

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

6/2016 prosinac, 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.

### **HN/T 8, Brodogradnja**

#### **HRN EN 1914:2016 en pr**

Plovni objekti unutarnje plovidbe – Radni čamci, brodski čamci i čamci za spašavanje (EN 1914:2016)  
Inland navigation vessels – Work boats, ship's boats and lifeboats (EN 1914:2016)

### **HN/T 22, Cestovna vozila**

#### **HRS CWA 16697:2016 en pr**

Prilagodba vozila vozačima s invaliditetom – Zahtjevi, metode ispitivanja i smjernice za dobru praksu (CWA 16697:2013)

Car-Adaptations for Disabled Drivers – Requirements, test methods and best practise guidelines (CWA 16697:2013)

#### **HRN EN 16882:2016 en pr**

Cestovna vozila – Sigurnost mehaničkih brtva na tachografima – Zahtjevi i postupci ispitivanja (EN 16882:2016)

Road vehicles – Security of the mechanical seals used on tachographs – Requirements and test procedures (EN 16882:2016)

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

#### **HRN EN 16807:2016 en pr**

Tekući naftni proizvodi – Biomaziva – Kriteriji i zahtjevi za biomaziva i maziva na bazi biomase (EN 16807:2016)

Liquid petroleum products – Bio-lubricants – Criteria and requirements of bio-lubricants and bio-based lubricants (EN 16807:2016)

#### **HRN EN 16896:2016 en pr**

Naftna industrija i proizvodi – Određivanje kinematicke viskoznosti – Metoda Stabingerovog viskozimetra (EN 16896:2016)

Petroleum products and related products – Determination of kinematic viscosity – Method by Stabinger Viscometer (EN 16896:2016)

#### **HRN EN 16942:2016 en pr**

Goriva – Identifikacija kompatibilnosti vozila – Grafički prikaz informacija za potrošače (EN 16942:2016)

Fuels – Identification of vehicle compatibility – Graphical expression for consumer information (EN 16942:2016)

## **HN/T 34, *Poljoprivredni i prehrambeni proizvodi***

### **HRN ISO 1446:2005/A1:2016 en pr**

Sirova kava – Određivanje udjela vode – Osnovna referentna metoda (ISO 1446:2001/Amd 1:2011)  
Green coffee – Determination of water content – Basic reference method  
(ISO 1446:2001/Amd 1:2011)

### **HRN ISO 2451:2016 enpr**

Kakao zrno – Specifikacija (ISO 2451:2014)  
Cocoa beans – Specification (ISO 2451:2014)

### **HRN ISO 3632-1:2016 en pr**

Mirodije – Šafran (*Crocus sativus L.*) – 1. dio: Specifikacija (ISO 3632-1:2011)  
Spices – Saffron (*Crocus sativus L.*) – Part 1: Specification (ISO 3632-1:2011)

### **HRN ISO 3632-2:2016 en pr**

Mirodije – Šafran (*Crocus sativus L.*) – 2. dio: Metode ispitivanja (ISO 3632-2:2010)  
Spices – Saffron (*Crocus sativus L.*) – Part 2: Test methods (ISO 3632-2:2010)

### **HRN ISO 3720:2016 enpr**

Crni čaj – Definicije i osnovni zahtjevi (ISO 3720:2011)  
Black tea – Definition and basic requirements (ISO 3720:2011)

### **HRN ISO 4150:2016 enpr**

Zelena kava ili sirova kava – Granulometrijska analiza – Ručno i strojno prosijavanje (ISO 4150:2011)  
Green coffee or raw coffee – Size analysis – Manual and machine sieving (ISO 4150:2011)

### **HRN ISO 6539:2016 enpr**

Cimet (*Cinnamomum zeylanicum Blume*) – Specifikacija (ISO 6539:2014)  
Cinnamon (*Cinnamomum zeylanicum Blume*) – Specification (ISO 6539:2014)

### **HRN ISO 6646:2016 enpr**

Riža – Određivanje mogućeg prinosa mljevenja neoljuštene i oljuštene riže (ISO 6646:2011)  
Rice – Determination of the potential milling yield from paddy and from husked rice (ISO 6646:2011)

### **HRN ISO 6666:2016 enpr**

Uzorkovanje kave – Sonde za zelenu kavu ili sirovu kavu i pergament kave (ISO 6666:2011)  
Coffee sampling – Triers for green coffee or raw coffee and parchment coffee (ISO 6666:2011)

### **HRN ISO 7301:2016 enpr**

Riža – Specifikacija (ISO 7301:2011)  
Rice – Specification (ISO 7301:2011)

### **HRN ISO 7304-1:2016 en pr**

Krupica od tvrde pšenice i tjestenina – Procjena kakvoće kuhanja tjestenine senzorskom analizom – 1. dio: Referentna metoda (ISO 7304-1:2016)  
Durum wheat semolina and alimentary pasta – Estimation of cooking quality of alimentary pasta by sensory analysis – Part 1: Reference method (ISO 7304-1:2016)

### **HRN ISO 7304-2:2016 en pr**

Tjestenina proizvedena od krupice tvrde pšenice – Procjena kakvoće kuhanja tjestenine senzorskom analizom – 2. dio: Rutinska metoda (ISO 7304-2:2008)  
Alimentary pasta produced from durum wheat semolina – Estimation of cooking quality by sensory analysis – Part 2: Routine method (ISO 7304-2:2008)

### **HRN ISO 7513:2001/A1:2016 en pr**

Instant-čaj u krutome obliku – Određivanje količine vode (gubitka mase na 103 °C)  
(ISO 7513:1990/Amd 1:2012)

Instant tea in solid form – Determination of moisture content (loss in mass at 103 degrees C)  
(ISO 7513:1990/Amd 1:2012)

**HRN ISO 7970:2016 enpr**

Pšenica (Triticum aestivum L.) – Specifikacija (ISO 7970:2011)  
Wheat (Triticum aestivum L.) – Specification (ISO 7970:2011)

**HRN ISO 8455:2011/A1:2016 en pr**

Sirova kava – Smjernice za skladištenje i transport (ISO 8455:2011/Amd 1:2015)  
Green coffee – Guidelines for storage and transport (ISO 8455:2011/Amd 1:2015)

**HRN ISO 11056:2008/A2:2016 en pr**

Senzorske analize – Metodologija – Metoda procjene veličine (ISO 11056:1999/Amd 2:2015)  
Sensory analysis – Methodology – Magnitude estimation method (ISO 11056:1999/Amd 2:2015)

**HRN ISO 11286:2016 en pr**

Čaj – Klasifikacija po stupnju usitnjjenosti (ISO 11286:2004)  
Tea – Classification of grades by particle size analysis (ISO 11286:2004)

**HRN ISO 29842:2014/A1:2016 en pr**

Senzorske analize – Metodologija – Uravnoteženi nepotpuni blok dizajn  
(ISO 29842:2011/Amd 1:2015)  
Sensory analysis – Methodology – Balanced incomplete block designs (ISO 29842:2011/Amd 1:2015)

***HNZ/TO 44, Zavarivanje i srodnii postupci*****HRN EN ISO 15614-7:2016 en pr**

Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 7. dio: Navarivanje (ISO 15614-7:2016; EN ISO 15614-7:2016)  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 7: Overlay welding (ISO 15614-7:2016; EN ISO 15614-7:2016)

**HRN EN 16813:2016 en pr**

Toplinsko naštrcavanje – Mjerjenje električne vodljivosti neželjeznih metalnih prevlaka nanesenih toploinskim naštrcavanjem metodom vrtložnih struja (EN 16813:2016)  
Thermal spraying – Measurement of the electrical conductivity of thermal sprayed non-iron metal coatings by means of eddy current method (EN 16813:2016)

**HRN EN ISO 17638:2016 en pr**

Nerazorno ispitivanje zavarenih spojeva – Ispitivanje magnetnim česticama (ISO 17638:2016;  
EN ISO 17638:2016)  
Non-destructive testing of welds – Magnetic particle testing (ISO 17638:2016; EN ISO 17638:2016)

***HNZ/TO 47, Kemija*****HRN ISO 1771:2001/A1:2016 en pr**

Termometri opće namjene sa zatvorenom skalom (ISO 1771:1981/Amd 1:1983)  
Enclosed-scale general purpose thermometers (ISO 1771:1981/Amd 1:1983)

***HNZ/TO 54, Eterična ulja*****HRN ISO 212:2008/A1:2016 enpr**

Eterična ulja – Uzorkovanje (ISO 212:2007/Amd 1:2012)  
Essential oils – Sampling (ISO 212:2007/Amd 1:2012)

## **HN/T 69, Primjena statističkih metoda**

### **HRS ISO/TS 21749:2016 en pr**

Mjerna nesigurnost za mjeriteljske primjene – Ponavljača mjerena i „ugniježđeni pokusi“ (ISO/TS 21749:2005)

Measurement uncertainty for metrological applications – Repeated measurements and nested experiments (ISO/TS 21749:2005)

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

### **HRN EN 206:2016 en pr**

Beton – Specifikacija, svojstva, proizvodnja i sukladnost (EN 206:2013+A1:2016)

Concrete – Specification, performance, production and conformity (EN 206:2013+A1:2016)

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

### **HRN EN 196-3:2016 enpr**

Metode ispitivanja cementa – 3. dio: Određivanje vremena vezivanja i postojanosti volumena (EN 196-3:2016)

Methods of testing cement – Part 3: Determination of setting times and soundness (EN 196-3:2016)

### **HRN EN 413-2:2016 enpr**

Zidarski cement – 2. dio: Metode ispitivanja (EN 413-2:2016)

Masonry cement – Part 2: Test methods (EN 413-2:2016)

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

Testing hardened concrete – Part 9: Freeze-thaw resistance with de-icing salts – Scaling (CEN/TS 12390-9:2016)

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

### **HRN EN 378-1:2016 enpr**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 1. dio: Osnovni zahtjevi, definicije, razredba i kriteriji odabira (EN 378-1:2016)

Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria (EN 378-1:2016)

### **HRN EN 378-2:2016 enpr**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 2. dio: Projektiranje, izvedba, ispitivanje, označivanje i dokumentacija (EN 378-2:2016)

Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation (EN 378-2:2016)

### **HRN EN 378-3:2016 enpr**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 3. dio: Mjesto instalacije i osobna zaštita (EN 378-3:2016)

Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site and personal protection (EN 378-3:2016)

### **HRN EN 378-4:2016 enpr**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 4. dio: Rukovanje, održavanje, popravci i sanacija (EN 378-4:2016)

Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery (EN 378-4:2016)

**HRN EN 12178:2016 en pr**

Rashladni sustavi i dizalice topline – Indikatori razine kapljevine – Zahtjevi, ispitivanje i označivanje (EN 12178:2016)

Refrigerating systems and heat pumps – Liquid level indicating devices – Requirements, testing and marking (EN 12178:2016)

**HRN EN 13215:2016 en pr**

Kondenzacijske jedinice za hlađenje – Uvjeti razvrstavanja, dopušenog odstupanja i prikaz tvorničkih radnih značajka (EN 13215:2016)

Condensing units for refrigeration – Rating conditions, tolerances and presentation of manufacturer's performance data (EN 13215:2016)

**HRN EN 13771-1:2016 en pr**

Kompresori i kondenzacijske jedinice za hlađenje – Ispitivanje radnih značajka i metode ispitivanja – 1. dio: Rashladni kompresori (EN 13771-1:2016)

Compressors and condensing units for refrigeration – Performance testing and test methods – Part 1: Refrigerant compressors (EN 13771-1:2016)

**HRN EN 16902:2016 en pr**

Komercijalne rashladne vitrine za hlađenje pića – Razredba, zahtjevi i uvjeti ispitivanja (EN 16902:2016)

Commercial beverage coolers – Classification, requirements and test conditions (EN 16902:2016)

**HNZ/TO 92, Zaštita od požara****HRN EN 15269-5:2016 en pr**

Proširena primjena rezultata ispitivanja otpornosti na požar i/ili dimopropusnosti vrata, zaslona i prozora koji se mogu otvarati, uključujući pripadajući okov – 5. dio: Otpornost na požar zaokretnih staklenih vrata s metalnim dovratnikom i prozora koji se mogu otvarati (EN 15269-5:2014+A1:2016)

Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 5: Fire resistance of hinged and pivoted metal framed glazed doorsets and openable windows (EN 15269-5:2014+A1:2016)

**HNZ/TO 108, Mehaničke vibracije i udari****HRN EN ISO 10326-1:2016 en pr**

Mehaničke vibracije – Laboratorijska metoda za procjenu vibracija na sjedalu vozila – 1. dio: Osnovni zahtjevi (ISO 10326-1:2016; EN ISO 10326-1:2016)

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements (ISO 10326-1:2016; EN ISO 10326-1:2016)

**HNZ/TO 121, Anestetička i respiracijska oprema****HRN EN ISO 5366:2016 en pr**

Anestetička i respiracijska oprema – Traheostomijske cijevi (ISO 5366:2016; EN ISO 5366:2016)

Anaesthetic and respiratory equipment – Tracheostomy tubes (ISO 5366:2016; EN ISO 5366:2016)

**HRN EN ISO 19054:2008/A1:2016 en pr**

Pružni sustavi za učvršćenje medicinskih uređaja (ISO 19054:2005/Amd 1:2016; EN ISO 19054:2006/A1:2016)

Rail systems for supporting medical equipment (ISO 19054:2005/Amd 1:2016; EN ISO 19054:2006/A1:2016)

## **HN/T0 126, *Duhan i duhanski proizvodi***

**HRN ISO 10362-1:2004/A1:2016 en pr**

Cigarette – Određivanje vode u dimnom kondenzatu – 1. dio: Metoda plinske kromatografije  
(ISO 10362-1:1999/Amd 1:2011)

Cigarettes – Determination of water in smoke condensates – Part 1: Gas-chromatographic method  
(ISO 10362-1:1999/Amd 1:2011)

**HRN ISO 15152:2004/A1:2016 en pr**

Duhan – Određivanje udjela ukupnih alkaloida kao nikotina – Metoda analize kontinuirnog toka  
(ISO 15152:2003/Amd 1:2012)

Tobacco – Determination of the content of total alkaloids as nicotine – Continuous-flow analysis method  
(ISO 15152:2003/Amd 1:2012)

**HRN ISO 15153:2004/A1:2016 en pr**

Duhan – Određivanje udjela reducirajućih tvari – Metoda analize kontinuirnog toka  
(ISO 15153:2003/Amd 1:2012)

Tobacco – Determination of the content of reducing substances – Continuous-flow analysis method  
(ISO 15153:2003/Amd 1:2012)

**HRN ISO 15154:2004/A1:2016 en pr**

Duhan – Određivanje udjela reducirajućih ugljikohidrata – Metoda analize kontinuirnog toka  
(ISO 15154:2003/Amd 1:2012)

Tobacco – Determination of the content of reducing carbohydrates – Continuous-flow analysis method  
(ISO 15154:2003/Amd 1:2012)

**HRN ISO 15517:2004/A1:2016 en pr**

Duhan – Određivanje udjela nitrata – Metoda analize kontinuirnog toka (ISO 15517:2003/Amd 1:2012)

Tobacco – Determination of nitrate content – Continuous-flow analysis method  
(ISO 15517:2003/Amd 1:2012)

## **HN/T0 134, *Gnojiva i poboljšivači tla***

**HRN EN 12945:2016 en pr**

Tvari za kalcifikaciju – Određivanje neutralizacijske vrijednosti – Titrimetrijske metode  
(EN 12945:2014+A1:2016)

Liming materials – Determination of neutralizing value – Titrimetric methods  
(EN 12945:2014+A1:2016)

## **HN/T0 136, *Namještaj***

**HRN EN 527-2:2016 enpr**

Uredski namještaj – Uredski radni stolovi – 2. dio: Zahtjevi za čvrstoću, trajnost i sigurnost  
(EN 527-2:2016)

Office furniture – Work tables – Part 2: Strength, durability and safety requirements (EN 527-2:2016)

**HRN EN 12727:2016 en pr**

Namještaj – Sjedala spojena u redove – Zahtjevi za sigurnost, čvrstoću i trajnost (EN 12727:2016)  
Furniture – Ranked seating – Requirements for safety, strength and durability (EN 12727:2016)

**HRN EN 15372:2016 en pr**

Namještaj – Čvrstoća, trajnost i sigurnost – Zahtjevi za stolove koji nisu za kućnu uporabu  
(EN 15372:2016)

Furniture – Strength, durability and safety – Requirements for non-domestic tables (EN 15372:2016)

## **HN/T0 145, Grafički simboli**

### **HRN EN ISO 7010:2013/A6:2016 en pr**

Grafički simboli – Boje i znakovi sigurnosti – Registrirani znakovi sigurnosti

(ISO 7010:2011/Amd 6:2014; EN ISO 7010:2012/A6:2016)

Graphical symbols – Safety colours and safety signs – Registered safety signs

(ISO 7010:2011/Amd 6:2014; EN ISO 7010:2012/A6:2016)

## **HN/T0 146, Kvaliteta zraka**

### **HRN EN 15051-2:2016 en pr**

Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala – 2. dio: Metoda rotirajućega bubnja (EN 15051-2:2013+A1:2016)

Workplace exposure – Measurement of the dustiness of bulk materials – Part 2: Rotating drum method (EN 15051-2:2013+A1:2016)

### **HRN CEN/TS 16645:2016 en pr**

Vanjski zrak – Metoda za mjerjenje benzo[a]antracena, benzo[b]fluorantena, benzo[j]fluorantena, benzo[k]fluorantena, dibenzo[a,h]antracena, indeno[1,2,3-cd]pirena i benzo[ghi]perilena (CEN/TS 16645:2014)

Ambient air – Method for the measurement of benz[a]anthracene, benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene and benzo[ghi]perylene (CEN/TS 16645:2014)

### **HRN EN 16841-1:2016 en pr**

Vanjski zrak – Određivanje mirisa u vanjskom zraku ispitivanjem na terenu – 1. dio: Ispitivanja u točkama mreže (EN 16841-1:2016)

Ambient air – Determination of odour in ambient air by using field inspection – Part 1: Grid method (EN 16841-1:2016)

### **HRN EN 16841-2:2016 en pr**

Vanjski zrak – Određivanje mirisa u vanjskom zraku ispitivanjem na terenu – 2. dio: Ispitivanje duž perjanice (EN 16841-2:2016)

Ambient air – Determination of odour in ambient air by using field inspection – Part 2: Plume method (EN 16841-2:2016)

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

### **HRN ISO 5667-4:2016 en pr**

Kvaliteta vode – Uzorkovanje – 4. dio: Upute za uzorkovanje vode prirodnih i umjetnih jezera (ISO 5667-4:2016)

Water quality – Sampling – Part 4: Guidance on sampling from lakes, natural and man-made (ISO 5667-4:2016)

### **HRN EN ISO 10253:2016 en pr**

Kvaliteta vode – Ispitivanje inhibicije rasta morskih algi Skeletonema sp. i Phaeodactylum tricornutum (ISO 10253:2016; EN ISO 10253:2016)

Water quality – Marine algal growth inhibition test with Skeletonema sp. and Phaeodactylum tricornutum (ISO 10253:2016; EN ISO 10253:2016)

## **HN/T0 163, Toplinska izolacija**

### **HRN EN 13163:2016 en pr**

Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspandiranog polistirena (EPS) – Specifikacija (EN 13163:2012+A2:2016)

Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification (EN 13163:2012+A2:2016)

## **HN/T0 172, Optika i optički instrumenti**

### **HRN EN ISO 10938:2016 en pr**

Oftamološka optika – Optotipovi za mjerjenje oštine vida – Tiskani, projicirani i elektronski (ISO 10938:2016; EN ISO 10938:2016)  
Ophthalmic optics – Chart displays for visual acuity measurement – Printed, projected and electronic (ISO 10938:2016; EN ISO 10938:2016)

### **HRN EN ISO 11381:2016 en pr**

Oftamološka optika – Okviri za naočale – Navozi vijaka (ISO 11381:2016; EN ISO 11381:2016)  
Ophthalmic optics – Spectacle frames – Screw threads (ISO 11381:2016; EN ISO 11381:2016)

## **HN/T0 178, Dizala, pokretnе stube i pokretnе trake za osobe**

### **HRN EN 1570-2:2016 en pr**

Sigurnosni zahtjevi za podizne platforme – 2. dio: Podizne platforme za opsluživanje više od 2 stanice, za dizanje tereta s vertikalnom brzinom koja ne prelazi 0,15 m/s (EN 1570-2:2016)  
Safety requirements for lifting tables – Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s (EN 1570-2:2016)

## **HN/T0 179, Zidane konstrukcije**

### **HRN EN 998-1:2016 enpr**

Specifikacija morta za zidje – 1. dio: Vanjska i unutarnja žbuka (EN 998-1:2016)  
Specification for mortar for masonry – Part 1: Rendering and plastering mortar (EN 998-1:2016)

### **HRN EN 998-2:2016 enpr**

Specifikacija morta za zidje – 2. dio: Mort za zidje (EN 998-2:2016)  
Specification for mortar for masonry – Part 2: Masonry mortar (EN 998-2:2016)

## **HN/T0 182, Geotehničke konstrukcije**

### **HRN EN ISO 17892-4:2016 en pr**

Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 4. dio: Određivanje granulometrijskog sastava (ISO 17892-4:2016; EN ISO 17892-4:2016)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 4: Determination of particle size distribution (ISO 17892-4:2016; EN ISO 17892-4:2016)

### **HRN EN ISO 18674-2:2016 en pr**

Geotehničko istraživanje i ispitivanje – Geotehničko opažanje terenskom mjernom opremom – 2. dio: Mjerenje pomaka duž linije: Ekstenzometri (ISO 18674-2:2016; EN ISO 18674-2:2016)  
Geotechnical investigation and testing – Geotechnical monitoring by field instrumentation – Part 2: Measurement of displacements along a line: Extensometers (ISO 18674-2:2016; EN ISO 18674-2:2016)

## **HN/T0 215, Medicinska informatika**

### **HRN EN ISO 11073-10418:2014/Ispr.1:2016 en pr**

Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 10418. dio: Specijalni uređaji – Uredaj za određivanje protrombinskog vremena (PV-a) (ISO/IEEE 11073-10418:2014/Cor 1:2016; EN ISO 11073-10418:2014/AC:2016)  
Health informatics – Personal health device communication – Part 10418: Device specialization – International Normalized Ratio (INR) monitor (ISO/IEEE 11073-10418:2014/Cor 1:2016; EN ISO 11073-10418:2014/AC:2016)

## **HNZ/TO 218, Drvo**

### **HRN/CEN/TS 16663:2016 en pr**

Trajinost drva i proizvoda na osnovi drva – Utvrđivanje emisija obrađenog drva u okoliš – Drveni elementi u trećoj klasi uporabivosti (nenatkriveni, bez doticaja sa tlom) – Semi-field metoda (CEN/TS 16663:2016)

Durability of wood and wood-based products – Determination of emissions from preservative treated wood to the environment – Wooden commodities exposed in Use Class 3 (Not covered, not in contact with the ground) – Semi-field method (CEN/TS 16663:2016)

## **HNZ/TO 221, Geosintetici**

### **HRN/EN 13249:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji cesta i ostalih prometnih površina (izuzimaju se željeznice i asfaltne slojeve) (EN 13249:2016)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion) (EN 13249:2016)

### **HRN/EN 13250:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji željeznica (EN 13250:2016)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of railways (EN 13250:2016)

### **HRN/EN 13251:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izvođenju zemljanih radova, temelja i potpornih konstrukcija (EN 13251:2016)

Geotextiles and geotextile-related products – Characteristics required for use in earthworks, foundations and retaining structures (EN 13251:2016)

### **HRN/EN 13252:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu u drenažnim sustavima (EN 13252:2016)

Geotextiles and geotextile-related products – Characteristics required for use in drainage systems (EN 13252:2016)

### **HRN/EN 13253:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu u zaštiti od erozije (zaštita obale, obaloutvrde) (EN 13253:2016)

