2016-02  
Electric room heating – Underfloor heating – Performance characteristics – Definitions, method of testing, sizing and formula symbols

**97.120 Automatsko upravljanje za kućansku upotrebu**

**Europska normizacija  
CENELEC**

EN 60730-2-6:2016-02  
Automatic electrical controls – Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements (IEC 60730-2-6:2015)

**97.140 Namještaj**

**Europska normizacija  
CEN**

EN 14749:2016-02  
Furniture – Domestic and kitchen storage units and kitchen-worktops – Safety requirements and test methods

## **97.150                  Netekstilni podni prekrivači**

### **Europska normizacija CEN**

EN 13329:2016-03

Laminate floor coverings – Elements with a surface layer based on aminoplastic thermosetting resins – Specifications, requirements and test methods

EN 14978:2016-03

Laminate floor coverings – Elements with acrylic based surface layer, electron beam cured – Specifications, requirements and test methods

EN 15468:2016-03

Laminate floor coverings – Elements with directly applied printing and resin surface layer – Specifications, requirements and test methods

EN 16776:2016-03

Resilient floor coverings – Heterogeneous polyurethane floor coverings – Specification

### **Međunarodna normizacija ISO**

ISO 4918:2016-03

Resilient, textile and laminate floor coverings – Castor chair test

## **97.170                  Oprema za njegu tijela**

### **Europska normizacija CENELEC**

EN 60335-2-8/A1:2016-02

Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances (IEC 60335-2-8:2012/A1:2015)

## **97.200.50              Igračke**

### **Europska normizacija CEN**

CEN ISO/TR 8124-8:2016-02

Safety of toys – Part 8: Age determination guidelines (ISO/TR 8124-8:2016)

### **Međunarodna normizacija ISO**

ISO/TR 8124-8:2016-02

Safety of toys – Part 8: Age determination guidelines

## **97.220.01              Sportska oprema i objekti općenito**

### **Međunarodna normizacija ISO**

ISO 20187:2016-02

Inflatable play equipment – Safety requirements and test methods

**97.220.10** **Sportski objekti**

## **Europska normizacija CEN**

EN 13451-3+A3:2016-02

## Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features

EN 16713-1:2016-02

## Domestic swimming pools – Water systems – Part 1: Filtration systems – Requirements and test methods

EN 16713-2:2016-02

## Domestic swimming pools – Water systems – Part 2: Circulation systems – Requirements and test methods

EN 16713-3:2016-02

Domestic swimming pools – Water systems – Part 3: Water treatment – Requirements

97.220.40 Oprema za sportove na otvorenom i sportove na vodi

## **Europska normizacija CEN**

EN 1809+A1:2016-03

## Diving equipment – Buoyancy compensators – Functional and safety requirements, test methods