Geotextiles and geotextile-related products – Characteristics required for use in erosion control works (coastal protection, bank revetments) (EN 13253:2016)

### **HRN/EN 13254:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji akumulacijskih jezera i brana (EN 13254:2016)

Geotextiles and geotextile-related products – Characteristics required for the use in the construction of reservoirs and dams (EN 13254:2016)

### **HRN/EN 13255:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji kanala (EN 13255:2016)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of canals (EN 13255:2016)

### **HRN/EN 13256:2016 en pr**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji tunela i podzemnih građevina (EN 13256:2016)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of tunnels and underground structures (EN 13256:2016)

**HRN EN 13257:2016** en pr  
Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima krutog otpada (EN 13257:2016)  
Geotextiles and geotextile-related documents – Characteristics required for use in solid waste disposals (EN 13257:2016)

**HRN EN 13265:2016** en pr  
Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu u projektima zbrinjavanja tekućeg otpada (EN 13265:2016)  
Geotextiles and geotextile-related products – Characteristics required for use in liquid waste containment projects (EN 13265:2016)

## **HNZ/TO 502, Plinski uređaji**

**HRN EN 13203-4:2016** en pr  
Kućanski plinski uređaji za grijanje vode – 4. dio: Ocjenjivanje potrošnje energije uređaja s kombinacijom plina i električne energije koji proizvode toplu vodu i električnu energiju (EN 13203-4:2016)  
Gas-fired domestic appliances producing hot water – Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity (EN 13203-4:2016)

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

**HRN EN ISO 148-1:2016** en pr  
Metalni materijali – Ispitivanje udarnog rada loma Charpyjevim batom – 1. dio: Metoda ispitivanja (ISO 148-1:2016; EN ISO 148-1:2016)  
Metallic materials – Charpy pendulum impact test – Part 1: Test method (ISO 148-1:2016; EN ISO 148-1:2016)

**HRN EN ISO 148-2:2016** en pr  
Metalni materijali – Ispitivanje udarnog rada loma Charpyjevim batom – 2. dio: Provjeravanje ispitnih uređaja (ISO 148-2:2016; EN ISO 148-2:2016)  
Metallic materials – Charpy pendulum impact test – Part 2: Verification of testing machines (ISO 148-2:2016; EN ISO 148-2:2016)

**HRN EN ISO 148-3:2016** en pr  
Metalni materijali – Ispitivanje udarnog rada loma Charpyjevim batom – 3. dio: Priprema i karakterizacija Charpyjevih ispitnih uzoraka s V-zarezom za indirektnu provjeru uređaja s batom udarnog rada loma (ISO 148-3:2016; EN ISO 148-3:2016)  
Metallic materials – Charpy pendulum impact test – Part 3: Preparation and characterization of Charpy V-notch test pieces for indirect verification of pendulum impact machines (ISO 148-3:2016; EN ISO 148-3:2016)

**HRN EN 754-2:2016** en pr  
Aluminij i aluminijeve legure – Hladno vučene šipke i cijevi – 2. dio: Mehanička svojstva (EN 754-2:2016)  
Aluminium and aluminium alloys – Cold drawn rod/bar and tube – Part 2: Mechanical properties (EN 754-2:2016)

**HRN EN 1412:2016** en pr  
Bakar i legure bakra – Evropski sustav obrojčivanja (EN 1412:2016)  
Copper and copper alloys – European numbering system (EN 1412:2016)

**HRN EN ISO 3928:2016** en pr  
Sinterirani metalni materijali, osim tvrdih metala – Dijelovi za ispitivanje dinamičke izdržljivosti (ISO 3928:2016; EN ISO 3928:2016)  
Sintered metal materials, excluding hardmetals – Fatigue test pieces (ISO 3928:2016; EN ISO 3928:2016)

**HRN EN 10027-1:2016 en pr**

Sustavi označivanja za čelike – 1. dio: Nazivi čelika (EN 10027-1:2016)  
Designation systems for steels – Part 1: Steel names (EN 10027-1:2016)

**HRN EN 10205:2016 en pr**

Proizvodi iz hladno valjanog pokositrenog lima – Crni lim (EN 10205:2016)  
Cold reduced tinmill products – Blackplate (EN 10205:2016)

**HRN EN 12020-2:2016 en pr**

Aluminij i aluminijeve legure – Istisnuti precizni profili od legura EN AW-6060 i EN AW-6063 – 2. dio:  
Dopuštena odstupanja dimenzija i oblika (EN 12020-2:2016)  
Aluminium and aluminium alloys – Extruded precision profiles in alloys EN AW-6060 and EN AW-6063  
– Part 2: Tolerances on dimensions and form (EN 12020-2:2016)

**HRN EN ISO 14577-4:2016 en pr**

Metalni materijali – Instrumentirano ispitivanje utiskivanjem za određivanje tvrdoće i parametara  
materijala – 4. dio: Metoda ispitivanja za metalne i nemetalne prevlake (ISO 14577-4:2016;  
EN ISO 14577-4:2016)

Metallic materials – Instrumented indentation test for hardness and materials parameters – Part 4:  
Test method for metallic and non-metallic coatings (ISO 14577-4:2016; EN ISO 14577-4:2016)

**HNZ/TO 504, Korozija i zaštita metala i legura****HRN EN ISO 19598:2016 en pr**

Metalne prevlake – Elektroplatirane prevlake cinka i legura cinka na željezu ili čeliku naknadnom  
obradom bez CR(VI) (ISO 19598:2016; EN ISO 19598:2016)  
Metallic coatings – Electroplated coatings of zinc and zinc alloys on iron or steel with supplementary  
Cr(VI)-free treatment (ISO 19598:2016; EN ISO 19598:2016)

**HNZ/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin  
i geotermalnu vodu****HRN EN ISO 6978-2:2008/Ispr.1:2016 en pr**

Prirodni plin – Određivanje žive – 2. dio: Uzorkovanje žive amalgamiranjem na zlatnu/platinsku slitinu  
(ISO 6978-2:2003/Cor 2:2006; EN ISO 6978-2:2005/AC:2016)  
Natural gas – Determination of mercury – Part 2: Sampling of mercury by amalgamation on  
gold/platinum alloy (ISO 6978-2:2003/Cor 2:2006; EN ISO 6978-2:2005/AC:2016)

**HRN EN ISO 14224:2016 en pr**

Industrija nafte, petrokemije i prirodnoga plina – Prikupljanje i razmjena podataka o pouzdanosti i  
održavanju opreme (ISO 14224:2016, ispravljena verzija 2016-10-01; EN ISO 14224:2016)  
Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and  
maintenance data for equipment (ISO 14224:2016, Corrected version 2016-10-01;  
EN ISO 14224:2016)

**HRN EN ISO 16440:2016 en pr**

Industrija nafte i prirodnoga plina – Sustavi transporta cjevovodima – Projektiranje, izvedba i  
održavanje čeličnih zaštitnih cjevovoda (ISO 16440:2016; EN ISO 16440:2016)  
Petroleum and natural gas industries – Pipeline transportation systems – Design, construction and  
maintenance of steel cased pipelines (ISO 16440:2016; EN ISO 16440:2016)

**HNZ/TO 513, Mjerne jedinice i mjerila****HRN EN 16836-1:2016 en pr**

Komunikacijski sustavi za mjerila – Bežična mesh mreža za razmjenu podataka mjerjenja – 1. dio:  
Uvod i okvir normizacije (EN 16836-1:2016)  
Communication systems for meters – Wireless mesh networking for meter data exchange – Part 1:  
Introduction and standardization framework (EN 16836-1:2016)

**HRN EN 16836-2:2016 en pr**

Komunikacijski sustavi za mjerila – Bežična mesh mreža za razmjenu podataka mjerjenja – 2. dio:

Razina umrežavanja i specifikacija povezivanja (EN 16836-2:2016)

Communication systems for meters – Wireless mesh networking for meter data exchange – Part 2: Networking layer and stack specification (EN 16836-2:2016)

**HRN EN 16836-3:2016 en pr**

Komunikacijski sustavi za mjerila – Bežična mesh mreža za razmjenu podataka mjerjenja – 3. dio:

Specifikacija energijskog profila za dodijeljenu razinu primjene (EN 16836-3:2016)

Communication systems for meters – Wireless mesh networking for meter data exchange – Part 3: Energy profile specification dedicated application layer (EN 16836-3:2016)

**HZN/TO 518, *Podovi, stropovi i zidne obloge*****HRN EN 233:2016 en pr**

Zidni pokrovi u rolama – Specifikacija za završne zidne pokrove od papira, vinila i plastike (EN 233:2016)

Wallcoverings in roll form – Specification for finished wallpapers, wall vinyls and plastics wallcoverings (EN 233:2016)

**HZN/TO 524, *Inteligentni transportni sustavi*****HRN EN ISO 13140-1:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom ISO 13141 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO 13140-1:2016; EN ISO 13140-1:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO 13141 – Part 1: Test suite structure and test purposes (ISO 13140-1:2016; EN ISO 13140-1:2016)

**HRN EN ISO 13140-2:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom EN ISO 13141 – 2. dio: Sažetak ispitnog paketa (ISO 13140-2:2016; EN ISO 13140-2:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN ISO 13141 – Part 2: Abstract test suite (ISO 13140-2:2016; EN ISO 13140-2:2016)

**HRN EN ISO 13143-1:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom ISO 12813 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO 13143-1:2016; EN ISO 13143-1:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO 12813 – Part 1: Test suite structure and test purposes (ISO 13143-1:2016; EN ISO 13143-1:2016)

**HRN EN ISO 13143-2:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s tehničkom specifikacijom EN ISO/TS 12813 – 2. dio: Sažetak ispitnog paketa (ISO 13143-2:2016; EN ISO 13143-2:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN ISO/TS 12813 – Part 2: Abstract test suite (ISO 13143-2:2016; EN ISO 13143-2:2016)

**HRN EN 15876-1:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom EN 15509 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (EN 15876-1:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 1: Test suite structure and test purposes (EN 15876-1:2016)

**HRN EN 15876-2:2016 en pr**

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom EN 15509 – 2. dio: Sažetak ispitnog paketa (EN 15876-2:2016)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 2: Abstract test suite (EN 15876-2:2016)

**HR S CEN/TS 16986:2016 en pr**

Elektronička naplata – Interoperabilni aplikacijski profil za razmjenu podataka između pružanja usluge i naplate cestarine (CEN/TS 16986:2016)  
Electronic Fee Collection – Interoperable application profiles for information exchange between Service Provision and Toll Charging (CEN/TS 16986:2016)

**HZN/TO 526, Bitumenska veziva****HRN EN 13075-1:2016 en pr**

Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 1. dio: Određivanje vrijednosti raspada kationskih bitumenskih emulzija, metoda s mineralnim punilom (EN 13075-1:2016)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method (EN 13075-1:2016)

**HRN EN 13075-2:2016 en pr**

Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 2. dio: Određivanje vremena umješavanja punila u kationske bitumenske emulzije (EN 13075-2:2016)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 2: Determination of fines mixing time of cationic bituminous emulsions (EN 13075-2:2016)

**HRN EN 13587:2016 en pr**

Bitumen i bitumenska veziva – Određivanje vlačnih svojstava bitumenskih veziva metodom rastezanja (EN 13587:2016)  
Bitumen and bituminous binders – Determination of the tensile properties of bituminous binders by the tensile test method (EN 13587:2016)

**HRN EN 16849:2016 en pr**

Bitumen i bitumenska veziva – Određivanje udjela vode u bitumenskim emulzijama – Metoda vlagomjerom (EN 16849:2016)  
Bitumen and bituminous binders – Determination of water content in bituminous emulsions – Method using a drying balance (EN 16849:2016)

**HZN/TO 528, Oprema za željeznice****HRN EN 14198:2016 en pr**

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

**HRN EN 15153-1:2016 en pr**

Željeznički sustav – Uređaji za vanjska vizualna i zvučna upozorenja za vlakove – 1. dio: Glavna i pozicijska svjetla i završni signali (EN 15153-1:2013+A1:2016)  
Railway applications – External visible and audible warning devices for trains – Part 1: Head, marker and tail lamps (EN 15153-1:2013+A1:2016)

**HRN EN 15273-1:2016 en pr**

Željeznički sustav – Profili – 1. dio: Općenito – Zajednička pravila za infrastrukturu i željeznička vozila (EN 15273-1:2013+A1:2016)  
Railway applications – Gauges – Part 1: General – Common rules for infrastructure and rolling stock (EN 15273-1:2013+A1:2016)

**HRN EN 15273-2:2016 en pr**

Željeznički sustav – Profili – 2. dio: Profil željezničkih vozila (EN 15273-2:2013+A1:2016)  
Railway applications – Gauges – Part 2: Rolling stock gauge (EN 15273-2:2013+A1:2016)

**HRN EN 15273-3:2016 en pr**

Željeznički sustav – Profili – 3. dio: Slobodni profili (EN 15273-3:2013+A1:2016)  
Railway applications – Gauges – Part 3: Structure gauges (EN 15273-3:2013+A1:2016)

**HRN EN 16241:2016 en pr**

Željeznički sustav – Regulator kočnog polužja (EN 16241:2014+A1:2016)  
Railway applications – Slack adjuster (EN 16241:2014+A1:2016)

**HRN EN 16704-2-1:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Sigurnosna zaštita na kolosijeku tijekom radova – Dio 2-1: Uobičajena rješenja i tehnologija – Tehnički zahtjevi za kolosiječne sustave upozoravanja (EN 16704-2-1:2016)  
Railway applications – Track – Safety protection on the track during work – Part 2-1: Common solutions and technology – Technical requirements for Track Warning Systems (TWS) (EN 16704-2-1:2016)

**HRN EN 16704-2-2:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Sigurnosna zaštita na kolosijeku tijekom radova – Dio 2-2: Uobičajena rješenja i tehnologija – Zahtjevi za sigurnosne ograde (EN 16704-2-2:2016)  
Railway applications – Track – Safety protection on the track during work – Part 2-2: Common solutions and technology – Requirements for barriers (EN 16704-2-2:2016)

**HRN EN 16704-3:2016 en pr**

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

**HRN EN 16725:2016 en pr**

Željeznički sustav – Željeznički gornji ustroj – Obnavljanje i popravak srišta od mangana (EN 16725:2016)  
Railway applications – Track – Restoration and repair of manganese crossings (EN 16725:2016)

**HRN EN 16771:2016 en pr**

Željeznički sustav – Infrastruktura – Aluminotermijsko zavarivanje žlebastih tračnica (EN 16771:2016)  
Railway applications – Infrastructure – Aluminothermic welding of grooved rails (EN 16771:2016)

**HZN/TO 531, *Plastika i guma*****HRN EN ISO 1043-3:2016 en pr**

Plastika – Simboli i skraćeni nazivi – 3. dio: Omekšavala (ISO 1043-3:2016; EN ISO 1043-3:2016)  
Plastics – Symbols and abbreviated terms – Part 3: Plasticizers (ISO 1043-3:2016; EN ISO 1043-3:2016)

**HRN EN ISO 1401:2016 en pr**

Gumena crijeva za poljoprivredne prskalice (ISO 1401:2016; EN ISO 1401:2016)  
Rubber hoses for agricultural spraying (ISO 1401:2016; EN ISO 1401:2016)

**HRN EN ISO 2398:2016 en pr**

Gumena crijeva za stlačeni zrak ojačana tekstilom – Specifikacija (ISO 2398:2016; EN ISO 2398:2016)  
Rubber hoses, textile-reinforced, for compressed air – Specification (ISO 2398:2016; EN ISO 2398:2016)

**HRN EN ISO 7233:2016 en pr**

Gumena i plastična crijeva i crijevni uređaji – Određivanje podtlačne čvrstoće (ISO 7233:2016; EN ISO 7233:2016)  
Rubber and plastics hoses and hose assemblies – Determination of resistance to vacuum (ISO 7233:2016; EN ISO 7233:2016)

**HRN EN ISO 7326:2016 en pr**

Gumena i plastična crijeva – Procjena postojanosti na ozon pri statičkim uvjetima (ISO 7326:2016; EN ISO 7326:2016)

Rubber and plastics hoses – Assessment of ozone resistance under static conditions (ISO 7326:2016; EN ISO 7326:2016)

**HRN EN ISO 7751:2016 en pr**

Gumena i plastična crijeva i crijevni sklopovi – Omjeri ispitnih tlakova i tlakova do prsnuća za određivanje maksimalnog radnog tlaka (ISO 7751:2016; EN ISO 7751:2016)

Rubber and plastics hoses and hose assemblies – Ratios of proof and burst pressure to maximum working pressure (ISO 7751:2016; EN ISO 7751:2016)

**HRN EN ISO 8331:2016 en pr**

Gumena i plastična crijeva i crijevni sklopovi – Smjernice za odabir, skladištenje, uporabu i održavanje (ISO 8331:2016; EN ISO 8331:2016)

Rubber and plastics hoses and hose assemblies – Guidelines for selection, storage, use and maintenance (ISO 8331:2016; EN ISO 8331:2016)

**HRN EN ISO 11357-1:2016 en pr**

Plastika – Diferencijalna pretražna kalorimetrija (DSC) – 1. dio: Opća načela (ISO 11357-1:2016; EN ISO 11357-1:2016)

Plastics – Differential scanning calorimetry (DSC) – Part 1: General principles (ISO 11357-1:2016; EN ISO 11357-1:2016)

**HRN EN ISO 11469:2016 en pr**

Plastika – Opća identifikacija i označivanje plastičnih proizvoda (ISO 11469:2016; EN ISO 11469:2016)

Plastics – Generic identification and marking of plastics products (ISO 11469:2016; EN ISO 11469:2016)

**HRN EN ISO 15512:2016 en pr**

Plastika – Određivanje sadržaja vode (ISO 15512:2016; EN ISO 15512:2016)

Plastics – Determination of water content (ISO 15512:2016; EN ISO 15512:2016)

**HRN EN 15701:2016 en pr**

Plastika – Plastomerni plaštevi za izoliranje građevinske opreme i industrijskih instalacija – Zahtjevi i metode ispitivanja (EN 15701:2016)

Plastics – Thermoplastic jackets for insulation products for building equipment and industrial installations – Requirements and test methods (EN 15701:2016)

**HZN/TO 534, Spremnići za teret****HRN EN 12642:2016 en pr**

Osiguranje tereta na cestovnim vozilima – Konstrukcija postolja gospodarskih vozila – Minimalni zahtjevi (EN 12642:2016)

Securing of cargo on road vehicles – Body structure of commercial vehicles – Minimum requirements (EN 12642:2016)

**HRN EN ISO 17268:2016 en pr**

Priklučni uređaji za punjenje gorivom terenskih vozila na tekući vodik (ISO 17268:2012; EN ISO 17268:2016)

Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2012; EN ISO 17268:2016)

**HRN EN ISO 21028-1:2016 en pr**

Kriogenične posude – Zahtjevi za žilavost za materijale pri niskim temperaturama – 1. dio: Temperature ispod - 80 °C (ISO 21028-1:2016; EN ISO 21028-1:2016)

Cryogenic vessels – Toughness requirements for materials at cryogenic temperature – Part 1: Temperatures below - 80 °C (ISO 21028-1:2016; EN ISO 21028-1:2016)

## **HN/T 536, Vrata, prozori i staklo u graditeljstvu**

**HRN EN 16477-1:2016** en pr

Staklo u graditeljstvu – Obojeno staklo za unutarnju primjenu – 1. dio: Zahtjevi (EN 16477-1:2016)  
Glass in building – Painted glass for internal use – Part 1: Requirements (EN 16477-1:2016)

## **HN/T 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija**

**HRN EN ISO 10360-12:2016** en pr

Geometrijske specifikacije proizvoda (GSP) – Testovi za prihvatljivost i naknadnu provjeru trokoordinatnih mjernih sustava (TMS) – 12. dio: Trokoordinatni mjerni uređaji (TMU) sa zglobnim rukama (ISO 10360-12:2016; EN ISO 10360-12:2016)

Geometrical Product Specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 12: Articulated arm coordinate measurement machines (CMM) (ISO 10360-12:2016; EN ISO 10360-12:2016)

**HRN EN ISO 16610-31:2016** en pr

Geometrijske specifikacije proizvoda (GSP) – Filtriranje – 31. dio: Robusni profilni filtri – Gaussovi regresijski filtri (ISO 16610-31:2016; EN ISO 16610-31:2016)

Geometrical product specifications (GPS) – Filtration – Part 31: Robust profile filters: Gaussian regression filters (ISO 16610-31:2016; EN ISO 16610-31:2016)

**HRN EN ISO 18391:2016** en pr

Geometrijske specifikacije proizvoda (GSP) – Specifikacija populacije (ISO 18391:2016; EN ISO 18391:2016)

Geometrical product specification (GPS) – Population specification (ISO 18391:2016; EN ISO 18391:2016)

## **HN/T 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**

**HRN EN 16282-2:2016** en pr

Oprema za profesionalne kuhinje – Komponente za ventilaciju u profesionalnim kuhinjama – 2. dio: Kuhinjske ventilacijske nape, projektiranje i sigurnosni zahtjevi (EN 16282-2:2016)

Equipment for commercial kitchens – Components for ventilation of commercial kitchens – Part 2: Kitchen ventilation hoods, design and safety requirements (EN 16282-2:2016)

**HRN EN 16282-3:2016** en pr

Oprema za profesionalne kuhinje – Komponente za ventilaciju u profesionalnim kuhinjama – 3. dio: Kuhinjski ventilacijski stropovi, projektiranje i sigurnosni zahtjevi (EN 16282-3:2016)

Equipment for commercial kitchens – Components for ventilation in commercial kitchens – Part 3: Kitchen ventilation ceilings, Design and safety requirements (EN 16282-3:2016)

**HRN EN 16282-4:2016** en pr

Oprema za profesionalne kuhinje – Komponente za ventilaciju u profesionalnim kuhinjama – 4. dio: Usis i otsis zraka, projektiranje i sigurnosni zahtjevi (EN 16282-4:2016)

Equipment for commercial kitchens – Components for ventilation in commercial kitchens – Part 4: Air inlets and outlets, Design and safety requirements (EN 16282-4:2016)

**HRN EN ISO 16890-1:2016** en pr

Zračni filtri za opću ventilaciju – 1. dio: Tehničke specifikacije, zahtjevi i sustav razredbe na temelju učinkovitosti odvajanja čestica (PM) (ISO 16890-1:2016; EN ISO 16890-1:2016)

Air filters for general ventilation – Part 1: Technical specifications, requirements and classification system based upon particulate matter efficiency (ePM) (ISO 16890-1:2016; EN ISO 16890-1:2016)

**HRN EN ISO 16890-2:2016 en pr**

Zračni filtri za opću ventilaciju – 2. dio: Mjerenje frakcijske učinkovitosti i otpora strujanju zraka

(ISO 16890-2:2016; EN ISO 16890-2:2016)

Air filters for general ventilation – Part 2: Measurement of fractional efficiency and air flow resistance  
(ISO 16890-2:2016; EN ISO 16890-2:2016)

**HRN EN ISO 16890-3:2016 en pr**

Zračni filtri za opću ventilaciju – 3. dio: Određivanje gravimetrijske učinkovitosti i otpora strujanju zraka u ovisnosti o prikupljenoj masi ispitne prašine (ISO 16890-3:2016; EN ISO 16890-3:2016)

Air filters for general ventilation – Part 3: Determination of the gravimetric efficiency and the air flow resistance versus the mass of test dust captured (ISO 16890-3:2016; EN ISO 16890-3:2016)

**HRN EN ISO 16890-4:2016 en pr**

Zračni filtri za opću ventilaciju – 4. dio: Metoda kondicioniranja za određivanje minimalne frakcijske učinkovitosti (ISO 16890-4:2016; EN ISO 16890-4:2016)

Air filters for general ventilation – Part 4: Conditioning method to determine the minimum fractional test efficiency (ISO 16890-4:2016; EN ISO 16890-4:2016)

**HZN/TO 546, Očuvanje kulturne baštine****HRN EN 16873:2016 en pr**

Zaštita kulturne baštine – Smjernice za održavanje vlažnog drva na kopnenim arheološkim lokalitetima (EN 16873:2016)

Conservation of cultural heritage – Guidelines for the management of waterlogged wood on archaeological terrestrial sites (EN 16873:2016)

**HZN/TO 550, Opskrba vodom****HRN EN 13618:2016 en pr**

Sklopovi od fleksibilnih crijeva u instalacijama za pitku vodu – Funkcionalni zahtjevi i metode ispitivanja (EN 13618:2016)

Flexible hose assemblies in drinking water installations – Functional requirements and test methods (EN 13618:2016)

**HZN/TO 551, Gradnja****HRI CEN/TR 16970:2016 en pr**

Održivost građevina – Smjernice za primjenu norme EN 15804 (CEN/TR 16970:2016)

Sustainability of construction works – Guidance for the implementation of EN 15804 (CEN/TR 16970:2016)

**HRI CEN/TR 17005:2016 en pr**

Održivost građevina – Dodatne kategorije i pokazatelji utjecaja na okoliš – Popratne informacije i mogućnosti – Procjena mogućnosti dodavanja kategorija utjecaja na okoliš i povezanih pokazatelja te metode proračuna za ocjenjivanje svojstava građevina s obzirom na okoliš (CEN/TR 17005:2016)

Sustainability of construction works – Additional environmental impact categories and indicators – Background information and possibilities – Evaluation of the possibility of adding environmental impact categories and related indicators and calculation methods for the assessment of the environmental performance of buildings (CEN/TR 17005:2016)

**HZN/TO 552, Društvena odgovornost****HRN ISO 37001:2016 en pr**

Sustavi upravljanja za suzbijanje podmićivanja – Zahtjevi s uputama za uporabu (ISO 37001:2016)

Anti-bribery management systems – Requirements with guidance for use (ISO 37001:2016)

## **HN/T 553, *Predgotovljeni proizvodi***

### **HRN EN ISO 10545-13:2016 en pr**

Keramičke pločice – 13. dio: Određivanje otpornosti na kemikalije (ISO 10545-13:2016; EN ISO 10545-13:2016)

Ceramic tiles – Part 13: Determination of chemical resistance (ISO 10545-13:2016; EN ISO 10545-13:2016)

## **HN/T 555, *Medicinski proizvodi***

### **HRN EN ISO 15223-1:2016 en pr**

Medicinski proizvodi – Simboli za upotrebu u označivanju medicinskih proizvoda i informacijama uz medicinske proizvode – 1. dio: Opći zahtjevi (ISO 15223-1:2016; EN ISO 15223-1:2016)

Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements (ISO 15223-1:2016; EN ISO 15223-1:2016)

### **HRN EN ISO 22870:2016 en pr**

Pretrage uz bolesnika (POCT) – Zahtjevi za kvalitetu i sposobljenost (ISO 22870:2016; EN ISO 22870:2016)

Point-of-care testing (POCT) – Requirements for quality and competence (ISO 22870:2016; EN ISO 22870:2016)

### **HRN EN 80369-5:2016 en pr**

Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 5. dio: Spojnici za primjenu s manšetama na napuhavanje za udove (IEC 80369-5:2016; EN 80369-5:2016)

Small-bore connectors for liquids and gases in healthcare applications – Part 5: Connectors for limb cuff inflation applications (IEC 80369-5:2016; EN 80369-5:2016)

## **HN/T 557, *Zaštitna odjeća***

### **HRN EN ISO 374-1:2016 en pr**

Rukavice za zaštitu od opasnih kemikalija i mikroorganizama – 1. dio: Nazivlje i zahtjevi za svojstva za kemijske rizike (ISO 374-1:2016; EN ISO 374-1:2016)

Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks (ISO 374-1:2016; EN ISO 374-1:2016)

### **HRN EN ISO 374-5:2016 en pr**

Rukavice za zaštitu od opasnih kemikalija i mikroorganizama – 5. dio: Nazivlje i zahtjevi za svojstva za rizike od mikroorganizama (ISO 374-5:2016; EN ISO 374-5:2016)

Protective gloves against dangerous chemicals and micro-organisms – Part 5: Terminology and performance requirements for micro-organisms risks (ISO 374-5:2016; EN ISO 374-5:2016)

### **HRN EN 388:2016 en pr**

Rukavice za zaštitu od mehaničkih rizika (EN 388:2016)

Protective gloves against mechanical risks (EN 388:2016)

### **HRN EN ISO 9151:2016 en pr**

Odjeća za zaštitu od topline i plamena – Određivanje prolaza topline pri izlaganju plamenu (ISO 9151:2016; EN ISO 9151:2016)

Protective clothing against heat and flame – Determination of heat transmission on exposure to flame (ISO 9151:2016; EN ISO 9151:2016)

### **HRN EN ISO 15025:2016 en pr**

Zaštitna odjeća – Zaštita od plamena – Metoda ispitivanja ograničenog širenja plamena (ISO 15025:2016; EN ISO 15025:2016)

Protective clothing – Protection against flame – Method of test for limited flame spread (ISO 15025:2016; EN ISO 15025:2016)

**HRN EN ISO 20471:2013/A1:2016** en pr  
Upozoravajuća odjeća visoke vidljivosti – Metode ispitivanja i zahtjevi (ISO 20471:2013/Amd 1:2016; EN ISO 20471:2013/A1:2016)  
High visibility clothing – Test methods and requirements (ISO 20471:2013/Amd 1:2016; EN ISO 20471:2013/A1:2016)

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

**HRN EN ISO 4674-1:2016** en pr  
Plošni tekstil naslojen gumom ili plastikom – Određivanje otpornosti na daljnje trganje – 1. dio: Postupci ispitivanja uz konstantnu brzinu istezanja (ISO 4674-1:2016; EN ISO 4674-1:2016)  
Rubber- or plastics-coated fabrics – Determination of tear resistance – Part 1: Constant rate of tear methods (ISO 4674-1:2016; EN ISO 4674-1:2016)

**HRN EN ISO 5470-1:2016** en pr  
Plošni tekstil naslojen gumom ili plastikom – Određivanje otpornosti na habanje – 1. dio: Habalica po Taberu (ISO 5470-1:2016; EN ISO 5470-1:2016)  
Rubber- or plastics-coated fabrics – Determination of abrasion resistance – Part 1: Taber abrader (ISO 5470-1:2016; EN ISO 5470-1:2016)

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

**HRN EN 13445-2:2014/A1:2016** en pr  
Neložene tlačne posude – 2. dio: Materijali (EN 13445-2:2014/A1:2016)  
Unfired pressure vessels – Part 2: Materials (EN 13445-2:2014/A1:2016)

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

**HRN EN ISO 24431:2016** en pr  
Plinske boce – Bešavne, zavarene i kompozitne boce za komprimirane i ukapljene plinove (osim acetilena) – Pregled pri punjenju (ISO 24431:2016; EN ISO 24431:2016)  
Gas cylinders – Seamless, welded and composite cylinders for compressed and liquefied gases (excluding acetylene) – Inspection at time of filling (ISO 24431:2016; EN ISO 24431:2016)

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

**HRN EN ISO 4230:2016** en pr  
Ručne i strojne nareznice za konične cijevne navoje – R serija (ISO 4230:2016; EN ISO 4230:2016)  
Hand- and machine-operated circular screwing dies for taper pipe threads – R series (ISO 4230:2016; EN ISO 4230:2016)

**HRN EN ISO 4231:2016** en pr  
Ručne i strojne nareznice za paralelne cijevne navoje – G serija (ISO 4231:2016; EN ISO 4231:2016)  
Hand- and machine-operated circular screwing dies for parallel pipe threads – G series (ISO 4231:2016; EN ISO 4231:2016)

### **HNZ/TO 564, *Uljarice, biljna i životinjska ulja i masti***

**HRN ISO 27608:2012/A1:2016** en pr  
Životinjske i biljne masti i ulja – Određivanje Lovibond® boje – Automatska metoda (ISO 27608:2010/Amd 1:2016)  
Animal and vegetable fats and oils – Determination of Lovibond® colour – Automatic method (ISO 27608:2010/Amd 1:2016)

## **HN/T 566, *Mlijeko i mliječni proizvodi***

**HRS ISO/TS 11869:2016 en pr**

Fermentirana mlijeka – Određivanje titracijske kiselosti – Potenciometrijska metoda  
(ISO/TS 11869:2012)

Fermented milks – Determination of titratable acidity – Potentiometric method (ISO/TS 11869:2012)

## **HN/T 567, *Meso, proizvodi ribarstva i akvakultura***

**HRN ISO 16488:2016 en pr**

Morska ribogojilišta – Otvoreni mrežni kavezi – Dizajn i način rada (ISO 16488:2015)  
Marine finfish farms – Open net cage – Design and operation (ISO 16488:2015)

**HRN ISO 16541:2016 en pr**

Metode praćenja morskih ušiju u morskim ribogojilištima (ISO 16541:2015)  
Methods for sea lice surveillance on marine finfish farms (ISO 16541:2015)

**HRN ISO 16741:2016 en pr**

Sljedivost rakova – Specifikacije informacija o kojima se moraju voditi zapisi u distribucijskom lancu uzgojenih rakova (ISO 16741:2015)

Traceability of Crustacean products – Specifications on the information to be recorded in farmed crustacean distribution chains (ISO 16741:2015)

**HRN ISO 18537:2016 en pr**

Sljedivost rakova – Specifikacije informacija o kojima se moraju voditi zapisi u distribucijskom lancu izlovljenih rakova (ISO 18537:2015)

Traceability of crustacean products – Specifications on the information to be recorded in captured crustacean distribution chains (ISO 18537:2015)

**HRN ISO 18538:2016 en pr**

Sljedivost mekušaca – Specifikacije informacija o kojima se moraju voditi zapisi u distribucijskom lancu uzgojenih mekušaca (ISO 18538:2015)

Traceability of molluscan products – Specifications on the information to be recorded in farmed molluscan distribution chains (ISO 18538:2015)

**HRN ISO 18539:2016 en pr**

Sljedivost mekušaca – Specifikacije informacija o kojima se moraju voditi zapisi u distribucijskom lancu izlovljenih mekušaca (ISO 18539:2015)

Traceability of molluscan products – Specifications on the information to be recorded in captured molluscan distribution chains (ISO 18539:2015)

## **HN/T 569, *Hrana za životinje***

**HRN ISO 5985:2004/A1:2016 en pr**

Stočna hrana – Određivanje pepela netopljivog u klorovodičnoj kiselini (ISO 5985:2002/Amd 1:2015)  
Animal feeding stuffs – Determination of ash insoluble in hydrochloric acid  
(ISO 5985:2002/Amd 1:2015)

**HRN EN 16877:2016 en pr**

Hrana za životinje – Metode uzorkovanja i analize – Određivanje toksina T-2 i HT-2, deoksinivalenola i zearalenona u krmivima i krmnim smjesama metodom LC-MS (EN 16877:2016)

Animal feeding stuffs – Methods of sampling and analysis – Determination of T-2 and HT-2 toxins, Deoxynivalenol and Zearalenone, in feed materials and compound feed by LC-MS (EN 16877:2016)

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

### **HRN EN 13451-1:2016 en pr**

Oprema za bazene – 1. dio: Opći sigurnosni zahtjevi i metode ispitivanja (EN 13451-1:2011+A1:2016)  
Swimming pool equipment – Part 1: General safety requirements and test methods  
(EN 13451-1:2011+A1:2016)

### **HRN EN 16899:2016 en pr**

Sportska i rekreativska oprema – Oprema za parkour – Sigurnosni zahtjevi i metode ispitivanja  
(EN 16899:2016)  
Sports and recreational equipment – Parkour equipment – Safety requirements and test methods  
(EN 16899:2016)

### **HRN EN ISO 20957-4:2016 en pr**

Nepomična oprema za vježbanje – 4. dio: Klupe za jačanje (benč), dodatni posebni sigurnosni zahtjevi i metode ispitivanja (ISO 20957-4:2016; EN ISO 20957-4:2016)  
Stationary training equipment – Part 4: Strength training benches, additional specific safety requirements and test methods (ISO 20957-4:2016; EN ISO 20957-4:2016)

### **HRN EN ISO 20957-9:2016 en pr**

Nepomična oprema za vježbanje – 9. dio: Sprave za vježbanje s eliptičnim kretanjem, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (ISO 20957-9:2016; EN ISO 20957-9:2016)  
Stationary training equipment – Part 9: Elliptical trainers, additional specific safety requirements and test methods (ISO 20957-9:2016; EN ISO 20957-9:2016)

### **HRN EN ISO 23537-1:2016 en pr**

Zahtjevi za vreće za spavanje – 1. dio: Toplinski zahtjevi i zahtjevi za dimenzije (ISO 23537-1:2016; EN ISO 23537-1:2016)  
Requirements for sleeping bags – Part 1: Thermal and dimensional requirements (ISO 23537-1:2016; EN ISO 23537-1:2016)

### **HRN EN ISO 23537-2:2016 en pr**

Zahtjevi za vreće za spavanje – 2. dio: Svojstva tkanine i materijala (ISO 23537-2:2016; EN ISO 23537-2:2016)  
Requirements for sleeping bags – Part 2: Fabric and material properties (ISO 23537-2:2016; EN ISO 23537-2:2016)

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

### **HRN EN 50592:2016 en pr**

Željeznički sustav – Ispitivanje željezničkih vozila na elektromagnetsku kompatibilnost s brojačima osovina (EN 50592:2016)  
Railway applications – Testing of rolling stock for electromagnetic compatibility with axle counters (EN 50592:2016)

### **HRN EN 61375-2-3:2015/Ispr.2:2016 en pr**

Elektronička oprema za željeznice – Komunikacijska mreža vlaka (TCN) – Dio 2-3: Komunikacijski profil TCN-a (IEC 61375-2-3:2015/Corr.2:2016; EN 61375-2-3:2015/AC:2016)  
Electronic railway equipment – Train communication network (TCN) – Part 2-3: TCN communication profile (IEC 61375-2-3:2015/Corr.2:2016; EN 61375-2-3:2015/AC:2016)

### **HRN EN 62580-1:2016 en pr**

Elektronička oprema za željeznicu – Željeznički multimediji i telematički podsustavi na vozilu – 1. dio: Opća arhitektura (IEC 62580-1:2015; EN 62580-1:2016)  
Electronic railway equipment – On-board multimedia and telematic subsystems for railways – Part 1: General architecture (IEC 62580-1:2015; EN 62580-1:2016)

**HRN EN 62864-1:2016 en pr**

Željeznički sustav – Željeznička vozila – Napajanje sa sustavom pohrane energije na vozilu – 1. dio:  
Serijski hibridni sustav (IEC 62864-1:2016; EN 62864-1:2016)  
Railway applications – Rolling stock – Power supply with onboard energy storage system – Part 1:  
Series hybrid system (IEC 62864-1:2016; EN 62864-1:2016)

**HNZ/TO E13, Oprema za mjerjenje električne energije te upravljanje tarifom i potrošnjom****HRN EN 62056-4-7:2016 en pr**

Razmjena podataka mjerjenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 4-7: DLMS/COSEM prijenosna razina za IP (Internet Protocol) mreže (IEC 62056-4-7:2015; EN 62056-4-7:2016)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 4-7: DLMS/COSEM transport layer for IP networks (IEC 62056-4-7:2015; EN 62056-4-7:2016)

**HRN EN 62056-5-3:2016 en pr**

Razmjena podataka mjerjenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 5-3: Sloj primjene DLMS/COSEM-a (IEC 62056-5-3:2016; EN 62056-5-3:2016)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer (IEC 62056-5-3:2016; EN 62056-5-3:2016)

**HRN EN 62056-6-1:2016 en pr**

Razmjena podataka mjerjenja 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 62056-6-1:2015;  
EN 62056-6-1:2016)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 6-1: Object Identification System (OBIS) (IEC 62056-6-1:2015; EN 62056-6-1:2016)

**HRN EN 62056-6-2:2016 en pr**

Razmjena podataka mjerjenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 6-2: COSEM razredi sučelja (IEC 62056-6-2:2016; EN 62056-6-2:2016)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 6-2: COSEM interface classes (IEC 62056-6-2:2016; EN 62056-6-2:2016)

**HRN EN 62056-7-5:2016 en pr**

Razmjena podataka mjerjenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 7-5: Lokalni profili prijenosa podataka za lokalne mreže (LN) (IEC 62056-7-5:2016; EN 62056-7-5:2016)  
Electricity metering data exchange – The dlms/cosem suite – Part 7-5: Local data transmission profiles for Local Networks (LN) (IEC 62056-7-5:2016; EN 62056-7-5:2016)

**HNZ/TO E14, Energetski transformatori****HRN EN 60076-10:2016 en pr**

Energetski transformatori – 10. dio: Određivanje zvučnih razina (IEC 60076-10:2016;  
EN 60076-10:2016)  
Power transformers – Part 10: Determination of sound levels (IEC 60076-10:2016; EN 60076-10:2016)

**HNZ/TO E22, Energetska elektronika****HRN EN 60700-2:2016 en pr**

Tiristorski ventili za prijenos energije istosmjernom strujom visokog napona (HVDC) – 2. dio:  
Terminologija (IEC 60700-2:2016; EN 60700-2:2016)  
Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology (IEC 60700-2:2016; EN 60700-2:2016)

**HRN EN 61803:2004/A2:2016 en pr**

Određivanje gubitaka u pretvaračkim stanicama istosmjerne struje visokog napona (HVDC) s mrežom komutiranim pretvaračima (IEC 61803:1999/am2:2016; EN 61803:1999/A2:2016)

Determination of power losses in high-voltage direct current (HVDC) converter stations with line-commutated converters (IEC 61803:1999/am2:2016; EN 61803:1999/A2:2016)

**HNZ/TO E23, Električni instalacijski pribor****HRN EN 61058-2-6:2016 en pr**

Sklopke za aparate – Dio 2-6: Posebni zahtjevi za sklopke u elektromotornim ručnim alatima, prijenosnim alatima i mehanizaciji za vrtove i travnjake (IEC 61058-2-6:2016; EN 61058-2-6:2016)  
Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery (IEC 61058-2-6:2016; EN 61058-2-6:2016)

**HNZ/TO E31, Eksplozivne atmosfere****HRN EN ISO 16852:2016 en pr**

Prigušivači plamena – Zahtjevi za pogonska svojstva, metode ispitivanja i ograničenja za uporabu (ISO 16852:2016; EN ISO 16852:2016)

Flame arresters – Performance requirements, test methods and limits for use (ISO 16852:2016; EN ISO 16852:2016)

**HNZ/TO E34, Žarulje, svjetiljke i pripadna oprema****HRN EN 60598-2-13:2008/A2:2016 en pr**

Svetiljke – Dio 2-13: Posebni zahtjevi – Svetiljke ukopane u zemlju (IEC 60598-2-13:2006/am2:2016; EN 60598-2-13:2006/A2:2016)

Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires (IEC 60598-2-13:2006/am2:2016; EN 60598-2-13:2006/A2:2016)

**HNZ/TO E36, Izolatori****HRN EN 62772:2016 en pr**

Kompozitni šuplji stanični potporni izolatori za transformatorske stanice s izmjeničnim naponom iznad 1000 V i istosmjernim naponom iznad 1500 V – Definicije, metode ispitivanja i kriteriji za prihvatanje (IEC 62772:2016; EN 62772:2016)

Composite Hollow Core Station Post Insulators for substations with a.c. voltage greater than 1000 V and d.c. voltage greater than 1500 V – Definitions, test methods and acceptance criteria (IEC 62772:2016; EN 62772:2016)

**HNZ/TO E42, Visokonaponska ispitivanja****HRN EN 61180:2016 en pr**

Visokonaponska ispitna tehnika za niskonaponsku opremu – Definicije, zahtjevi za ispitivanja i postupke, ispitna oprema (IEC 61180:2016; EN 61180:2016)

High-voltage test techniques for low voltage equipment – Definitions, test and procedure requirements, test equipment (IEC 61180:2016; EN 61180:2016)

**HNZ/TO E45, Nuklearna instrumentacija****HRN EN 62618:2016 en pr**

Instrumentacija u zaštiti od zračenja – Alarmni spektroskopski osobni detektori zračenja za detekciju radioaktivnog materijala u nedopuštenome prometu (IEC 62618:2013; EN 62618:2016)

Radiation protection instrumentation – Spectroscopy-based alarming Personal Radiation Detectors (SPRD) for the detection of illicit trafficking of radioactive material (IEC 62618:2013; EN 62618:2016)

**HRN EN 62694:2016 en pr**

Instrumentacija u zaštiti od zračenja – Prenosivi detektori zračenja za detekciju radioaktivnog materijala u nedopuštenom prometu (IEC 62694:2014; EN 62694:2016)  
Radiation protection instrumentation – Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material (IEC 62694:2014; EN 62694:2016)

**HNZ/TO E55, Žice za namote****HRN EN 60851-4:2016 en pr**

Žice za namote – Ispitne metode – 4. dio: Kemijska svojstva (IEC 60851-4:2016; EN 60851-4:2016)  
Winding wires – Test methods – Part 4: Chemical properties (IEC 60851-4:2016; EN 60851-4:2016)

**HNZ/TO E56, Pouzdanost****HRN EN 61078:2016 en pr**

Blok dijagrami pouzdanosti (IEC 61078:2016; EN 61078:2016)  
Reliability block diagrams (IEC 61078:2016; EN 61078:2016)

**HRN EN 61703:2016 en pr**

Matematički izrazi za nazive koji se odnose na pouzdanost, raspoloživost, sposobnost održavanja i podršku održavanju (IEC 61703:2016; EN 61703:2016)  
Mathematical expressions for reliability, availability, maintainability and maintenance support terms (IEC 61703:2016; EN 61703:2016)

**HNZ/TO E57, Upravljanje energetskim sustavom i pridružene komunikacije****HRN EN 60870-5-104:2009/A1:2016 en pr**

Sustavi i oprema daljinskog upravljanja – Dio 5-104 : Prijenosni protokoli – Pristup mreži za IEC 60870-5-101 korištenjem standardnih opisa prijenosa (IEC 60870-5-104:2006/am1:2016; EN 60870-5-104:2006/A1:2016)  
Telecontrol equipment and systems – Part 5-104: Transmission protocols – Network access for IEC 60870-5-101 using standard transport profiles (IEC 60870-5-104:2006/am1:2016; EN 60870-5-104:2006/A1:2016)

**HNZ/TO E64, Električne instalacije i zaštita od električnog udara****HRN HD 60364-4-46:2016 en pr**

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

**HRN HD 60364-5-537:2016 en pr**

Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradnja električne opreme – Uredaji za zaštitu, odvajanje, sklapanje, upravljanje i nadzor – Točka 537: Odvajanje i sklapanje (HD 60364-5-537:2016)  
Low voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear – Clause 537: Isolation and switching (HD 60364-5-537:2016)

**HNZ/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa****HRN EN 61003-1:2016 en pr**

Sustavi za vođenje industrijskih procesa – Instrumenti s analognim ulazima i izlazima s dva ili više stanja – 1. dio: Metode ocjenjivanja izvedbe (IEC 61003-1:2016; EN 61003-1:2016)  
Industrial-Process control systems – Instruments with analogue inputs and two- or multi-position outputs – Part 1: Methods of evaluating the performance (IEC 61003-1:2016; EN 61003-1:2016)

**HRN EN 61003-2:2016 en pr**

Sustavi za vođenje industrijskih procesa – Instrumenti s analognim ulazima i izlazima s dva ili više stanja – 2. dio: Uputa za inspekciju i rutinska ispitivanja (IEC 61003-2:2016; EN 61003-2:2016)  
Industrial-Process control systems – Instruments with analogue inputs and two- or multi-position outputs – Part 2: Guidance for inspection and routine testing (IEC 61003-2:2016; EN 61003-2:2016)

**HRN EN 61069-1:2016 en pr**

Industrijska procesna mjerna oprema i oprema za vođenje – Ocjena svojstva sustava u svrhu procjene sustava – 1. dio: Opća razmatranja i metodologija (IEC 61069-1:2016; EN 61069-1:2016)  
Industrial-process measurement and control – Evaluation of system properties for the purpose of system assessment – Part 1: Terminology and basic concepts (IEC 61069-1:2016; EN 61069-1:2016)

**HRN EN 61069-2:2016 en pr**

Industrijska procesna mjerna oprema i oprema za vođenje – Ocjena svojstva sustava u svrhu procjene sustava – 2. dio: Metodologija procjenjivanja (IEC 61069-2:2016; EN 61069-2:2016)  
Industrial-process measurement and control – Evaluation of system properties for the purpose of system assessment – Part 2: Assessment methodology (IEC 61069-2:2016; EN 61069-2:2016)

**HRN EN 61069-3:2016 en pr**

Industrijsko procesno mjerjenje, upravljanje i automatizacija – Ocjena svojstva sustava u svrhu procjene sustava – 3. dio: Procjena funkcionalnosti sustava (IEC 61069-3:2016; EN 61069-3:2016)  
Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 3: Assessment of system functionality (IEC 61069-3:2016; EN 61069-3:2016)

**HRN EN 61069-4:2016 en pr**

Industrijska procesna mjerna oprema i oprema za vođenje – Ocjena svojstva sustava u svrhu procjene sustava – 4. dio: Procjena izvedbe sustava (IEC 61069-4:2016; EN 61069-4:2016)  
Industrial-process measurement and control – Evaluation of system properties for the purpose of system assessment – Part 4: Assessment of system performance (IEC 61069-4:2016; EN 61069-4:2016)

**HRN EN 62264-5:2016 en pr**

Integracija sustava za vođenje poduzeća – 5. dio: Izvještavanje između poslovanja i proizvodnje (IEC 62264-5:2016; EN 62264-5:2016)  
Enterprise-control system integration – Part 5: Business to manufacturing transactions (IEC 62264-5:2016; EN 62264-5:2016)

**HRN EN 62424:2016 en pr**

Predstavljanje (Opisivanje) tehnike vođenja procesa – Zahtjevi u P&I dijagramima i izmjena podataka između P&ID alata i PCE-CAE alata (IEC 62424:2016; EN 62424:2016)  
Representation of process control engineering – Request in P&I diagrams and data exchange between P&ID tools and PCE-CAE tools (IEC 62424:2016; EN 62424:2016)

**HRN EN 62952-1:2016 en pr**

Izvori napajanja za bežični komunikacijski uređaj – 1. dio: Opći zahtjevi za energetske module (IEC 62952-1:2016; EN 62952-1:2016)  
Power sources for a wireless communication device – Part 1: General requirements of power modules (IEC 62952-1:2016; EN 62952-1:2016)

**HRN EN 62952-2:2016 en pr**

Izvori napajanja za bežični komunikacijski uređaj – 2. dio: Profili za energetske module s baterijama (IEC 62952-2:2016; EN 62952-2:2016)  
Power sources for a wireless communication device – Part 2: Profile for power modules with batteries (IEC 62952-2:2016; EN 62952-2:2016)

## **HN/T0 E70, Stupnjevi zaštite kućištem**

**HRN EN 60529:2000/Ispri.1:2016** en pr

Stupnjevi zaštite osigurani kućištima (IP-Code) (IEC 60529:1989+am1:1999+am2:2013/Corr.2:2015; EN 60529:1991/AC:2016)

Degrees of protection provided by enclosures (IP Code)

(IEC 60529:1989+am1:1999+am2:2013/Corr.2:2015; EN 60529:1991/AC:2016)

## **HN/T0 E79, Alarmni sustavi**

**HRS CLC/TS 50131-12:2016** en pr

Alarmni sustavi – Protuprovalni i protuprepadni sustavi – 12. dio: Metode i zahtjevi za aktiviranje i deaktiviranje protuprovalnih alarmnih sustava (IAS) (CLC/TS 50131-12:2016)

Alarm systems – Intrusion and hold-up systems – Part 12: Methods and requirements for setting and unsetting of Intruder Alarm Systems (IAS) (CLC/TS 50131-12:2016)

**HRN EN 62820-1-1:2016** en pr

Sustavi za internu komunikaciju u zgradama – Dio 1-1: Zahtjevi za sustav – Općenito (IEC 62820-1-1:2016; EN 62820-1-1:2016)

Building intercom systems – Part 1-1: System requirements – General (IEC 62820-1-1:2016; EN 62820-1-1:2016)

## **HN/T0 E81, Zaštita od munje**

**HRN EN 62305-1:2013/Ispri.1:2016** en pr

Zaštita od munje – 1. dio: Opća načela (EN 62305-1:2011/AC:2016)

Protection against lightning – Part 1: General principles (EN 62305-1:2011/AC:2016)

**HRN EN 62305-4:2013/Ispri.1:2016** en pr

Zaštita od munje – 4. dio: Električni i elektronički sustavi unutar građevina (EN 62305-4:2011/AC:2016)

Protection against lightning – Part 4: Electrical and electronic systems within structures (EN 62305-4:2011/AC:2016)

## **HN/T0 E88, Vjetroagregati**

**HRN EN 61400-12-2:2014/Ispri.1:2016** en pr

Vjetroagregati – Dio 12-2: Proizvodnost vjetroagregata na osnovi mjerjenja vjetra anemometrom smještenog na gondoli (IEC 61400-12-2:2013/Corr.1:2016; EN 61400-12-2:2013/AC:2016)

Wind turbines – Part 12-2: Power performance of electricity-producing wind turbines based on nacelle anemometry (IEC 61400-12-2:2013/Corr.1:2016; EN 61400-12-2:2013/AC:2016)

## **HN/T0 E100, Audio, video i multimedijski sustavi te njihova oprema**

**HRN EN 62605:2016** en pr

Multimedijski sustavi i oprema – Multimedijsko e-izdavaštvo i e-knjige – Format međusobne izmjene za e-rječnike (IEC 62605:2016; EN 62605:2016)

Multimedia systems and equipment – Multimedia e-publishing and e-books technologies – Interchange format for e-dictionaries (IEC 62605:2016; EN 62605:2016)

**HRN EN 62680-1-3:2016** en pr

Universal serial bus interfaces for data and power – Part 1-3: Universal Serial Bus interfaces – Common components – USB Type-CTM cable and connector specification (IEC 62680-1-3:2016; EN 62680-1-3:2016)

**HRN EN 62827-1:2016** en pr

Wireless Power Transfer – Management – Part 1: Common Components (TA 15) (IEC 62827-1:2016; EN 62827-1:2016)

## **HN/T0 E103, Odašiljačka oprema za radiokomunikacije**

**HRN EN 62803:2016 en pr**

Metoda mjerjenja frekvencijskog odziva optičko-električkog pretvornika kod visokofrekveničkih radijskih sustava po optičkom vlaknu (IEC 62803:2016; EN 62803:2016)

Measurement Method of a Frequency Response of Optical-to-Electric Conversion Device in High-Frequency Radio on Fiber Systems (IEC 62803:2016; EN 62803:2016)

## **HN/T0 E106, Elektromagnetska polja u ljudskome okolišu**

**HRN EN 50527-1:2016 en pr**

Postupak za procjenu izloženosti radnika koji nose aktivne medicinske implantate elektromagnetskim poljima – 1. dio: Općenito (EN 50527-1:2016)

Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 1: General (EN 50527-1:2016)

**HRN EN 50527-2-1:2016 en pr**

Postupak za procjenu izloženosti radnika koji nose aktivne medicinske implantate elektromagnetskim poljima – Dio 2-1: Specifična procjena za radnike s elektrostimulatorima srca (EN 50527-2-1:2016)

Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-1: Specific assessment for workers with cardiac pacemakers (EN 50527-2-1:2016)

**HRN EN 62209-1:2016 en pr**

Mjerni postupak za procjenu gustoće apsorbirane snage tijekom izloženosti ljudi radiofrekvencijskim poljima ručnih uređaja i na tijelo postavljenih uređaja za bežičnu komunikaciju – 1. dio: Uređaji koji se koriste u neposrednoj blizini uha (frekvencijsko područje od 300 MHz do 6 GHz) (IEC 62209-1:2016; EN 62209-1:2016)

Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz) (IEC 62209-1:2016; EN 62209-1:2016)

## **HN/T0 T4, Normizacija u telekomunikacijama**

**HRN EN 300 132-2 V2.5.1:2016 en pr**

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 V2.5.1:2016)

Environmental Engineering (EE) – Power supply interface at the input to telecommunications and datacom (ICT) equipment – Part 2: Operated by -48 V direct current (dc) (EN 300 132-2 V2.5.1:2016)

**HRN EN 300 219 V2.1.1:2016 en pr**

Kopnena pokretna služba – Radijski uređaji koji odašilju signale za poticanje posebnog odziva u prijamniku – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 300 219 V2.1.1:2016)

Land Mobile Service – Radio equipment 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 300 219 V2.1.1:2016)

**HRN EN 300 392-2 V3.8.1:2016 en pr**

Terestrijalni međumjesni radio (TETRA) – Glas i podatci (V+D) – 2. dio: Zračno sučelje (EN 300 392-2 V3.8.1:2016)

Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 2: Air Interface (AI) (EN 300 392-2 V3.8.1:2016)

**HRN EN 300 392-5 V2.5.1:2016 en pr**

Terestrijalni tranking radio (TETRA) – Glas i podaci (V+D) i rad u izravnome načinu (DMO) – 5. dio:  
Sučelje periferne opreme (PEI) (EN 300 392-5 V2.5.1:2016)  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) and Direct Mode Operation (DMO) – Part 5: Peripheral Equipment Interface (PEI) (EN 300 392-5 V2.5.1:2016)

**HRN EN 300 396-6 V1.6.1:2016 en pr**

Terestrijalni tranking radio (TETRA) – Izravni način rada (DMO) – 6. dio: Sigurnost  
(EN 300 396-6 V1.6.1:2016)  
Terrestrial Trunked Radio (TETRA) – Direct Mode Operation (DMO) – Part 6: Security  
(EN 300 396-6 V1.6.1:2016)

**HRN EN 300 422-1 V2.1.1:2016 en pr**

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 (EN 300 422-1 V2.1.1:2016)  
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  
(EN 300 422-1 V2.1.1:2016)

**HRN EN 300 674-2-1 V2.1.1:2016 en pr**

Telematika cestovnog prijevoza i prometa (TTT) – Komunikacijska oprema kratkoga dometa (DSRC) za prijenos signala brzinama 500 kbit/s/250 kbit/s, koja radi u pojasu od 5 795 MHz do 5 815 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 1. pod-dio: Jedinice uz prometnicu (RSU) (EN 300 674-2-1 V2.1.1:2016)  
Transport and Traffic Telematics (TTT) – Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Sub-part 1: Road Side Units (RSU) (EN 300 674-2-1 V2.1.1:2016)

**HRN EN 300 674-2-2 V2.1.1:2016 en pr**

Telematika cestovnog prijevoza i prometa (TTT) – Komunikacijska oprema kratkoga dometa (DSRC) za prijenos signala brzinama 500 kbit/s/250 kbit/s, koja radi u pojasu od 5 795 MHz do 5 815 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. pod-dio: Jedinice na vozilu (OBU) (EN 300 674-2-2 V2.1.1:2016)  
Transport and Traffic Telematics (TTT) – Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU – Sub-part 2: On-Board Units (OBU) (EN 300 674-2-2 V2.1.1:2016)

**HRN EN 300 700 V2.1.1:2016 en pr**

Digitalne poboljšane bežične telekomunikacije (DECT) – Bežična relejna stanica (WRS) (EN 300 700 V2.1.1:2016)  
Digital Enhanced Cordless Telecommunications (DECT) – Wireless Relay Station (WRS) (EN 300 700 V2.1.1:2016)

**HRN EN 301 559 V2.1.1:2016 en pr**

Uređaji kratkoga dometa (SRD) – Aktivni medicinski implantati male snage (LP-AMI) u frekvencijskome području od 2483,5 do 2500 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 559 V2.1.1:2016)  
Short Range Devices (SRD) – Low Power Active Medical Implants (LP-AMI) and associated Peripherals (LP-AMI-P) operating in the frequency range 2 483,5 MHz to 2 500 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  
(EN 301 559 V2.1.1:2016)

**HRN EN 301 841-3 V2.1.1:2016 en pr**

Radijska oprema za VHF digitalnu vezu (VDL), zrak-tlo, mod 2 – Tehničke značajke i mjerne metode za opremu na tlu – 3. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 841-3 V2.1.1:2016)

VHF air-ground Digital Link (VDL) Mode 2 – Technical characteristics and methods of measurement for ground-based equipment – Part 3: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 841-3 V2.1.1:2016)

**HRN EN 301 842-5 V2.1.1:2016 en pr**

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 (EN 301 842-5 V2.1.1:2016)

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 (EN 301 842-5 V2.1.1:2016)

**HRN EN 301 908-2 V11.1.1:2016 en pr**

Celularne mreže IMT – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. dio: Korisnička oprema (UE) za CDMA s izravnim proširenjem (UTRA FDD) (EN 301 908-2 V11.1.1:2016)

IMT cellular networks – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE) (EN 301 908-2 V11.1.1:2016)

**HRN EN 301 908-3 V11.1.2:2016 en pr**

Celularne mreže IMT – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Bazne postaje (BS) za CDMA s izravnim proširenjem (UTRA FDD) (EN 301 908-3 V11.1.2:2016)

IMT cellular networks – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS) (EN 301 908-3 V11.1.2:2016)

**HRN EN 301 908-13 V11.1.1:2016 en pr**

Celularne mreže IMT – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 13. dio: Korisnička oprema (UE) za razvijeni univerzalni terestrijalni radijski pristup (E-UTRA) (EN 301 908-13 V11.1.1:2016)

IMT cellular networks – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) (EN 301 908-13 V11.1.1:2016)

**HRN EN 302 537 V2.1.1:2016 en pr**

Sustavi ultra niske snage podatkovnih medicinskih servisa (MEDS) u frekvencijskome području od 401 MHz do 402 MHz i od 405 MHz do 406 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 537 V2.1.1:2016)

Ultra Low Power Medical Data Service (MEDS) Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 537 V2.1.1:2016)

**HRN EN 303 883 V1.1.1:2016 en pr**

Uredaji kratkoga dometa (SRD) koji upotrebljavaju ultra široko frekvencijsko područje (UWB) – Mjerne tehnike (EN 303 883 V1.1.1:2016)

Short Range Devices (SRD) using Ultra Wide Band (UWB) – Measurement Techniques (EN 303 883 V1.1.1:2016)

## **HN/T0 Z2, Ocjenjivanje sukladnosti i akreditacija**

### **HRS ISO/IEC TS 17021-9:2016 en pr**

Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 9. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja za suzbijanje podmićivanja (ISO/IEC TS 17021-9:2016)

Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 9: Competence requirements for auditing and certification of anti-bribery management systems (ISO/IEC TS 17021-9:2016)

### **HRN EN ISO 17034:2016 en pr**

Opći zahtjevi za osposobljenost proizvođača referentnih materijala (ISO 17034:2016; EN ISO 17034:2016)

General requirements for the competence of reference material producers (ISO 17034:2016; EN ISO 17034:2016)

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

### **HRN EN ISO 12006-3:2016 en pr**

Građenje – Organiziranje informacija o građevinama – 3. dio: Okvir za objektno usmjerene informacije (ISO 12006-3:2007; EN ISO 12006-3:2016)

Building construction – Organization of information about construction works – Part 3: Framework for object-oriented information (ISO 12006-3:2007; EN ISO 12006-3:2016)

### **HRN EN ISO 16739:2016 en pr**

Industry Foundation Classes (IFC) za razmjenu podataka u građevinskoj industriji i industriji upravljanja održavanjem građevina (ISO 16739:2013; EN ISO 16739:2016)

Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries (ISO 16739:2013; EN ISO 16739:2016)

### **HRN EN ISO 29481-2:2016 en pr**

Modeli informacija o građevinama – Priručnik za razmjenu informacija – 2. dio: Okvir za interakciju (ISO 29481-2:2012; EN ISO 29481-2:2016)

Building information models – Information delivery manual – Part 2: Interaction framework (ISO 29481-2:2012; EN ISO 29481-2:2016)

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

### **HRI CEN/TR 16721:2016 en pr**

Proizvodi na biološkoj osnovi – Pregled metoda za određivanje biološkog sadržaja (CEN/TR 16721:2014)

Bio-based products – Overview of methods to determine the bio-based content (CEN/TR 16721:2014)

### **HRN EN 16848:2016 en pr**

Proizvodi na biološkoj osnovi – Zahtjevi za izvještavanje o značajkama među poslovnim subjektima pomoću Obrasca za upis podataka (EN 16848:2016)

Bio-based products – Requirements for Business to Business communication of characteristics using a Data Sheet (EN 16848:2016)

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

### **HRN EN ISO 9856:2016 en pr**

Transportne trake – Određivanje elastičnog i trajnog izduženja i izračunavanje modula elastičnosti (ISO 9856:2016; EN ISO 9856:2016)

Conveyor belts – Determination of elastic and permanent elongation and calculation of elastic modulus (ISO 9856:2016; EN ISO 9856:2016)

**HRN EN ISO 15236-1:2016 en pr**

Transportne trake s čeličnom užadi – 1. dio: Projektiranje, dimenzije i mehanički zahtjevi za transportne trake za opću upotrebu (ISO 15236-1:2016; EN ISO 15236-1:2016)  
Steel cord conveyor belts – Part 1: Design, dimensions and mechanical requirements for conveyor belts for general use (ISO 15236-1:2016; EN ISO 15236-1:2016)

**HRS CEN/TS 17010:2016 en pr**

Nanotehnologija – Upute o mjernim veličinama za karakterizaciju nano objekata i materijala koji ih sadrže (CEN/TS 17010:2016)  
Nanotechnologies – Guidance on measurands for characterising nano-objects and materials that contain them (CEN/TS 17010:2016)

**HRN EN ISO 22975-1:2016 en pr**

Sunčeva energija – Komponente i materijali za kolektore – 1. dio: Vakumske cijevi – Postojanost i značajke (ISO 22975-1:2016; EN ISO 22975-1:2016)  
Solar energy – Collector components and materials – Part 1: Evacuated tubes – Durability and performance (ISO 22975-1:2016; EN ISO 22975-1:2016)

**HRN EN ISO 22975-2:2016 en pr**

Sunčeva energija – Komponente i materijali za kolektore – 2. dio: Toplinske cijevi za primjenu kod Sunčeva zračenja – Postojanost površine apsorbera (ISO 22975-2:2016; EN ISO 22975-2:2016)  
Solar energy – Collector components and materials – Part 2: Heat-pipe for solar thermal application – Durability and performance (ISO 22975-2:2016; EN ISO 22975-2:2016)

**HNZ/TU M1, *Metalni materijali 1*****HRN EN ISO 9202:2016 en pr**

Nakit – Finoča legura plemenitih metala (ISO 9202:2014; EN ISO 9202:2016)  
Jewellery – Fineness of precious metal alloys (ISO 9202:2014; EN ISO 9202:2016)

**HRN EN ISO 11210:2016 en pr**

Nakit – Određivanje platine u legurama platine za nakit – Gravimetrijska metoda nakon taloženja dijamonijeva heksakloroplatinata (ISO 11210:2014; EN ISO 11210:2016)  
Jewellery – Determination of platinum in platinum jewellery alloys – Gravimetric method after precipitation of diammonium hexachloroplatinate (ISO 11210:2014; EN ISO 11210:2016)

**HRN EN ISO 11426:2016 en pr**

Nakit – Određivanje zlata u legurama zlata za nakit – Metoda kupelacije (analiza vatrom) (ISO 11426:2014; EN ISO 11426:2016)  
Jewellery – Determination of gold in gold jewellery alloys – Cupellation method (fire assay) (ISO 11426:2014; EN ISO 11426:2016)

**HRN EN ISO 11427:2016 en pr**

Nakit – Određivanje srebra u legurama srebra za nakit – Volumetrijska (potenciometrijska) metoda upotrebom kalijeva bromida (ISO 11427:2014; EN ISO 11427:2016)  
Jewellery – Determination of silver in silver jewellery alloys – Volumetric (potentiometric) method using potassium bromide (ISO 11427:2014; EN ISO 11427:2016)

**HRN EN ISO 11490:2016 en pr**

Nakit – Određivanje paladija u legurama paladija za nakit – Gravimetrijsko određivanje pomoću dimetilglioksimata (ISO 11490:2015; EN ISO 11490:2016)  
Jewellery – Determination of palladium in palladium jewellery alloys – Gravimetric determination with dimethylglyoxime (ISO 11490:2015; EN ISO 11490:2016)

**HRN EN ISO 11494:2016 en pr**

Nakit – Određivanje platine u legurama platine za nakit – Metoda optičke emisijske spektrometrije s induktivno spregnutom plazmom (ICP-OES) upotrebom itrija kao unutrašnjega standardnog elementa (ISO 11494:2014; EN ISO 11494:2016)  
Jewellery – Determination of platinum in platinum jewellery alloys – ICP-OES method using yttrium as internal standard element (ISO 11494:2014; EN ISO 11494:2016)

**HRN EN ISO 11495:2016 en pr**

Određivanje paladija u legurama paladija za nakit – Metoda optičke emisijske spektrometrije s induktivno spregnutom plazmom (ICP-OES) upotreboom itrija kao unutrašnjega standardnog elementa (ISO 11495:2014; EN ISO 11495:2016)

Jewellery – Determination of palladium in palladium jewellery alloys – ICP-OES method using yttrium as internal standard element (ISO 11495:2014; EN ISO 11495:2016)

**HRN EN 16983:2016 en pr**

Tanjuraste opruge – Specifikacije kvalitete – Dimenzije (EN 16983:2016)

Disc springs – Quality specifications – Dimensions (EN 16983:2016)

**HRN EN 16984:2016 en pr**

Tanjuraste opruge – Proračun (EN 16984:2016)

Disc springs – Calculation (EN 16984:2016)

**HZN/TU N1, Nemetalni materijali 1****HRN EN 16723-1:2016 en pr**

Prirodni plin i biometan za uporabu u prijevozu i biometan za ubrizgavanje u mrežu prirodnog plina – 1. dio: Specifikacije za biometan za ubrizgavanje u mrežu prirodnog plina (EN 16723-1:2016)

Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network – Part 1: Specifications for biomethane for injection in the natural gas network (EN 16723-1:2016)

**HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1****HRN EN ISO 3964:2016 en pr**

Stomatologija – Dimenzije spojnica za stomatološke nastavke (ISO 3964:2016; EN ISO 3964:2016)

Dentistry – Coupling dimensions for handpiece connectors (ISO 3964:2016; EN ISO 3964:2016)

**HRN EN ISO 5832-3:2016 en pr**

Kirurški implantati – Metalni materijali – 3. dio: Kovana legura titana koja sadrži 6% aluminija i 4% vanadija (ISO 5832-3:2016; EN ISO 5832-3:2016)

Implants for surgery – Metallic materials – Part 3: Wrought titanium 6-aluminium 4-vanadium alloy (ISO 5832-3:2016; EN ISO 5832-3:2016)

**HRN EN ISO 7153-1:2016 en pr**

Kirurški instrumenti – Materijali – 1. dio: Metali (ISO 7153-1:2016; EN ISO 7153-1:2016)

Surgical instruments – Materials – Part 1: Metals (ISO 7153-1:2016; EN ISO 7153-1:2016)

**HRN EN ISO 8536-13:2016 en pr**

Oprema za infuziju za medicinsku primjenu – 13. dio: Regulatori protoka sa stupnjevanjem za jednokratnu upotrebu u kontaktu s tekućinom (ISO 8536-13:2016; EN ISO 8536-13:2016)

Infusion equipment for medical use – Part 13: Graduated flow regulators for single use with fluid contact (ISO 8536-13:2016; EN ISO 8536-13:2016)

**HRN EN ISO 8871-5:2016 en pr**

Elastomerni dijelovi za parenteralne preparate i uređaje za farmaceutsku primjenu – 5. dio:

Funkcionalni zahtjevi i ispitivanja (ISO 8871-5:2016; EN ISO 8871-5:2016)

Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 5: Functional requirements and testing (ISO 8871-5:2016; EN ISO 8871-5:2016)

**HRN EN ISO 9173-1:2016 en pr**

Stomatologija – Kliješta za ekstrakciju – 1. dio: Opći zahtjevi (ISO 9173-1:2016; EN ISO 9173-1:2016)

Dentistry – Extraction forceps – Part 1: General requirements (ISO 9173-1:2016;

EN ISO 9173-1:2016)

**HRN EN ISO 9999:2016 en pr**

Pomagala za osobe s invaliditetom – Klasifikacija i nazivlje (ISO 9999:2016; EN ISO 9999:2016)

Assistive products for persons with disability – Classification and terminology (ISO 9999:2016; EN ISO 9999:2016)

**HRN EN ISO 14801:2016 en pr**

Stomatologija – Implantati – Dinamičko ispitivanje zamora endosalnih zubnih implantata (ISO 14801:2016; EN ISO 14801:2016)

Dentistry – Implants – Dynamic fatigue test for endosseous dental implants (ISO 14801:2016; EN ISO 14801:2016)

**HRN EN ISO 16409:2016 en pr**

Stomatologija – Proizvodi za njegu usne šupljine – Ručne interdentalne četkice (ISO 16409:2016; EN ISO 16409:2016)

Dentistry – Oral care products – Manual interdental brushes (ISO 16409:2016; EN ISO 16409:2016)

**HRN EN 16872:2016 en pr**

Usluge liječnika medicine s dodatnom kvalifikacijom u homeopatiji (MDQH) – Zahtjevi s obzirom na pružanje zdravstvenih usluga liječnika medicine s dodatnom kvalifikacijom u homeopatiji (EN 16872:2016)

Services of Medical Doctors with additional qualification in Homeopathy (MDQH) – Requirements for health care provision by Medical Doctors with additional qualification in Homeopathy (EN 16872:2016)

**HRN EN ISO 17509:2016 en pr**

Stomatologija – Zakretni držak za instrumente za postavljanje implantata (ISO 17509:2016; EN ISO 17509:2016)

Dentistry – Torque transmitter for handpieces used for implantation (ISO 17509:2016; EN ISO 17509:2016)

**HRN EN ISO 21535:2011/A1:2016 en pr**

Neaktivni kirurški implantati – Implantati za zamjenu zgloba – Posebni zahtjevi za implantate za zamjenu kuka (ISO 21535:2007/Amd 1:2016; EN ISO 21535:2009/A1:2016)

Non-active surgical implants – Joint replacement implants – Specific requirements for hip-joint replacement implants (ISO 21535:2007/Amd 1:2016; EN ISO 21535:2009/A1:2016)

***HN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1*****HRN EN ISO 3691-2:2016/Ispr.1:2016 en pr**

Industrijska vozila – Sigurnosni zahtjevi i verifikacija – 2. dio: Vozila na vlastiti pogon s promjenjivim dometom (EN ISO 3691-2:2016/AC:2016)

Industrial trucks – Safety requirements and verification – Part 2: Self-propelled variable-reach trucks (EN ISO 3691-2:2016/AC:2016)

**HRN EN 4165-013:2016 en pr**

Zrakoplovstvo – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – Dio 013: Stega za kabel za module 2 i 4 za spojnice, serije 2 i 3 – Norma za proizvod (EN 4165-013:2016)  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 013: Cable clamp 2 and 4 modules for connectors, series 2 and 3 – Product standard (EN 4165-013:2016)

**HRN EN 4701-002:2016 en pr**

Optičke, pravokutne i modularne spojnice, radne temperature 125 °C, za kontakte prema normi EN 4531-101 – Dio 002: Specifikacije značajki (EN 4701-002:2016)

Aerospace series – Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts – Part 002: Specification of performance (EN 4701-002:2016)

**HRN EN 16230-2:2016 en pr**

Go-karti – 2. dio: Sigurnosni zahtjevi za objekte za karting (EN 16230-2:2016)

Leisure karts – Part 2: Safety requirements for karting facilities (EN 16230-2:2016)

**HRN EN 16796-1:2016 en pr**

Energijska učinkovitost industrijskih vozila – Metode ispitivanja – 1. dio: Općenito (EN 16796-1:2016)  
Energy efficiency of industrial trucks – Test methods – Part 1 : General (EN 16796-1:2016)

**HRN EN 16796-2:2016 en pr**

Energijska učinkovitost industrijskih vozila – Metode ispitivanja – 2. dio: Industrijska vozila, vozila za vuču i teretna vozila na vlastiti pogon s rukovateljem (EN 16796-2:2016)  
Energy efficiency of Industrial trucks – Test methods – Part 2 : Operator controlled self-propelled trucks, towing tractors and burden-carrier trucks (EN 16796-2:2016)

**HRN EN 16796-3:2016 en pr**

Energijska učinkovitost industrijskih vozila – Metode ispitivanja – 3. dio: Vozila za podizanje i rukovanje kontejnerima (EN 16796-3:2016)  
Energy efficiency of Industrial trucks – Test methods – Part 3 : Container handling lift trucks (EN 16796-3:2016)

**HZN/TU U1, Opća elektrotehnika 1****HRN EN 60695-1-21:2016 en pr**

Ispitivanje opasnosti od požara – Dio 1-21: Upute za procjenu opasnosti od požara za elektrotehničke proizvode – Zapaljivost – Sažetak i relevantnost ispitnih metoda (IEC 60695-1-21:2016; EN 60695-1-21:2016)  
Fire hazard testing – Part 1-21: Guidance for assessing the fire hazard of electrotechnical products – Ignitability – Summary and relevance of test methods (IEC 60695-1-21:2016; EN 60695-1-21:2016)

**HRN EN 60695-10-3:2016 en pr**

Ispitivanje na opasnost od požara – Dio 10-3: Nenormalna toplina – Ispitivanje deformacija pri oporavku napregnute konstrukcije (IEC 60695-10-3:2016; EN 60695-10-3:2016)  
Fire hazard testing – Part 10-3: Abnormal heat – Mould stress relief distortion test (IEC 60695-10-3:2016; EN 60695-10-3:2016)

**HRN EN 60974-4:2016 en pr**

Oprema za elektrolučno zavarivanje – 4. dio: Periodični pregled i ispitivanje (IEC 60974-4:2016; EN 60974-4:2016)  
Arc welding equipment – Part 4: Periodic inspection and testing (IEC 60974-4:2016; EN 60974-4:2016)

**HZN/TU V1, Elektronika 1****HRN EN 60062:2016 en pr**

Marking codes for resistors and capacitors (IEC 60062:2016; EN 60062:2016)

**HRN EN 60154-2:2016 en pr**

Flanges for waveguides – Part 2: Relevant specifications for flanges for ordinary rectangular waveguides (IEC 60154-2:2016; EN 60154-2:2016)

**HRN EN 60191-6-13:2016 en pr**

Mechanical standardization of semiconductor devices – Part 6-13: Design guideline of open-top-type sockets for Fine-pitch Ball Grid Array (FBGA) and Fine-pitch Land Grid Array (FLGA) (IEC 60191-6-13:2016; EN 60191-6-13:2016)

**HRN EN 60384-3:2016 en pr**

Fixed capacitors for use in electronic equipment – Part 3: Sectional specification: Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte (IEC 60384-3:2016; EN 60384-3:2016)

**HRN EN 60384-4:2016 en pr**

Fixed capacitors for use in electronic equipment – Part 4: Sectional specification – Fixed aluminium electrolytic capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyt (IEC 60384-4:2016; EN 60384-4:2016)

**HRN EN 60384-14:2014/A1:2016 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/am1:2016; EN 60384-14:2013/A1:2016)

**HRN EN 60749-44:2016 en pr**

Semiconductor devices – Mechanical and climatic test methods – Part 44: Neutron beam irradiated single event effect (SEE) test method for semiconductor devices (IEC 60749-44:2016; EN 60749-44:2016)

**HRN EN 60794-3-20:2016 en pr**

Optical fibre cables – Part 3-20: Outdoor cables – Family specification for self-supporting aerial telecommunication cables (IEC 60794-3-20:2016; EN 60794-3-20:2016)

**HRN EN 60794-5:2016 en pr**

Optical fibre cables – Part 5: Sectional specification – Microduct cabling for installation by blowing (IEC 60794-5:2014; EN 60794-5:2016)

**HRN EN 61010-2-012:2016 en pr**

Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment (IEC 61010-2-012:2016; EN 61010-2-012:2016)

**HRN EN 61076-3-110:2016 en pr**

Connectors for electronic equipment – Product requirements – Part 3-110: detail specification for free and fixed connectors for data transmission with frequencies up to 3 000 MHz (IEC 61076-3-110:2016; EN 61076-3-110:2016)

**HRN EN 61169-54:2016 en pr**

Radio-frequency connectors – Part 54: Sectional specification for coaxial connectors with 10mm inner diameter of outer conductor nominal characteristic impedance 50 Ohms, Series 4.3-10r (IEC 61169-54:2016; EN 61169-54:2016)

**HRN EN 61169-58:2016 en pr**

Radio-frequency connectors – Part 58: Sectional specification for RF coaxial connectors with blind-mate coupling – Characteristic impedance 50 Ω (type SBMA) (IEC 61169-58:2016; EN 61169-58:2016)

**HRN EN 61189-2-719:2016 en pr**

Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 2-719: Test methods for printed board and assembly materials – Relative permittivity and loss tangent (500MHz to 10GHz) (IEC 61189-2-719:2016; EN 61189-2-719:2016)

**HRN EN 61215-1:2016 en pr**

Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements (IEC 61215-1:2016; EN 61215-1:2016)

**HRN EN 61300-1:2016 en pr**

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance (IEC 61300-1:2016; EN 61300-1:2016)

**HRN EN 61300-3-25:2016 en pr**

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-25: Examinations and measurements – Concentricity of the non-angled ferrules and non-angled ferrules with fibre installed (IEC 61300-3-25:2016; EN 61300-3-25:2016)

**HRN EN 61340-2-3:2016 en pr**

Electrostatics – Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation (IEC 61340-2-3:2016; EN 61340-2-3:2016)

**HRN EN 61340-5-1:2016 en pr**

Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements (IEC 61340-5-1:2016; EN 61340-5-1:2016)

**HRN EN 62047-25:2016 en pr**

Semiconductor devices – Micro-electromechanical devices – Part 25: Silicon-based MEMS fabrication technology – Measurement method of pull-press and shearing strength of micro bonding area (IEC 62047-25:2016; EN 62047-25:2016)

**HRN EN 62276:2016 en pr**

Single crystal wafers for surface acoustic wave (SAW) device applications – Specifications and measuring methods (IEC 62276:2016; EN 62276:2016)

**HRN EN 62317-12:2016 en pr**

Ferrite cores – Dimensions – Part 12: Ring cores (IEC 62317-12:2016; EN 62317-12:2016)

**HRN EN 62433-4:2016 en pr**

EMC IC modelling – Part 4: Models of Integrated Circuits for RF Immunity behavioural simulation – Conducted Immunity modelling (ICIM-CI) (IEC 62433-4:2016; EN 62433-4:2016)

**HRN EN 62788-1-5:2016 en pr**

Measurement procedures for materials used in photovoltaic modules – Part 1-5: Encapsulants – Measurement of change in linear dimensions of sheet encapsulation material resulting from applied thermal conditions (IEC 62788-1-5:2016; EN 62788-1-5:2016)

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

**HRN EN 60086-5:2016 en pr**

Primarne baterije – 5. dio: Sigurnost baterija s tekućim elektrolitom (IEC 60086-5:2016; EN 60086-5:2016)

Primary batteries – Part 5: Safety of batteries with aqueous electrolyte (IEC 60086-5:2016; EN 60086-5:2016)

**HRN EN 60269-4:2010/A2:2016 en pr**

Niskonaponski osigurači – 4. dio: Dodatni zahtjevi za rastalne uloške za zaštitu poluvodičkih naprava (IEC 60269-4:2009/am2:2016; EN 60269-4:2009/A2:2016)

Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices (IEC 60269-4:2009/am2:2016; EN 60269-4:2009/A2:2016)

**HRN EN 60350-1:2016 en pr**

Kućanski električni aparati za kuhanje – 1. dio: Štednjaci, pećnice, pećnice na paru i roštilji – Metode za mjerjenje radnih značajka (IEC 60350-1:2016; EN 60350-1:2016)

Household electric cooking appliances – Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance (IEC 60350-1:2016; EN 60350-1:2016)

**HRN EN 62146-1:2014/A1:2016 en pr**

Grading capacitors for high-voltage alternating current circuit-breakers – Part 1: General (IEC 62146-1:2013/am1:2016; EN 62146-1:2014/A1:2016)

**HRN EN 62660-3:2016 en pr**

Sekundarni litij-ionski članci za pogon električnih cestovnih vozila – 3. dio: Sigurnosni zahtjevi (IEC 62660-3:2016; EN 62660-3:2016)

Secondary lithium-ion cells for the propulsion of electrical road vehicles – Part 3: Safety requirements (IEC 62660-3:2016; EN 62660-3:2016)

**HRN EN 62841-2-9:2015/Ispr.1:2016 en pr**

Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-9:

Posebni zahtjevi za ručne ureznice i nareznice (IEC 62841-2-9:2015/Corr.1:2015;

EN 62841-2-9:2015/AC:2016)

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-9: Particular requirements for hand-held tappers and threaders

(IEC 62841-2-9:2015/Corr.1:2015; EN 62841-2-9:2015/AC:2016)

**HRN EN 62849:2016 en pr**

Metode za procjenu značajka pokretnih kućnih robova (IEC 62849:2016; EN 62849:2016)

Performance evaluation methods of mobile household robots (IEC 62849:2016; EN 62849:2016)

### **1.3 Prijedlozi za prihvatanje 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 prihvatanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma. Pisane primjedbe na prijedloge za prihvatanje norma dostavljaju se Hrvatskome zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

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

**prEN 1305 en**

Inland navigation vessels – Connections for the discharge of oily mixture

Brodovi unutrašnje plovidbe – Priključci za iskrcaj zauljenih tekućina

**prEN 1306 en**

Inland navigation vessels – Connections for the discharge of waste water

Brodovi unutrašnje plovidbe – Priključci za iskrcaj otpadnih voda

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

**ISO 3006:2015 en**

Road vehicles – Passenger car wheels for road use – Test methods

Cestovna vozila – Kotači osobnih automobila za cestovnu uporabu – Metode ispitivanja

**ISO 3917:2016 en**

Road vehicles – Safety glazing materials – Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering

Cestovna vozila – Sigurnosna stakla – Metode ispitivanja otpornosti na zračenje, visoku temperaturu, vlagu, vatru i na simulirane vremenske uvjete

**ISO 5775-2:2015 en**

Bicycle tyres and rims – Part 2: Rims

Gume i naplatci za bicikle – 2. dio: Naplatci

**ISO 7637-1:2015 en**

Road vehicles – Electrical disturbances from conduction and coupling – Part 1: Definitions and general considerations

Cestovna vozila – Električne smetnje koje se šire vođenjem i sprezanjem – 1. dio: Definicije i općenito

**ISO 10231:2003/Amd 1:2015 en**

Motorcycle tyres – Test methods for verifying tyre capabilities

Gume za motocikle – Metode ispitivanja za provjeru sposobnosti guma

**ISO 10571:2016 en**

Tyres for mobile cranes and similar specialized machines

Gume za pokretne dizalice i slične posebne strojeve

**ISO 11898-1:2015 en**

Road vehicles – Controller area network (CAN) – Part 1: Data link layer and physical signalling  
Cestovna vozila – Regulator mrežnog područja (CAN) – 1. dio: Sloj veze između podataka i fizička signalizacija

**ISO 12103-1:2016 en**

Road vehicles – Test contaminants for filter evaluation – Part 1: Arizona test dust  
Cestovna vozila – Ispitni onečišćivači za ocjenjivanje filtra – 1. dio: Ispitna prašina „Arizona“

**FprEN ISO 14469-1 en**

Road vehicles – Compressed natural gas (CNG) refuelling connector – Part 1: 20 MPa (200 bar) connector (ISO 14469-1:2004)  
Cestovna vozila – Priključak za punjenje stlačenim prirodnim plinom (SPP) – 1. dio: Priključak za 20 MPa (200 bar) (ISO 14469-1:2004)

**FprEN ISO 14469-2 en**

Road vehicles – Compressed natural gas (CNG) refuelling connector – Part 2: 20 MPa (200 bar) connector, size 2 (ISO 14469-2:2007)  
Cestovna vozila – Priključak za punjenje stlačenim prirodnim plinom (SPP) – 2. dio: Priključak za 20 MPa (200 bar), veličina 2 (ISO 14469-2:2007)

**ISO 15031-3:2016 en**

Road vehicles – Communication between vehicle and external equipment for emissions-related diagnostics – Part 3: Diagnostic connector and related electrical circuits: Specification and use  
Cestovna vozila – Prijenos podataka između vozila i vanjske opreme za dijagnostiku koja se odnosi na emisiju – 3. dio: Spojnik za dijagnostiku i odgovarajući strujni krugovi: specifikacija i uporaba

**ISO 15500-1:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 1: General requirements and definitions  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 1. dio: Opći zahtjevi i definicije

**ISO 15500-7:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 7: Gas injector  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 7. dio: Ubrizgač plina

**ISO 15500-8:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 8: Pressure indicator  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 8. dio: Tlakomjer

**ISO 15500-10:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 10: Gas-flow adjuster  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 10. dio: Regulator protoka

**ISO 15500-11:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 11: Gas/air mixer  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 11. dio: Mješač plin/zrak

**ISO 15500-12:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 12: Pressure relief valve (PRV)  
Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 12. dio: Sigurnosni ventil za osiguranje od previsokog tlaka

**ISO 15500-15:2015 en**

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 15: Gas-tight housing and ventilation hose

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 15. dio: Plinonepropusno kućište i cijevi za prozračivanje

**FprEN ISO 18246 en**

Electrically propelled mopeds and motorcycles – Safety requirements for conductive connection to an external electric power supply (ISO 18246:2015)

Mopedi i motocikli na električni pogon – Sigurnosni zahtjevi za vodljivi priključak za vanjsko električno napajanje (ISO 18246:2015)

**HZN/TO 28, *Naftni proizvodi i maziva*****EN 228:2012/FprA1 en**

Automotive fuels – Unleaded petrol – Requirements and test methods

Goriva za motorna vozila – Bezolovni motorni benzin – Zahtjevi i metode ispitivanja

**prEN 13016-1 en**

Liquid petroleum products – Vapour pressure – Part 1: Determination of air saturated vapour pressure (ASVP) and calculated dry vapour pressure equivalent (DVPE)

Tekući naftni proizvodi – Tlak para – 1. dio: Određivanje tlaka para ugljikovodika zasićenih zrakom (ASVP) i izračunavanje tlaka para ugljikovodika u suhom zraku (DVPE)

**prEN 13016-3 en**

Liquid petroleum products – Vapour pressure – Part 3: Determination of vapour pressure and calculated dry vapour pressure equivalent (DVPE) (Triple Expansion Method)

**prEN 17057 en**

Automotive fuels and fat and oil derivates – Determination of saturated monoglycerides content in Fatty Acid methyl Esters (FAME) – Method by GC-FID

**HZN/TO 34, *Poljoprivredni i prehrambeni proizvodi*****ISO 1871:2009 en**

Food and feed products – General guidelines for the determination of nitrogen by the Kjeldahl method  
Poljoprivredni i prehrambeni proizvodi – Opće upute za određivanje dušika Kjeldahlovom metodom

**ISO 10727:2002 en**

Tea and instant tea in solid form – Determination of caffeine content – Method using high-performance liquid chromatography

Čaj i instant-čaj u krutome obliku – Određivanje sadržaja kofeina – Metoda tekuće kromatografije visokog učinka

**HZN/TO 35, *Boje i lakovi*****prEN 927-6 en**

Paints and varnishes – Coating materials and coating systems for exterior wood – Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water

Boje i lakovi – Premazna sredstva i premazni sustavi za drvo u vanjskim prostorima – 6. dio: Izloženost premaza za obradu drva umjetnom starenju uporabom fluorescentnih UV lampi i vode

**HZN/TO 37, *Terminologija*****prEN ISO 20108 en**

Simultaneous interpreting – Quality and transmission of sound and image input – Requirements (ISO/DIS 20108:2016)

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

### **prEN ISO 13918 en**

Welding – Studs and ceramic ferrules for arc stud welding (ISO/DIS 13918:2016)  
Zavarivanje – Svornjaci i keramički prstenovi za elektrolučno zavarivanje svornjaka  
(ISO/DIS 13918:2016)

### **prEN ISO 14271 en**

Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds (ISO/DIS 14271:2016)  
Elektrootporno zavarivanje – Ispitivanje tvrdoće prema Vickersu (malo opterećenje i mikrotvrdoća) elektrootporno zavarenih točkastih, bradavičastih i šavnih spojeva (ISO/DIS 14271:2016)

## **HN/T 69, Primjena statističkih metoda**

### **ISO 8422:2006 en**

Sequential sampling plans for inspection by attributes  
Planovi sekvencijskog uzorkovanja pri pregledima prema obilježjima

### **ISO 13528:2015 en**

Statistical methods for use in proficiency testing by interlaboratory comparison  
Statističke metode pri ispitivanju sposobnosti putem međulaboratorijske usporedbe

### **ISO 18414:2006 en**

Acceptance sampling procedures by attributes – Accept-zero sampling system based on credit principle for controlling outgoing quality  
Postupci uzorkovanja za prihvatanje po obilježjima – Sustav uzorkovanja za prihvatanje bez jedne greške ("accept-zero") koji se temelji na kreditnomu načelu za nadzor izlazne kvalitete

### **ISO 21247:2005 en**

Combined accept-zero sampling systems and process control procedures for product acceptance  
Složeni sustavi uzorkovanja za prihvatanje bez jedne greške ("accept-zero") i postupci nadzora procesa za prihvatanje proizvoda

### **ISO/FDIS 21748 en**

Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty evaluation  
Upute za uporabu procjena ponovljivosti, obnovljivosti i istinitosti u procjenjivanju mjerne nesigurnosti

### **ISO 22514-4:2016 en**

Statistical methods in process management – Capability and performance – Part 4: Process capability estimates and performance measures  
Statističke metode pri upravljanju procesima – Sposobnost i izvedba – 4. dio: Procjene sposobnosti procesa i mjere izvedbe

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

### **prEN 13771-2 en**

Compressors and condensing units for refrigeration – Performance testing and test methods – Part 2: Condensing units  
Kompresori i kondenzacijske jedinice za hlađenje – Ispitivanje značajka i metode ispitivanja – 2. dio: Kondenzacijske jedinice

## **HN/T 92, Zaštita od požara**

### **prEN 15254-5 en**

Extended application of results from fire resistance tests – Non-loadbearing walls – Part 5: Metal sandwich panel construction

Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 5. dio: Konstrukcija metalnih sendvič panela

### **prEN 15269-11 en**

Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 11: Fire resistance for operable fabric curtains

Proširena primjena rezultata ispitivanja otpornosti na požar i/ili dimopropusnosti vrata, zaslona i prozora koji se mogu otvarati, uključujući pripadajući okov – 11. dio: Otpornost na požar zavjesa od tkanine koje se otvaraju

## **HN/T 108, Mehaničke vibracije i udari**

### **EN ISO 28927-4:2010/prA1 en**

Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 4: Straight grinders – Amendment 1: Cupped wire brushes (ISO 28927-4:2010/DAM 1:2016)

Ručni prijenosni strojni alati – Metode ispitivanja za vrednovanje emisije vibracije – 4. dio: Ravne brusilice – Amandman 1: Konusne žičane četke (ISO 28927-4:2010/DAM 1:2016)

## **HN/T 121, Anestetička i respiracijska oprema**

### **EN ISO 10079-1:2015/prA1 en**

Medical suction equipment – Part 1: Electrically powered suction equipment (ISO 10079-1:2015/DAM 1:2016)

Medicinska usisna oprema – 1. dio: Električno pogonjena usisna oprema (ISO 10079-1:2015/DAM 1:2016)

### **prEN ISO 80601-2-61 en**

Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment (ISO/DIS 80601-2-61:2016)

Medicinski električni uređaji – Dio 2-61: Posebni zahtjevi za osnovnu sigurnost i nužne značajke uređaja puls oximeta (ISO/DIS 80601-2-61:2016)

## **HN/T 126, Duhan i duhanski proizvodi**

### **ISO 20773:2013 en**

Cigarettes – Determination of nicotine-free dry particulate matter and nicotine in sidestream smoke – Method using a routine analytical linear smoking machine equipped with a fishtail chimney

Cigarette – Određivanje nikotina i suhog dimnog kondenzata bez nikotina u sporednoj struji dima – Metoda u kojoj se primjenjuje rutinski analitički stroj za linearno pušenje opremljen ispušnom cijevi u obliku ribljeg repa

### **ISO 20774:2013 en**

Cigarettes – Determination of carbon monoxide in sidestream smoke – Method using a routine analytical linear smoking machine equipped with a fishtail chimney

Cigarette – Određivanje ugljičnog monoksida u sporednoj struji dima – Metoda u kojoj se primjenjuje rutinski analitički stroj za linearno pušenje opremljen ispušnom cijevi u obliku ribljeg repa

## **HN/T0 130, Grafička tehnologija**

### **ISO 12647-6:2012/Amd 1:2015 en**

Graphic technology – Process control for the production of half-tone colour separations, proofs and production prints – Part 6: Flexographic printing

Grafička tehnologija – Kontrola procesa pri izradi kolornih rasterskih separacija; probnih otisaka i proizvodnih otisaka – 6. dio: Fleksografski tisk

## **HN/T0 134, Gnojiva i poboljšivači tla**

### **ISO 8157:2015 en**

Fertilizers and soil conditioners – Vocabulary

Gnojiva i poboljšivači tla – Terminološki rječnik

## **HN/T0 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

### **EN 1329-1:2014/prA1 en**

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes, fittings and the system

Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi, spojnice i sustav

## **HN/T0 145, Grafički simboli**

### **ISO 7001:2007/Amd 2:2015 en**

Graphical symbols – Public information symbols

Grafički simboli – Simboli javnog obavješćivanja

### **ISO 7001:2007/Amd 3:2016 en**

Graphical symbols – Public information symbols

Grafički simboli – Simboli javnog obavješćivanja

## **HN/T0 146, Kvaliteta zraka**

### **prEN 17058 en**

Workplace exposure – Assessment of inhalation exposure to nano-objects and their agglomerates and aggregates

## **HN/T0 163, Toplinska izolacija**

### **prEN ISO 12631 en**

Thermal performance of curtain walling – Calculation of thermal transmittance (ISO/FDIS 12631:2016)

Toplinska svojstva ovešene fasade – Proračun koeficijenta prolaska topline (ISO/FDIS 12631:2016)

### **prEN 14064-1 en**

Thermal insulation products for buildings – In-situ formed loose-fill mineral wool (MW) products – Part 1: Specification for the loose-fill products before installation

Toplinsko-izolacijski proizvodi za zgrade – Nevezani proizvodi od mineralne vune (MW) oblikovani na mjestu primjene – 1. dio: Specifikacija za nevezane proizvode prije ugradnje

## **HN/T0 172, Optika i optički instrumenti**

### **prEN ISO 8596 en**

Ophthalmic optics – Visual acuity testing – Standard and clinical optotypes and their presentation (ISO/DIS 8596:2016)

**prEN ISO 10939 en**

Ophthalmic instruments – Slit-lamp microscopes (ISO/FDIS 10939:2016)

Oftalmološki instrumenti – Mikroskopi s procjepnom svjetiljkom (ISO/FDIS 10939:2016)

**prEN ISO 11986 en**

Ophthalmic optics – Contact lenses and contact lens care products – Determination of preservative uptake and release (ISO/DIS 11986:2016)

Oftalmološka optika – Kontaktne leće i proizvodi za održavanje kontaktnih leća – Određivanje djelovanja i slabljenja sredstava zaštite (ISO/DIS 11986:2016)

**HZN/TO 181, Sigurnost igračaka i proizvodi za djecu****EN 71-1:2014/prA2 en**

Safety of toys – Part 1: Mechanical and physical properties

Sigurnost igračaka – 1. dio: Mehanička i fizikalna svojstva

**EN 71-3:2013+A1:2014/prA2 en**

Safety of toys – Part 3: Migration of certain elements

Sigurnost igračaka – 3. dio: Otpuštanje određenih elemenata

**EN 71-7:2014/prA1 en**

Safety of toys – Part 7: Finger paints – Requirements and test methods

Sigurnost igračaka – 7. dio: Bojila za bojenje prstima – Zahtjevi i metode ispitivanja

**prEN 1888-2 en**

Child care articles – Wheeled child conveyances – Part 2: Pushchairs for heavier children

**HZN/TO 182, Geotehničke konstrukcije****prEN ISO 22477-4 en**

Geotechnical investigation and testing – Testing of geotechnical structures – Part 4: Testing of piles: dynamic load testing (ISO/DIS 22477-4:2016)

Geotehničko istraživanje i ispitivanje – Ispitivanje geotehničkih konstrukcija – 4. dio: Ispitivanje pilota: Dinamičko ispitivanje (ISO/DIS 22477-4:2016)

**HZN/TO 207, Upravljanje okolišem****EN ISO 14044:2006/prA1 en**

Environmental management – Life cycle assessment – Requirements and guidelines (ISO 14044:2006/DAM 1:2016)

Upravljanje okolišem – Procjena životnog ciklusa (LCA) – Zahtjevi i smjernice (ISO 14044:2006/DAM 1:2016)

**HZN/TO 211, Geoinformacije/Geomatika****prEN ISO 19136-2 en**

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

**HZN/TO 219, Podne obloge****prEN ISO 9405 en**

Textile floor coverings – Assessment of changes in appearance (ISO 9405:2015)

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

### **prEN ISO 13426-1 en**

Geotextiles and geotextile-related products – Strength of internal structural junctions – Part 1: Geocells (ISO/DIS 13426-1)  
Geotekstili i proizvodi srođni s geotekstilom – Čvrstoća unutarnjih strukturnih spojeva – 1. dio: Geoćelije (ISO/DIS 13426-1)

## **HN/T 502, Plinski uređaji**

### **prEN ISO 20765-1 en**

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

### **prEN ISO 20765-2 en**

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

### **prEN ISO 23874 en**

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

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

### **prEN ISO 2143 en**

Anodizing of aluminium and its alloys – Estimation of loss of absorptive power of anodic oxidation coatings after sealing – Dye-spot test with prior acid treatment (ISO/DIS 2143:2016)  
Anodna obrada aluminija i aluminijevih legura – Procjena gubitka apsorpcijske sposobnosti prevlaka anodnom oksidacijom nakon brtvljenja – Točkasto ispitivanje prije obrade kiselinom (ISO/DIS 2143:2016)

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

### **prEN ISO 8401 en**

Metallic coatings – Review of methods of measurement of ductility (ISO/FDIS 8401:2016)  
Metalne prevlake – Pregled metoda mjerjenja žilavosti (ISO/FDIS 8401:2016)

### **prEN ISO 28706-3 en**

Vitreous and porcelain enamels – Determination of resistance to chemical corrosion – Part 3: Determination of resistance to chemical corrosion by alkaline liquids using a hexagonal vessel or a tetragonal glass bottle (ISO/DIS 28706-3:2016)

## **HN/T 509, Cestovna oprema**

### **prEN 1793-2 en**

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

### **prEN 1793-6 en**

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

## **HN/T 513, Mjerni jedinice i mjerila**

### **ISO 6420:2016 en**

Hydrometry – Position fixing equipment for hydrometric boats

Hidrometrija – Oprema za određivanje položaja hidrometrijskih plovila

### **ISO 15901-1:2016 en**

Evaluation of pore size distribution and porosity of solid materials by mercury porosimetry and gas adsorption – Part 1: Mercury porosimetry

Procjena raspodjele veličine pora i poroznosti krutih materijala živinim porozimetrom i plinskom adsorpcijom – 1. dio: Živin porozimetar

### **prEN ISO 80000-4 en**

Quantities and units – Part 4: Mechanics (ISO/DIS 80000-4:2016)

Veličine i jedinice – 4. dio: Mehanika (ISO/DIS 80000-4:2016)

## **HN/T 519, Adhezivi**

### **prEN ISO 10364 en**

Structural adhesives – Determination of the pot life (working life) of multi-component adhesives (ISO 10364:2015)

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

### **prEN ISO 16410-1 en**

Electronic fee collection – Evaluation of equipment for conformity to ISO 17575-3 – Part 1: Test suite structure and test purposes (ISO/DIS 16410-1:2016)

Elektronička naplata – Vrednovanje opreme za utvrđivanje sukladnosti s normom ISO 17575-3 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/DIS 16410-1:2016)

### **prEN ISO 17427-1 en**

Intelligent transport systems – Cooperative ITS – Part 1: Roles and responsibilities in the context of co-operative ITS architecture(s) (ISO/DIS 17427-1)

Inteligentni transportni sustavi – Kooperativni ITS – 1. dio: Uloge i odgovornosti u kontekstu arhitekture kooperativnih ITS-a (ISO/DIS 17427-1)

## **HN/T 528, Oprema za željeznice**

### **prEN 14535-1 en**

Railway applications – Brake discs for railway rolling stock – Part 1: Brake discs pressed or shrunk onto the axle or drive shaft, dimensions and quality requirements

Željeznički sustav – Kočni diskovi za vozni park – 1. dio: Kočni diskovi, naprešani ili toplo navučeni na osovine ili vratila, dimenzije i zahtjevi za kvalitetu

### **prEN 14535-2 en**

Railway applications – Brake discs for railway rolling stock – Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements

Željeznički sustav – Kočni diskovi za vozni park – 2. dio: Kočni diskovi, postavljeni na kotače, dimenzije i zahtjevi za kvalitetu

### **prEN 15227 en**

Railway applications – Crashworthiness requirements for railway vehicle bodies

Željeznički sustav – Zahtjevi za otpornost na sudare sanduka željezničkih vozila

### **prEN 17065 en**

Railway applications – Braking – Passenger coach test procedure

Željeznički sustav – Kočenje – Postupci ispitivanja putničkih vagona

## **HN/T 531, Plastika i guma**

### **prEN 477 en**

Unplasticized poly(vinyl chloride) (PVC-U) profiles – Determination of the resistance to impact of profiles by falling mass

Profili od neomekšanog poli(vinil-klorida) (PVC-U) – Određivanje otpornosti glavnih profila na udar padajućeg tijela

### **prEN 478 en**

Unplasticized poly(vinyl chloride) (PVC-U) profiles – Appearance after exposure at 150 °C – Test method

Profili od neomekšanog poli(vinil-klorida) (PVC-U) – Izgled nakon izlaganja na 150 °C – Metode ispitivanja

### **prEN 479 en**

Unplasticized poly(vinyl chloride) (PVC-U) profiles – Determination of heat reversion

Profili od neomekšanog poli(vinil-klorida) (PVC-U) – Određivanje skupljanja na toplini

### **prEN 514 en**

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors – Determination of the strength of welded corners and T-joints

Profili od neomekšanog poli(vinil-klorida) (PVC-U) za proizvodnju prozora i vrata – Određivanje čvrstoće zavarenih uglova i T-spojeva

### **prEN 13765 en**

Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals – Specification

Plastomerna višeslojna neumrežena crijeva i crijevni pribori za prijenos ugljikovodika, otapala i kemikalija – Specifikacija

### **prEN 13766 en**

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

Plastomerna, višeslojna, neumrežena crijeva i crijevni pribori za prijenos ukapljenoga naftnog plina i ukapljenoga prirodnog plina – Specifikacija

## **HN/T 532, Dimnjaci**

### **prEN 13216-1 en**

Chimneys – Test methods for system chimneys – Part 1: General test methods

Dimnjaci – Metode ispitivanja za sustave dimnjaka – 1. dio: Opće metode ispitivanja

### **prEN 16475-1 en**

Chimneys – Accessories – Part 1: Chimney silencers – Requirements and test methods

Dimnjaci – Pribor – 1. dio: Prigušivači za dimnjak – Zahtjevi i metode ispitivanja

## **HN/T 536, Vrata, prozori i staklo u graditeljstvu**

### **FprEN 1096-4 en**

Glass in building – Coated glass – Part 4: Product standard

Staklo u graditeljstvu – Staklo s premazom – 4. dio: Norma za proizvod

### **prEN 1125 en**

Build hardware – Panic exit devices operated by a horizontal bar, for use on escape routes – Requirements and test methods

Građevni okovi – Dijelovi izlaza za nuždu s pritisnom šipkom za upotrebu na evakuacijskim putovima – Zahtjevi i metode ispitivanja

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

### **prEN ISO 6413 en**

Technical product documentation – Representation of splines and serrations (ISO/DIS 6413:2016)  
Tehnički crteži – Prikaz spojeva sa zupčastim i klinastim vratilima (ISO/DIS 6413:2016)

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

### **EN 14476:2013+A1:2015/prA2 en**

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area – Test method and requirements (Phase 2/Step 1)  
Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu virucidne djelotvornosti u medicini – Metoda ispitivanja i zahtjevi (faza 2, korak 1)

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

### **prEN 17038-1 en**

Pumps – Methods of qualification and verification of the Energy Efficiency Index for rotodynamic pumps units – Part 1: General requirements and procedures for testing and calculation of energy efficiency index (EEI)

Pumpe – Metoda kvalifikacije i verifikacije indeksa energijske učinkovitosti za jedinice rotacijskih pumpi – 1. dio: Opći zahtjevi i postupci za ispitivanje i proračun indeksa energijske učinkovitosti (EEI)

### **prEN 17038-2 en**

Pumps – Methods of qualification and verification of the Energy Efficiency Index for rotodynamic pumps units – Part 2: Testing and calculation of energy Efficiency Index (EEI) of single pump units

Pumpe – Metoda kvalifikacije i verifikacije indeksa energijske činkovitosti za jedinice rotacijskih pumpi – 2. dio: Ispitivanje i proračun indeksa energijske učinkovitosti (EEI) pojedinačnih jedinica pumpi

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

### **prEN 13077 en**

Devices to prevent pollution by backflow of potable water – Air gap with non-circular overflow (unrestricted) – Family A – Type B  
Uređaji za sprječavanje onečišćenja vode za piće zbog povratnog toka – Zračni razmak (neograničeni) za preljev koji nije kružnog oblika – Skupina A – Tip B

## **HZN/TO 551, Gradnja**

### **FprCEN/TR 17068 en**

Sealants for non-structural use in joints in buildings and pedestrian walkways – Guidance for CE marking and Declaration of Performance (DoP)

Brtвila za nekonstrukcijsku uporabu za spojeve u zgradama i pješачkim stazama – Smjernice za označavanje oznakom CE i izjavu o svojstvima

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

### **ISO/DIS 20400 en**

Sustainable procurement – Guidance  
Održiva nabava – Upute

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

### **prEN ISO 6710 en**

Single-use containers for venous blood specimen collection (ISO/DIS 6710:2016)

**prEN ISO 14644-3 en**

Cleanrooms and associated controlled environments – Part 3: Test methods (ISO/DIS 14644-3:2016)  
Čisti prostori i odgovarajući kontrolirani okoliš – 3. dio: Ispitne metode (ISO/DIS 14644-3:2016)

**prEN ISO 18472 en**

Sterilization of health care products – Biological and chemical indicators – Test equipment  
(ISO/DIS 18472:2016)

Sterilizacija medicinskih proizvoda – Biološki i kemijski indikatori – Ispitna oprema  
(ISO/DIS 18472:2016)

**HN/T 557, Zaštitna odjeća****prEN 1149-5 en**

Protective clothing – Electrostatic properties – Part 5: Material performance and design requirements  
Zaštitna odjeća – Elektrostatička svojstva – 5. dio: Zahtjevi za svojstva materijala i dizajn

**prEN ISO 15384 en**

Protective clothing for firefighters – Laboratory test methods and performance requirements for  
wildland firefighting clothing (ISO/DIS 15384:2016)

**HN/T 559, Zaporni, regulacijski i sigurnosni uređaji****EN 12516-1:2014/prA1 en**

Industrial valves – Shell design strength – Part 1: Tabulation method for steel valve shells  
Industrijski zaporni uređaji – Projektna čvrstoća kućišta – 1. dio: Tablična metoda za kućišta zapornih  
uređaja od čelika

**EN 12516-4:2014/prA1 en**

Industrial valves – Shell design strength – Part 4: Calculation method for valve shells manufactured in  
metallic materials other than steel  
Industrijski zaporni uređaji – Projektna čvrstoća kućišta – 4. dio: Metoda proračuna kućišta zapornih  
uređaja izrađenih od metalnih materijala osim čelika

**HN/T 560, Tekstilni proizvodi****prEN ISO 1833-4 en**

Textiles – Quantitative chemical analysis – Part 4: Mixtures of certain protein and certain other fibres  
(method using hypochlorite) (ISO/DIS 1833-4:2016)  
Tekstil – Kvantitativna kemijska analiza – 4. dio: Mješavine određenih proteinskih i određenih drugih  
vlakana (metoda s uporabom hipoklorita) (ISO/DIS 1833-4:2016)

**prEN ISO 1833-7 en**

Textiles – Quantitative chemical analysis – Part 7: Mixtures of polyamide and certain other fibres  
(method using formic acid) (ISO/DIS 1833-7:2016)  
Tekstil – Kvantitativna kemijska analiza – 7. dio: Mješavine poliamidnih i određenih ostalih vlakana  
(metoda s uporabom mravlje kiseline) (ISO/DIS 1833-7:2016)

**prEN ISO 1833-11 en**

Textiles – Quantitative chemical analysis – Part 11: Mixtures of certain cellulose fibres with certain  
other fibres (method using sulfuric acid) (ISO/DIS 1833-11:2016)  
Tekstil – Kvantitativna kemijska analiza – 11. dio: Mješavine određenih celuloznih s određenim drugim  
vlaknima (metoda s uporabom sulfatne kiseline) (ISO/DIS 1833-11:2016)

**prEN ISO 32100 en**

Rubber- or plastics-coated fabrics – Physical and mechanical tests – Determination of flex resistance  
by the flexometer method (ISO/DIS 32100:2016)  
Gumom ili plastikom naslojen plošni tekstil – Fizikalna i mehanička ispitivanja – Određivanje otpornosti  
na savijanje metodom fleksometra (ISO/DIS 32100:2016)

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

### **prEN 12542 en**

LPG equipment and accessories – Static welded steel cylindrical tanks, serially produced for the storage of Liquefied Petroleum Gas (LPG) having a volume not greater than 13 m<sup>3</sup> – Design and manufacture

Oprema i pribor za UNP – Stabilni, zavareni čelični cilindrični spremnici, serijski proizvedeni za skladištenje ukapljenog naftnog plina (UNP) volumena do 13 m<sup>3</sup> – Projektiranje i proizvodnja

### **EN 13480-4:2012/prA5 en**

Metallic industrial piping – Part 4: Fabrication and installation  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja

## **HZN/TO 563, Sigurnost strojeva**

### **EN ISO 11111-1:2016 en**

Textile machinery – Safety requirements – Part 1: Common requirements (ISO 11111-1:2016)  
Tekstilni strojevi – Sigurnosni zahtjevi – 1. dio: Opći zahtjevi (ISO 11111-1:2016)

### **prEN 17059 en**

Plating and anodizing lines – Safety requirements

## **HZN/TO 564, Uljarice, biljna i životinjska ulja i masti**

### **prEN ISO 663 en**

Animal and vegetable fats and oils – Determination of insoluble impurities content  
(ISO/CDIS 663:2016)

Životinjske i biljne masti i ulja – Određivanje količine netopljivih nečistoća  
(ISO/CDIS 663:2016)

### **prEN ISO 3960 en**

Animal and vegetable fats and oils – Determination of peroxide value – Iodometric (visual) endpoint determination (ISO/CDIS 3960:2016)

Životinjske i biljne masti i ulja – Određivanje peroksidnog broja – Jodometrijsko određivanje točke završetka (ISO/CDIS 3960:2016)

### **prEN ISO 6320 en**

Animal and vegetable fats and oils – Determination of refractive index (ISO/CDIS 6320:2016)

Životinjske i biljne masti i ulja – Određivanje indeksa refrakcije (ISO/CDIS 6320:2016)

### **prEN ISO 6883 en**

Animal and vegetable fats and oils – Determination of conventional mass per volume (litre weight in air) (ISO/CDIS 6883:2016)

Životinjske i biljne masti i ulja – Određivanje uobičajene obujamske mase ("težina jedne litre u zraku")  
(ISO/CDIS 6883:2016)

### **prEN ISO 8534 en**

Animal and vegetable fats and oils – Determination of water content – Karl Fischer method (pyridine free) (ISO/CDIS 8534:2016)

Životinjske i biljne masti i ulja – Određivanje količine vode – Karl Fischer metoda (bez piridina)  
(ISO/CDIS 8534:2016)

### **prEN ISO 15774 en**

Animal and vegetable fats and oils – Determination of cadmium content by direct graphite furnace atomic absorption spectrometry (ISO/CDIS 15774:2016)

Životinjske i biljne masti i ulja – Određivanje količine kadmija izravnom grafitnom tehnikom atomske apsorpcijske spektrometrije (ISO/CDIS 15774:2016)

## **HN/T 566, Mlijeko i mliječni proizvodi**

### **ISO 2920:2004 en**

Whey cheese – Determination of dry matter (Reference method)  
Sirutkin sir – Određivanje ukupne količine suhe tvari (Referentna metoda)

### **ISO 6731:2010 en**

Milk, cream and evaporated milk – Determination of total solids content (Reference method)  
Mlijeko, vrhnje i evaporirano mlijeko – Određivanje ukupne količine suhe tvari (Referentna metoda)

### **ISO 6734:2010 en**

Sweetened condensed milk – Determination of total solids content (Reference method)  
Zaslađeno kondenzirano mlijeko – Određivanje ukupne količine suhe tvari (Referentna metoda)

### **ISO 9622:2013 en**

Milk and liquid milk products – Guidelines for the application of mid-infrared spectrometry  
Mlijeko i tekući mliječni proizvodi – Smjernice za primjenu infracrvene spektometrije u srednjem infracrvenom području

### **ISO 15174:2012 en**

Milk and milk products – Microbial coagulants – Determination of total milk-clotting activity  
Mlijeko i mliječni proizvodi – Mikrobnii koagulanti – Određivanje ukupne aktivnosti zgrušavanja mlijeka

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

### **prEN ISO 18593 en**

Microbiology of the food chain – Horizontal methods for sampling techniques from surfaces using contact plates and swabs (ISO/DIS 18593:2016)

## **HN/T 569, Hrana za životinje**

### **prEN 17049 en**

Identification of tylosin, spiramycin, virginiamycin, carbadox and olaquindox at sub-additive levels in compound feed – Confirmatory analysis by LCMS  
Otkrivanje tilozina, spiramicina, virginijamicina, karbadoksa i olakvindoksa na razini nižoj od aditiva u krmnim smjesama – Analiza za potvrđivanje metodom LCMS

### **prEN 17050 en**

Animal feeding stuffs – Methods of sampling and analysis – Determination of iodine in animal feed by anion-exchange ICP-MS  
Hrana za životinje – Metode uzorkovanja i analize – Određivanje joda primjenom anionskog izmjenjivača ICP-MS

### **prEN 17053 en**

Animal feeding stuffs: Methods of sampling and analysis – Determination of trace elements, heavy metals and other elements in feed by ICP-MS (multi-method)  
Hrana za životinje: Metode uzorkovanja i analize – Određivanje elemenata u tragovima, teških metala i ostalih elemenata u hrani metodom ICP-MS (multimetoda)

## **HN/T 571, Sport, igrališta i ostali rekreativski sadržaji i oprema**

### **prEN 1177 en**

Impact attenuating playground surfacing – Methods of test for determination of impact attenuation

**prEN 13451-11 en**

Swimming pool equipment – Part 11: Additional specific safety requirements and test methods for moveable pool floors and moveable bulkheads

Oprema za bazene – 11. dio: Dodatni posebni sigurnosni zahtjevi i metode ispitivanja za pomične bazenske podove i pomične pregrade

**prEN 14974 en**

Skateparks – Safety requirements and test methods

**prEN ISO 20380 en**

Public swimming pools – Computer vision systems for the detection of drowning accidents in swimming pools – Safety requirements and test methods (ISO/DIS 20380:2016)

**HN/TN E2, *Rotacijski strojevi*****prEN 60034-27-4:2016 en**

Rotating electrical machines – Part 27-4: Measurement of insulation resistance and polarization index of winding insulation of rotating electrical machines (IEC 60034-27-4:201X)

**HN/TN E9, *Električna oprema za željeznicu*****FprEN 50121-5 en**

Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus

Željeznički sustav – Elektromagnetska kompatibilnost – 5. dio: Emisija i otpornost stabilnih postrojenja za napajanje i uređaja

**EN 50122-1:2011/A3:2016 en**

Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock

Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mјere protiv električnog udara

**prEN 50129:2016 en**

Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signalling

Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Elektronički sustavi za signalnu tehniku povezani sa sigurnošću

**prEN 50318 en**

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

Željeznički sustav – Sustavi oduzimača struje – Vrednovanje simulacije dinamičkog međudjelovanja između pantografa i kontaktog voda

**EN 50343:2014/prAA:2016 en**

Railway applications – Rolling stock – Rules for installation of cabling

Željeznički sustav – Željeznička vozila – Pravila instaliranja ožičenja

**EN 50405:2015/A1:2016 en**

Railway applications – Current collection systems – Pantographs, testing methods for contact strips

Željeznički sustav – Sustavi oduzimača struje – Pantografi, načini ispitivanja grafitnih klizača

**EN 50533:2011/A1:2016 en**

Railway applications – Three-phase train line voltage characteristics

Željeznički sustav – Naponske karakteristike trofaznog željezničkog voda

**EN 62621:2016/A1:2016 en**

Railway applications – Fixed installations – Electric traction – Specific requirements for composite insulators used for overhead contact line systems  
Željeznički sustav – Stabilna postrojenja – Električna vuča – Posebni zahtjevi za kompozitne izolatore za sustave nadzemnih kontaktnih vodova

**HNZ/TO E11, Nadzemni vodovi****EN 50341-2-16:2016 en**

Overhead electrical lines exceeding AC 1 kV – Part 2-16: National Normative Aspects (NNA) for NORWAY (based on EN 50341-1:2012)

**EN 50341-2-18:2016 en**

Overhead electrical lines exceeding AC 1 kV – Part 2-18: National Normative Aspects (NNA) for Sweden (based on EN 50341-1:2012)

**EN 50341-2-23:2016 en**

Overhead electrical lines exceeding AC 1 kV – Part 2-23: National Normative Aspects (NNA) for SLOVAKIA (based on EN 50341-1:2012)

**HNZ/TO E13, Oprema za mjerjenje električne energije te upravljanje tarifom i potrošnjom****prEN 62056-8-5:2016 en**

Electricity metering data exchange – The DLMS/COSEM suite – Part 8-5: Narrow-band OFDM G3-PLC communication profile for neighbourhood networks (IEC 62056-8-5:201X)

**HNZ/TO E17, Sklopni i upravljački uređaji****prEN 62271-110:2016 en**

High-voltage switchgear and controlgear – Part 110: Inductive load switching (IEC 62271-110:201X)  
Visokonaponska sklopna aparatura – 110. dio: Sklapanje induktivnih tereta (IEC 62271-110:201X)

**HNZ/TO E31, Eksplozivne atmosfere****FprEN 60079-30-1 en**

Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements (IEC/IEEE 60079-30-1:2015)  
Eksplozivne atmosfere – Dio 30-1: Električno otporni grijajući kabeli – Opći i ispitni zahtjevi (IEC/IEEE 60079-30-1:2015)

**FprEN 60079-30-2 en**

Explosive atmospheres – Part 30-2: Electrical resistance trace heating – Application guide for design, installation and maintenance (IEC/IEEE 60079-30-2:2015)  
Eksplozivne atmosfere – Dio 30-2: Električno otporni grijajući kabeli – Upute za projektiranje, instalaciju i održavanje (IEC/IEEE 60079-30-2:2015)

**HNZ/TO E34, Žarulje, svjetiljke i pripadna oprema****EN 60598-2-22:2014/prA1:2016 en**

Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (IEC 60598-2-22:2014/am1:201X)  
Svjetiljke – Dio 2-22: Posebni zahtjevi – Svjetiljke za rasvjetu u slučaju opasnosti (IEC 60598-2-22:2014/am1:201X)

**EN 61347-2-7:2012/prA1:2016 en**

Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) (IEC 61347-2-7:2011/am1:201X)

Predspojne naprave – Dio 2-7: Posebni zahtjevi za predspojne naprave za rasvjetu u slučaju nužde (autonomnu) koje se napajaju baterijama (IEC 61347-2-7:2011/am1:201X)

**prEN 62386-332:2016 en**

Digital addressable lighting interface – Part 332: Particular requirements – Input control devices – Feedback (IEC 62386-332:201X)

**prEN 62386-333:2016 en**

Digital addressable lighting interface – Part 333: Particular requirements for control devices – Manual Configuration (feature type 33) (IEC 62386-333:201X)

**HNZ/TO E61, *Sigurnost električnih kućanskih i sličnih aparata*****prEN 60335-2-102:2016 en**

Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-102: Posebni zahtjevi za aparate na plinovito, uljno i kruto gorivo s električnim priključkom (IEC 60335-2-102:201X)

**prEN 60335-2-40:2016 {fragment 1} en**

Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:201X {fragment 1})

Kućanski i slični električni aparati – Sigurnost – Dio 2-40: Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:201X {fragment 1})

**prEN 60335-2-40:2016 {fragment 2} en**

Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:201X {fragment 2})

Kućanski i slični električni aparati – Sigurnost – Dio 2-40: Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:201X {fragment 2})

**prEN 60335-2-40:2016 {fragment 3} en**

Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:201X {fragment 3})

Kućanski i slični električni aparati – Sigurnost – Dio 2-40: Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:201X {fragment 3})

**EN 60335-2-4:2010/prA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors (IEC 60335-2-4:2008/am2:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-4: Posebni zahtjevi za centrifuge rublja (IEC 60335-2-4:2008/am2:201X)

**prEN 60335-2-43:2016 en**

Household and similar electrical appliances – Safety – Part 2-43: Particular clothes dryers and towel rails (IEC 60335-2-43:201X)

**EN 60335-2-5:2015/prA1:2016 en**

Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers (IEC 60335-2-5:2012/am1:201X)

Kućanski i slični električni aparati – Sigurnost – Dio 2-5: Posebni zahtjevi za perilice posuđa (IEC 60335-2-5:2012/am1:201X)

**prEN 60335-2-58:2016 en**

Household and similar electrical appliances – Safety – Part 2-58: Particular requirements for commercial electric dishwashing machines (IEC 60335-2-58:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-58: Posebni zahtjevi za ugostiteljske električne perilice posuđa (IEC 60335-2-58:201X)

**EN 60335-2-6:2015/prA1:2016 en**

Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances (IEC 60335-2-6:2014/am1:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-6: Posebni zahtjevi za nepomične štednjake, kuhalja, pećnice i slične aparatе (IEC 60335-2-6:2014/am1:201X)

**EN 60335-2-81:2016/prA1:2016 en**

Household and similar electrical appliances – Safety – Part 2-81: Particular requirements for foot warmers and heating mats (IEC 60335-2-81:2015/am1:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-81: Posebni zahtjevi za grijalice nogu i tople hasure (IEC 60335-2-81:2015/am1:201X)

**prEN 60335-2-82:2016 en**

Household and similar electrical appliances – Safety – Part 2-82: Particular requirements for amusement machines and personal service machines (IEC 60335-2-82:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-82: Posebni zahtjevi za zabavne i osobne prodajne automate (IEC 60335-2-82:201X)

**EN 60335-2-95:2015/prA2:2016 en**

Household and similar electrical appliances – Safety – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use (IEC 60335-2-95:2011/am2:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-95: Posebni zahtjevi pogona za okomito pomicanje garažnih vrata u domaćinstvu (IEC 60335-2-95:2011/am2:201X)

**HNZ/TO E62, Električna oprema u medicinskoj praksi****EN 60601-1-3:2008/A11:2016 en**

Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment  
Medicinski električni uređaji – Dio 1-3: Opći zahtjevi za osnovnu sigurnost i bitne radne značajke – Popratna norma: Zaštitu od zračenja u dijagnostičkoj rendgenskoj opremi

**EN 60601-2-33:2010/A12:2016 en**

Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis  
Medicinski električni uređaji – Dio 2-33: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke dijagnostičkih uređaja za magnetsku rezonancu

**HNZ/TO E64, Električne instalacije i zaštita od električnog udara****prHD 60364-7-711:2016 en**

Low voltage electrical installation – Part 7-711: Requirements for special installations or locations – Exhibitions, shows and stands (IEC 60364-7-711:201X)

**HNZ/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa****prEN 61207-3:2016 en**

Expression of Performance of Gas Analyzers – Part 3: Paramagnetic oxygen analysers (IEC 61207-3:201X)

**EN 61511-1:2016/prA1:2016 en**

Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements  
(IEC 61511-1:2016/am1:201X)

Funkcionalna sigurnost – Sigurnosni instrumentacijski sustavi za sektor procesne industrije – 1. dio: Okvir, definicije, zahtjevi za sustav, hardver i programiranje aplikacija (IEC 61511-1:2016/am1:201X)

**prEN 62714-1:2016 en**

Engineering data exchange format for use in industrial automation systems engineering – Automation markup language – Part 1: Architecture and general requirements (IEC 62714-1:201X)  
Format razmjene tehničkih podataka za uporabu u upravljanju industrijskim automatizacijskim sustavima – 1. dio: Arhitektura i opći zahtjevi (IEC 62714-1:201X)

**HNZ/TO E69, Cestovna i industrijska električna vozila****prEN 61851-21-2:2016 en**

Electric vehicle charging system – Part 21-1: EMC requirements for OFF board electric vehicle charging systems (IEC 61851-21-2:201X)

**HNZ/TO E88, Vjetroagregati****prEN 61400-1:2016 en**

Wind energy generation systems – Part 1: Design requirements (IEC 61400-1:201X)

**HNZ/TO E100, Audio, video i multimedijski sustavi te njihova oprema****prEN 50643:2016 en**

Electrical and electronic household and office equipment – Measurement of networked standby power consumption of edge equipment

**prEN 50672 en**

Ecodesign requirements for computers and computer servers

**prEN 62919:2016 en**

Stress Free Content Management – Monitoring and management of personal digital content (TA 8)  
(IEC 62919:201X)

**prEN 63080:2016 en**

Accessibility terms and definitions (IEC 63080:201X)

**HNZ/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama****prEN 61000-3-2:2016 {fragment 1} en**

Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase) (IEC 61000-3-2:201X {fragment 1})  
Elektromagnetska kompatibilnost (EMC) – Dio 3-2: Granice – Granice za harmoničke strujne emisije (za ulazne struje uređaja  $\leq 16$  A po fazi) (IEC 61000-3-2:201X {fragment 1})

**prEN 61000-4-12:2016 en**

Electromagnetic compatibility (EMC) – Part 4-12: Testing and measurement techniques – Ring wave immunity test (IEC 61000-4-12:201X)  
Elektromagnetska kompatibilnost (EMC) – Dio 4-12: Ispitne i mjerne tehnike – Ispitivanje otpornosti na prstenaste valove napona (IEC 61000-4-12:201X)

**EN 61000-4-5:2014/prA1:2016 en**

Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test (IEC 61000-4-5:2014/am1:201X)

Elektromagnetska kompatibilnost (EMC) – Dio 4-5: Ispitne i mjerne tehnike – Ispitivanje otpornosti na udarne prenapone (IEC 61000-4-5:2014/am1:201X)

**HZN/TO E501, Elektroakustika i ultrazvuk****prEN 60942:2016 en**

Electroacoustics – Sound calibrators (Revision of IEC 60942:2003) (IEC 60942:201X)

Elektroakustika - Zvučni kalibratori (Revizija IEC 60942:2003) (IEC 60942:201X)

**HZN/TO T4, Normizacija u telekomunikacijama****Draft EN 300 338-1 V1.4.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 1: Common requirements

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHV pokretnoj službi – 1. dio: Opći zahtjevi

**Draft EN 300 338-2 V1.4.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 2: Class A/B DSC

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHV pokretnoj službi – 2. dio: Klasa A/B DSC

**Draft EN 300 338-3 V1.2.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 3: Class D DSC

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 3. dio: Klasa D DSC

**Draft EN 300 338-4 V1.2.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 4: Class E DSC

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 4. dio: Klasa E DSC

**Draft EN 300 338-5 V1.2.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 5: Handheld VHF Class H DSC

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 5. dio: Ručni VHF klase H DSC

**Draft EN 300 338-6 V1.1.0:2016 en**

Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 6: Handheld VHF Class M DSC

Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 6. dio: Ručni VHF klase M DSC

**Draft EN 300 401 V2.1.1:2016 en**

Radio Broadcasting Systems – Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers

Radiodifuzijski sustavi – Digitalna audio radiodifuzija (DAB) prema pokretnim, prijenosnim i nepokretnim prijamnicima

**Draft EN 300 720 V2.2.0:2016 en**

Ultra-High Frequency (UHF) on-board vessels communications systems and equipment – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

Ultra visoko frekvencijski (UHF) brodski komunikacijski sustavi i oprema; Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 301 025 V2.2.0:2016 en**

VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU

VHF radiotelefonska oprema za opću komunikaciju i pridružena oprema za klasu „D“ digitalnog selektivnoga pozivanja (DSC) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) Direktive 2014/53/EU

**Draft EN 301 489-52 V1.1.0:2016 en**

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1b of Directive 2014/53/EU

Norma za elektromagnetsku kompatibilnost za radijsku opremu i službe – 52. dio: Posebni uvjeti za celularnu komunikaciju pokretnе i prijenosne (UE) radijske i pomoćne opreme – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1b Direktive 2014/53/EU

**Draft EN 301 511 V12.1.10:2016 en**

Global System for Mobile communications (GSM) – Mobile Stations (MS) equipment – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Globalni sustav pokretnih komunikacija (GSM) – Oprema pokretnih stanica (MS) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 i 3.3(g) Direktive 2014/53/EU

**Draft EN 301 893 V2.0.7:2016 en**

5 GHz RLAN – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

5 GHz RLAN – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 301 925 V1.5.0:2016 en**

Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands – Technical characteristics and methods of measurement

Radiotelefonski odašiljači i prijamnici za pomorsku pokretnu službu u VHF frekvencijskim pojasima – Tehničke značajke i metode mjerjenja

**Draft EN 301 929 V2.1.1:2016 en**

VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

VHF odašiljači i prijamnici kao obalne stanice za GMDSS i druge primjene u pomorskoj pokretnoj službi – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 296 V2.0.2:2016 en**

Digital Terrestrial TV Transmitters – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Digitalni zemaljski TV odašiljači – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 502 V2.0.8:2016 en**

Wireless Access Systems (WAS) – 5,8 GHz fixed broadband data transmitting systems – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  
Bežični pristupni sustavi (WAS) – 5,8 GHz nepokretni širokopojasni sustavi prijenosa podataka – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 536 V2.0.1:2016 en**

Short Range Devices (SRD) – Radio equipment operating in the frequency range 315 kHz to 600 kHz for Ultra Low Power Animal Implantable Devices (ULP-AID) and associated peripherals – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  
Uredaji kratkoga dometa (SRD) – Radijska oprema u frekvencijskom području 315 kHz do 600 kHz za životinjske implantate ultra male snage (ULP-AID) i pridruženu perifernu opremu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 608 V2.1.0:2016 en**

Short Range Devices (SRD) – Radio equipment for Eurobalise railway systems – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  
Uredaji kratkoga dometa (SRD) – Radijska oprema za Eurobalise sustave na željeznicama – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 302 885 V2.2.0:2016 en**

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class H DSC – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of Directive 2014/53/EU  
Prijenosni radiotelefonski uređaji vrlo visokih frekvencija (VHF) s integriranim ručnim uređajem klase H 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

**Draft EN 303 132 V1.1.0:2016 en**

Maritime low power VHF personal locating beacons employing Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU  
Pomorski VHF osobni radio farovi male snage koji primjenjuju digitalno selektivno pozivanje (DSC) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 303 417 V1.1.0:2016 en**

Wireless power transmission using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU  
Bežični prijenos snage primjenom tehnologija različitih od radiofrekvencijskog snopa u područjima 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**Draft EN 303 447 V1.1.0:2016 en**

Short Range Devices (SRD) – Inductive loop systems for robotic mowers in the frequency range 0 Hz to 148,5 kHz – Harmonised standard covering the essential requirements of article 3.2 of Directive for 2014/53/EU  
Uredaji kratkoga dometa – Sustavi sa induktivnom petljom za robotizirane pokretne uređaje u frekvencijskom području od 0 Hz do 148,5 kHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

**HNZ/TO Z1, Informacijska tehnologija****prEN 17054 en**

Biometrics multilingual vocabulary based upon the English version of ISO/IEC 2382-37

**FprEN 419212-1 en**

Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services – Part 1: Introduction and common definitions

**FprEN 419212-2 en**

Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services – Part 2: Signature and Seal Services

**FprEN 419212-3 en**

Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services – Part 3: Device authentication protocols

**FprEN 419212-4 en**

Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services – Part 4: Privacy specific Protocols

**FprEN 419212-5 en**

Application Interface for Secure Elements for Electronic Identification, Authentication and Trusted Services – Part 5: Trusted eService

**HZN/TU B1, Graditeljstvo 1****prEN ISO 29481-1 en**

Building information models – Information delivery manual – Part 1: Methodology and format  
(ISO 29481-1:2016)  
Modeli informacija o građevinama – Priručnik za razmjenu informacija – 1. dio: Metodologija i format  
(ISO 29481-1:2016)

**HZN/TU I2, Strojarstvo 2****prEN ISO 15236-3 en**

Steel cord conveyor belts – Part 3: Special safety requirements for belts for use in underground installations (ISO/DIS 15236-3:2016)  
Transportne trake s čeličnom užadi – 3. dio: Posebni sigurnosni zahtjevi za trake za upotrebu u podzemnim instalacijama (ISO/DIS 15236-3:2016)

**HZN/TU S1, Zdravljje, okoliš i medicinska oprema 1****EN 455-3:2015/prA1 en**

Medical gloves for single use – Part 3: Requirements and testing for biological evaluation  
Medicinske rukavice za jednokratnu upotrebu – 3. dio: Zahtjevi i ispitivanje za biološko vrednovanje

**HZN/TU S2, Zdravljje, okoliš i medicinska oprema 2****prEN ISO 23611-1 en**

Soil quality – Sampling of soil invertebrates – Part 1: Hand-sorting and extraction of earthworms  
(ISO/DIS 23611-1:2016)  
Kvaliteta tla – Uzorkovanje beskralježnjaka u tlu – 1. dio: Ručno razvrstavanje i ekstrakcija gujavica  
(ISO/DIS 23611-1:2016)

**HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1****FprEN 2267-009 en**

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

**FprEN 2267-010 en**

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

**FprEN 2302 en**

Aerospace series – Heat resisting nickel base alloy Ni-Cr20Co3Fe3 – Rp 0,2 ≥ 310 MPa – Sheets and strips 0,25 mm < a ≤ 3 mm

**FprEN 2714-013 en**

Aerospace series – Cables, electrical, single and multicore for general purpose – Operating temperatures between -55 °C and 260 °C – Part 013: DR family, screened (spiral) and jacketed, UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, jednožilni i višežilni za opću upotrebu – Radna temperatura između -55 °C i 260 °C – Dio 013: DR porodica, oklopljeni (spiralni) i obloženi, za ispis UV laserskim pisačem – Norma za proizvod

**FprEN 2823 en**

Aerospace series – Fibre reinforced plastics – Determination of the effect of exposure to humid atmosphere on physical and mechanical characteristics

**FprEN 2997-001 en**

Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 001: Technical specification  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – 001. dio: Tehnička specifikacija

**FprEN 3375-011 en**

Aerospace series – Cable, electrical for digital data transmission – Part 011: Single braid – Star Quad 100 ohms – Light weight – Type KL – Product standard  
Zrakoplovstvo – Električni kabeli za prijenos digitalnih podataka – Dio 011: Jednostruko pleteni – Četverožilni 100 oma – Male težine – Tip KL – Norma za proizvod

**FprEN 3660-034 en**

Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 034: Memory metal rings for the attachment of screens – Product standard

**FprEN 3660-066 en**

Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 066: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed for EN 2997 and EN 3646 – Product standard

**FprEN 3773-006 en**

Aerospace series – Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A – Part 006: 6,3 mm blade terminal – Product standard

**FprEN 4681-001 en**

Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 001: Technical Specification  
Zrakoplovstvo – Kabeli, električni, opće namjene, s aluminijskim vodičem ili aluminijskim vodičem presvućenim bakrom – Dio 001: Tehnička specifikacija

**FprEN 4708-101 en**

Aerospace series – Sleeving; heat-shrinkable, for binding, insulation and identification – Part 101: Polyolefin sleeving – Operating temperatures -55 °C to 135 °C – Product standard

**FprEN 6059-301 en**

Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 301: Sun light exposure

**FprEN 6059-302 en**

Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 302: High temperature exposure

**FprEN 6059-304 en**

Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 304: Flammability

**prEN 16602-80 en**

Space product assurance – Software product assurance

**prEN 16603-31-02 en**

Space engineering – Two-phase heat transport equipment  
Svemirsko inženjerstvo – Oprema za dvofazni prijenos topline

**FprEN 16603-33-01 en**

Space engineering – Mechanisms

**prEN 16603-60-21 en**

Space engineering – Gyros terminology and performance specification

**HZN/TU U1, Opća elektrotehnika 1****prEN 60068-2-52:2016 en**

Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)  
(IEC 60068-2-52:201X)  
Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Kb ispitivanje: Slana magla, ciklički (natrijev klorid)  
(IEC 60068-2-52:201X)

**prEN 60068-3-5:2016 en**

Environmental testing – Part 3-5: Supporting documentation and guidance – Confirmation of the performance of temperature chambers (IEC 60068-3-5:201X)  
Ispitivanje utjecaja okoliša – Dio 3-5: Popratna dokumentacija i upute – Potvrda o izvedbi temperaturnih komora (IEC 60068-3-5:201X)

**prEN 60068-3-6:2016 en**

Environmental testing – Part 3-6: Supporting documentation and guidance – Confirmation of the performance of temperature/humidity chambers (IEC 60068-3-6:201X)  
Ispitivanje utjecaja okoliša – Dio 3-6: Popratna dokumentacija i upute – Potvrda o izvedbi temperatura/vlažnost komora (IEC 60068-3-6:201X)

**prEN 60721-2-4:2016 en**

Classification of environmental conditions – Part 2-4: Environmental conditions appearing in nature – Solar radiation and temperature (IEC 60721-2-4:201X)

**prEN 60721-3-1:2016 en**

Classification of environmental conditions – Part 3-1: Classification of groups of environmental parameters and their severities – Storage (IEC 60721-3-1:201X)  
Razredba uvjeta okoliša – Dio 3-1: Razredba skupina utjecaja okoliša i njihove strogosti – Skladištenje (IEC 60721-3-1:201X)

**prEN 60721-3-2:2016 en**

Classification of environmental conditions – Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and Handling (IEC 60721-3-2:201X)

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

### **prEN 50288-12-1 en**

Multi-element metallic cables used in analogue and digital communications and control – Part 12-1: Sectional specification for screened cables characterised from 1 MHz up to 2 000 MHz – Horizontal and building backbone cables

### **prEN 60286-1:2016 en**

Packaging of components for automatic handling – Part 1: Tape packaging of components with axial leads on continuous tapes (IEC 60286-1:201X)

### **prEN 60794-1-3:2016 en**

Optical fibre cables – Part 1-3: Generic specification – optical cable elements (IEC 60794-1-3:201X)

### **prEN 61300-3-30:2016 en**

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-30: Examinations and measurements – Endface geometry of rectangular ferrule (IEC 61300-3-30:201X)

### **prEN 62005-9-4:2016 en**

Fibre optic interconnecting devices and passive components – Reliability – Part 9-4: High power qualification of passive optical components for environmental category C (IEC 62005-9-4:201X)

### **prEN 62090:2016 en**

Product package labels for electronic components using bar code and two-dimensional symbologies (IEC 62090:201X)

### **prEN 62969-1:2016 en**

Semiconductor devices – Semiconductor interface for automotive vehicles – Part 1: General requirements of power interface for automotive vehicle sensors (IEC 62969-1:201X)

### **prEN 62969-2:2016 en**

Semiconductor devices – Semiconductor interface for automotive vehicles – Part 2: Efficiency evaluation methods of wireless power transmission using resonance for automotive vehicles sensors (IEC 62969-2:201X)

## **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.

## **HN/TU 8, Brodogradnja**

### **HRN EN 1914:2009 en**

Plovila unutarnje plovidbe – Radni čamci, brodski čamci i čamci za spašavanje (EN 1914:2009)  
Inland navigation vessels – Work boats, ship's boats and lifeboats (EN 1914:2009)

- zamijenjena s: HRN EN 1914:2016

## **HN/TU 34, Poljoprivredni i prehrambeni proizvodi**

### **HRN ISO 2451:1998 en**

Kakao zrno – Tehnički uvjeti (ISO 2451:1973)  
Cocoa beans – Specification (ISO 2451:1973)  
- zamijenjena s: HRN ISO 2451:2016

**HRN ISO/TS 3632-1:2008 en**

Šafran (Crocus sativus L.) – 1. dio: Specifikacija (ISO/TS 3632-1:2003)  
Saffron (Crocus sativus L.) – Part 1: Specification (ISO/TS 3632-1:2003)  
- zamijenjena s: HRN ISO 3632-1:2016

**HRN ISO/TS 3632-2:2008 en**

Šafran (Crocus sativus L.) – 2. dio: Metode ispitivanja (ISO/TS 3632-2:2003)  
Saffron (Crocus sativus L.) – Part 2: Test methods (ISO/TS 3632-2:2003)  
- zamijenjena s: HRN ISO 3632-2:2016

**HRN ISO 3720:2001 en**

Crni čaj – Definicije i osnovni zahtjevi (ISO 3720:1986+Cor 1:1992)  
Black tea – Definition and basic requirements (ISO 3720:1986+Cor 1:1992)  
- zamijenjena s: HRN ISO 3720:2016

**HRN ISO 4150:1999 en**

Sirova kava – Granulometrijska analiza – Ručno prosijavanje (ISO 4150:1991)  
Green coffee – Size analysis – Manual sieving (ISO 4150:1991)  
- zamijenjena s: HRN ISO 4150:2016

**HRN ISO 6539:2001 en**

Cimet, šrilanski tip, sejšelski tip i madagaskarski tip (Cinnamomum zeylanicum Blume) – Specifikacija (ISO 6539:1997)  
Cinnamon, Sri Lankan type, Seychelles type and Madagascan type (Cinnamomum zeylanicum Blume) – Specification (ISO 6539:1997)  
- zamijenjena s: HRN ISO 6539:2016

**HRN ISO 6646:2000 en**

Riža – Određivanje mogućeg prinosa mljevenja neoljuštene i oljuštene riže (ISO 6646:2000)  
Rice – Determination of the potential milling yield from paddy and from husked rice (ISO 6646:2000)  
- zamijenjena s: HRN ISO 6646:2016

**HRN ISO 6666:1999 en**

Sonde za kavu (ISO 6666:1983)  
Coffee triers (ISO 6666:1983)  
- zamijenjena s: HRN ISO 6666:2016

**HRN ISO 7301:2002 hr**

Riža – Specifikacija (ISO 7301:2002)  
Rice – Specification (ISO 7301:2002)  
- zamijenjena s: HRN ISO 7301:2016

**HRN ISO 7304:2002 en**

Krupica od tvrde pšenice i tjestenina – Procjena kakvoće kuhanja špageta senzorskom analizom (ISO 7304:1985)  
Durum wheat semolinas and alimentary pasta – Estimation of cooking quality of spaghetti by sensory analysis (ISO 7304:1985)  
- zamijenjena s: HRN ISO 7304-1:2016, HRN ISO 7304-2:2016

**HRN ISO 7970:2004 en**

Pšenica (Triticum aestivum L.) – Specifikacija (ISO 7970:2000)  
Wheat (Triticum aestivum L.) – Specification (ISO 7970:2000)  
- zamijenjena s: HRN ISO 7970:2016

**HRN ISO 7973:1999 en**

Žitarice i proizvodi mljevenja žitarica – Određivanje viskoznosti brašna – Metoda uporabe amilografa (ISO 7973:1992)  
Cereals and milled cereal products – Determination of the viscosity of flour – Method using an amylograph (ISO 7973:1992)  
- zamijenjena s: HRN EN ISO 7973:2016

**HRN ISO 11286:2001 en**

Čaj – Klasifikacija po stupnju usitnjenosti (ISO 11286:1997)

Tea – Classification of grades by particle size analysis (ISO 11286:1997)

- zamijenjena s: HRN ISO 11286:2016

**HNZ/TO 35, Boje i lakovi****HRN ISO/TR 24430:2007 en**

Boje i lakovi – Smjernice za određivanje točnosti ispitne metode iz međulaboratorijskih ispitivanja (ISO/TR 24430:2003)

Paints and varnishes – Guidelines for the determination of the precision of a test method by interlaboratory trials (ISO/TR 24430:2003)

- bez zamjene

**HNZ/TO 44, Zavarivanje i srodnici postupci****HRN EN ISO 15614-7:2008 en**

Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 7. dio: Navarivanje (ISO 15614-7:2007; EN ISO 15614-7:2007)

Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 7: Overlay welding (ISO 15614-7:2007; EN ISO 15614-7:2007)

- zamijenjena s: HRN EN ISO 15614-7:2016

**HRN EN ISO 17638:2010 en**

Nerazorno ispitivanje zavara – Ispitivanje magnetnim česticama (ISO 17638:2003; EN ISO 17638:2009)

Non-destructive testing of welds – Magnetic particle testing (ISO 17638:2003; EN ISO 17638:2009)

- zamijenjena s: HRN EN ISO 17638:2016

**HNZ/TO 47, Kemija****HRN ISO 78-3:2001 en**

Kemija – Standardni postupci – 3. dio: Standardni postupak za molekulsku-apsorpcijsku spektrometriju (ISO 78-3:1983)

Chemistry – Layouts for standards – Part 3: Standard for molecular absorption spectrometry (ISO 78-3:1983)

- bez zamjene

**HRN ISO 78-4:2001 en**

Standardni postupci – 4. dio: Standardni postupak za atomsco apsorpcijsku spektrometrijsku analizu (ISO 78-4:1983)

Layouts for standards – Part 4: Standard for atomic absorption spectrometric analysis (ISO 78-4:1983)

- bez zamjene

**HRN ISO 2069:2001 en**

Aluminijev oksid prije svega upotrebljavan za proizvodnju aluminija – Određivanje udjela kalcija – Metoda plamene atomsco-apsorpcijske spektrometrije (ISO 2069:1976)

Aluminium oxide primarily used for the production of aluminium – Determination of calcium content – Flame atomic absorption method (ISO 2069:1976)

- bez zamjene

**HRN ISO 2212:2001 en**

Trikloreten (trikloretilen) za industrijsku uporabu – Metode ispitivanja (ISO 2212:1972)

Trichloroethylene for industrial use – Methods of test (ISO 2212:1972)

- bez zamjene

**HRN ISO 2590:2001 en**

Opća metoda za određivanje arsena – Fotometrijska metoda sa srebrnim dietilditiokarbamatom  
(ISO 2590:1973)

General method for the determination of arsenic – Silver diethyldithiocarbamate photometric method  
(ISO 2590:1973)

- bez zamjene

**HRN ISO 2718:2001 en**

Standardni postupak za metodu kemijske analize plinskom kromatografijom (ISO 2718:1974)

Standard layout for a method of chemical analysis by gas chromatography (ISO 2718:1974)

- bez zamjene

**HRN ISO 5790:2001 en**

Anorganski kemijski proizvodi za industrijsku uporabu – Opća metoda za određivanje udjela klorida –  
Merkurimetrijska metoda (ISO 5790:1979)

Inorganic chemical products for industrial use – General method for determination of chloride content  
– Mercurimetric method (ISO 5790:1979)

- bez zamjene

**HRN ISO 6286:2004 hr,en,fr**

Molekulska apsorpcijska spektrometrija – Rječnik – Općenito – Aparati (ISO 6286:1982)

Molecular absorption spectrometry – Vocabulary – General – Apparatus (ISO 6286:1982)

- bez zamjene

**HRN ISO 6382:2001 en**

Opća metoda za određivanje udjela silicija – Spektrofotometrijska metoda redukcijom silikomolibdata  
(ISO 6382:1981)

General method for determination silicon content – Reduced molybdsilicate spectrophotometric  
method (ISO 6382:1981)

- bez zamjene

**HRN ISO 6685:2001 en**

Kemijski proizvodi za industrijsku uporabu – Opća metoda za određivanje udjela željeza –  
Spektrofotometrijska metoda s 1,10-fenantrolinom (ISO 6685:1982)

Chemical products for industrial use – General method for determination of iron content – 1,10-  
Phenanthroline spectrophotometric method (ISO 6685:1982)

- bez zamjene

**HRN ISO 6955:2001 en**

Metode analitičke spektroskopije – Emisija u plamenu, atomska apsorpcija i atomska fluorescencija –  
Rječnik (ISO 6955:1982)

Analytical spectroscopic methods – Flame emission, atomic absorption, and atomic fluorescence –  
Vocabulary (ISO 6955:1982)

- bez zamjene

**HRN ISO 7110:1998 en**

Amonijev bikarbonat (amonijev hidrogenkarbonat) za industrijsku uporabu (uključujući namirnice) –  
Određivanje količine olova – Metoda atomske apsorpcije plamena (ISO 7110:1985)

Ammonium bicarbonate (Ammonium hydrogen-carbonate) for industrial use (including foodstuffs) –  
Determination of lead content – Flame atomic absorption method (ISO 7110:1985)

- bez zamjene

**HRN ISO 8005:2001 en**

Materijali koji sadrže ugljik upotrijebljeni u proizvodnji aluminija – Sirovi i kalcinirani koks – Određivanje  
udjela pepela (ISO 8005:1984)

Carbonaceous materials used in the production of aluminium – Green and calcined cokes –  
Determination of ash content (ISO 8005:1984)

- bez zamjene

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

### **HRN EN 196-1:2005 en**

Metode ispitivanja cementa – 1. dio: Određivanje čvrstoće (EN 196-1:2005)  
Methods of testing cement – Part 1: Determination of strength (EN 196-1:2005)  
- zamijenjena s: HRN EN 196-1:2016

### **HRN EN 196-10:2013 en**

Metode ispitivanja cementa – 10. dio: Određivanje udjela u vodi topivog kroma (VI) u cementu (EN 196-10:2006)  
Methods of testing cement – Part 10: Determination of the water-soluble chromium (VI) content of cement (EN 196-10:2006)  
- zamijenjena s: HRN EN 196-10:2016

### **HRN CEN/TS 12390-9:2006 en**

Ispitivanje očvrsloga betona – 9. dio: Otpornost na smrzavanje i odmrzavanje – Ljuštenje (CEN/TS 12390-9:2006)  
Testing hardened concrete – Part 9: Freeze-thaw resistance – Scaling (CEN/TS 12390-9:2006)  
- zamijenjena s: HRS CEN/TS 12390-9:2016

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

### **HRN EN 378-1:2012 en**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 1. dio: Osnovni zahtjevi, definicije, razredba i kriteriji odabira (EN 378-1:2008+A2:2012)  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria (EN 378-1:2008+A2:2012)  
- zamijenjena s: HRN EN 378-1:2016

### **HRN EN 378-2:2012 en**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na sigurnost i okoliš – 2. dio: Projektiranje, izvedba, ispitivanje, označivanje i dokumentacija (EN 378-2:2008+A2:2012)  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation (EN 378-2:2008+A2:2012)  
- zamijenjena s: HRN EN 378-2:2016

### **HRN EN 378-3:2012 en**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 3. dio: Mjesto instalacije i osobna zaštita (EN 378-3:2008+A1:2012)  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site and personal protection (EN 378-3:2008+A1:2012)  
- zamijenjena s: HRN EN 378-3:2016

### **HRN EN 378-4:2012 en**

Rashladni sustavi i dizalice topline – Zahtjevi s obzirom na okoliš i sigurnost – 4. dio: Rukovanje, održavanje, popravci i sanacija (EN 378-4:2008+A1:2012)  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery (EN 378-4:2008+A1:2012)  
- zamijenjena s: HRN EN 378-4:2016

### **HRN EN 12178:2008 en**

Rashladni sustavi i dizalice topline – Indikatori razine kapljevine – Zahtjevi, ispitivanje i označivanje (EN 12178:2003)  
Refrigerating systems and heat pumps – Liquid level indicating devices – Requirements, testing and marking (EN 12178:2003)  
- zamijenjena s: HRN EN 12178:2016

**HRN EN 13215:2004 en**

Kondenzacijske jedinice za hlađenje – Uvjeti razvrstavanja, dozvoljenog odstupanja i prikaz tvorničkih radnih značajka (EN 13215:2000)

Condensing units for refrigeration – Rating conditions, tolerances and presentation of manufacturer's performance data (EN 13215:2000)

- zamijenjena s: HRN EN 13215:2016

**HRN EN 13771-1:2004 en**

Kompresori i kondenzacijske jedinice za hlađenje – Ispitivanje radnih značajka i metode ispitivanja – 1. dio: Rashladni kompresori (EN 13771-1:2003)

Compressors and condensing units for refrigeration – Performance testing and test methods – Part 1: Refrigerant compressors (EN 13771-1:2003)

- zamijenjena s: HRN EN 13771-1:2016

**HNZ/TO 92, Zaštita od požara****HRN EN 15269-5:2014 en**

Proširena primjena rezultata ispitivanja otpornosti na požar i/ili dimopropusnosti vrata, zaslona i prozora koji se mogu otvarati, uključujući pripadajući okov – 5. dio: Otpornost na požar zaokretnih staklenih vrata s metalnim dovratnikom i prozora koji se mogu otvarati (EN 15269-5:2014)

Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 5: Fire resistance of hinged and pivoted metal framed glazed doorsets and openable windows (EN 15269-5:2014)

- zamijenjena s: HRN EN 15269-5:2016

**HNZ/TO 108, Mehaničke vibracije i udari****HRN EN ISO 8662-4:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohвату – 4. dio: Brusilice (ISO 8662-4:1994; EN ISO 8662-4:1995)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 4: Grinders (ISO 8662-4:1994; EN ISO 8662-4:1995)

- zamijenjena s: HRN EN ISO 28927-1:2010, HRN EN ISO 28927-4:2011

**HRN EN ISO 8662-6:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohвату – 6. dio: Udarna svrdla (ISO 8662-6:1994; EN ISO 8662-6:1995)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 6: Impact drills (ISO 8662-6:1994; EN ISO 8662-6:1995)

- zamijenjena s: HRN EN ISO 28927-5:2010

**HRN EN ISO 8662-7:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohвату – 7. dio: Odvijači, izvijači i odvijači matica koji djeluju udarno, impulsno ili s pomoću zapornika (ISO 8662-7:1997; EN ISO 8662-7:1997)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 7: Wrenches, screwdrivers and nut runners with impact, impulse or ratchet action (ISO 8662-7:1997; EN ISO 8662-7:1997)

- zamijenjena s: HRN EN ISO 28927-2:2010

**HRN EN ISO 8662-8:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohвату – 8. dio: Strojevi za poliranje i pjeskarenje koji rade kao rotacijski, orbitalni i slučajno orbitalni (ISO 8662-8:1997; EN ISO 8662-8:1997)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 8: Polishers and rotary, orbital and random orbit sanders (ISO 8662-8:1997; EN ISO 8662-8:1997)

- zamijenjena s: HRN EN ISO 28927-3:2010

**HRN EN ISO 8662-9:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 9. dio: Maljevi (ISO 8662-9:1996; EN ISO 8662-9:1996)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 9: Rammers (ISO 8662-9:1996; EN ISO 8662-9:1996)

- zamijenjena s: HRN EN ISO 28927-6:2010

**HRN EN ISO 8662-10:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 10. dio: Kidačice i škare (ISO 8662-10:1998; EN ISO 8662-10:1998)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 10: Nibblers and shears (ISO 8662-10:1998; EN ISO 8662-10:1998)

- zamijenjena s: HRN EN ISO 28927-7:2010

**HRN EN ISO 8662-10:2000/lsp.1:2008 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 10. dio: Kidačice i škare (EN ISO 8662-10:1998/AC:2002)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 10: Nibblers and shears (EN ISO 8662-10:1998/AC:2002)

- zamijenjena s: HRN EN ISO 28927-7:2010

**HRN EN ISO 8662-12:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 12. dio: Pile i turpije s povratnim gibanjem i pile s vibracijskim ili rotacijskim gibanjem (ISO 8662-12:1997; EN ISO 8662-12:1997)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 12: Saws and files with reciprocating action and saws with oscillating or rotating action (ISO 8662-12:1997; EN ISO 8662-12:1997)

- zamijenjena s: HRN EN ISO 28927-8:2010

**HRN EN ISO 8662-14:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 14. dio: Alati za obradu kamena i šiljasta dlijeta (ISO 8662-14:1996; EN ISO 8662-14:1996)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 14: Stone-working tools and needle scalers (ISO 8662-14:1996; EN ISO 8662-14:1996)

- zamijenjena s: HRN EN ISO 28927-9:2010, HRN EN ISO 28927-11:2011

**HRN EN 28662-1:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 1. dio: Općenito (ISO 8662-1:1988; EN 28662-1:1992)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 1: General (ISO 8662-1:1988; EN 28662-1:1992)

- bez zamjene

**HRN EN 28662-2:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 2. dio: Čekići za dubljenje i čekići za zakivanje (ISO 8662-2:1992; EN 28662-2:1994+A1:1995)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 2: Chipping hammers and riveting hammers (ISO 8662-2:1992; EN 28662-2:1994+A1:1995)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 28662-2:2000/A2:2008 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 2. dio: Čekići za dubljenje i čekići za zakivanje (ISO 8662-2:1992/Amd 1:1999; EN 28662-2:1994/A2:2001)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 2: Chipping hammers and riveting hammers (ISO 8662-2:1992/Amd 1:1999; EN 28662-2:1994/A2:2001)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 28662-3:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 3. dio: Bušilice za kamen i rotacijski čekići (ISO 8662-3:1992; EN 28662-3:1994+A1:1995)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 3: Rock drills and rotary hammers (ISO 8662-3:1992; EN 28662-3:1994+A1:1995)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 28662-3:2000/A2:2008 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 3. dio: Bušilice za kamen i rotacijski čekići (ISO 8662-3:1992/Amd 1:1999; EN 28662-3:1994/A2:2001)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 3: Rock drills and rotary hammers (ISO 8662-3:1992/Amd 1:1999; EN 28662-3:1994/A2:2001)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 28662-5:2000 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 5. dio: Nabijači materijala i čekići u graditeljstvu (ISO 8662-5:1992; EN 28662-5:1994+A1:1995)

Hand-held portable tools – Measurement of vibrations at the handle – Part 5: Pavement breakers and hammers for construction work (ISO 8662-5:1992; EN 28662-5:1994+A1:1995)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 28662-5:2000/A2:2008 en**

Ručni prijenosni strojni alati – Mjerenje vibracija na rukohvatu – 5. dio: Lomilice asfalta i čekići za građevinske radove (ISO 8662-5:1992/Amd 1:1999; EN 28662-5:1994/A2:2001)

Hand-held portable power tools – Measurement of vibrations at the handle – Part 5: Pavement breakers and hammers for construction work (ISO 8662-5:1992/Amd 1:1999; EN 28662-5:1994/A2:2001)

- zamijenjena s: HRN EN ISO 28927-10:2011

**HRN EN 30326-1:2000 en**

Mehaničke vibracije – Laboratorijska metoda ocjenjivanja vibracija na sjedalu vozila – 1. dio: Osnovni zahtjevi (ISO 10326-1:1992; EN 30326-1:1994)

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements (ISO 10326-1:1992; EN 30326-1:1994)

- zamijenjena s: HRN EN ISO 10326-1:2016

**HRN EN 30326-1:2000/A1:2008 en**

Mehaničke vibracije – Laboratorijska metoda za ocjenjivanje vibracija na sjedalu vozila – 1. dio: Osnovni zahtjevi – Amandman 1 (ISO 10326-1:1992/Amd 1:2007; EN 30326-1:1994/A1:2007)

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements – Amendment 1 (ISO 10326-1:1992/Amd 1:2007; EN 30326-1:1994/A1:2007)

- zamijenjena s: HRN EN ISO 10326-1:2016

**HRN EN 30326-1:2000/A2:2012 en**

Mehaničke vibracije – Laboratorijska metoda vrednovanja vibracija sjedala vozila – 1. dio: Osnovni zahtjevi – Amandman 2 (ISO 10326-1:1992/Amd 2:2011; EN 30326-1:1994/A2:2011)

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements – Amendment 2 (ISO 10326-1:1992/Amd 2:2011; EN 30326-1:1994/A2:2011)

- zamijenjena s: HRN EN ISO 10326-1:2016

***HNZ/TO 121, Anestetička i respiracijska oprema*****HRN EN ISO 5366-1:2010 en**

Anestetička i respiracijska oprema – Traheostomijske cijevi – 1. dio: Cijevi i spojevi za uporabu kod odraslih (ISO 5366-1:2000; EN ISO 5366-1:2009)

Anaesthetic and respiratory equipment – Tracheostomy tubes – Part 1: Tubes and connectors for use in adults (ISO 5366-1:2000; EN ISO 5366-1:2009)

- zamijenjena s: HRN EN ISO 5366:2016

## **HN/T 130, Grafička tehnologija**

### **HRN ISO 2846-3:2014 en**

Grafička tehnologija – Obojenje i transparencija tiskarskih bojila za četverobojni tisak – 3. dio:  
Ilustracijski bakrotisak (ISO 2846-3:2002)  
Graphic technology – Colour and transparency of printing ink sets for four-colour-printing – Part 3:  
Publication gravure printing (ISO 2846-3:2002)  
- bez zamjene

### **HRN ISO 2846-5:2014 en**

Grafička tehnologija – Obojenje i transparencija tiskarskih bojila za četverobojni tisak – 5. dio: Fleksa  
(ISO 2846-5:2005)  
Graphic technology – Colour and transparency of printing ink sets for four-colour printing – Part 5:  
Flexographic printing (ISO 2846-5:2005)  
- bez zamjene

### **HRI ISO/TR 16044:2008 en**

Grafička tehnologija – Model arhitekture baze podataka i kodiranje kontrolnih parametara za  
upravljanje radnim procesom (ISO/TR 16044:2004)  
Graphic technology – Database architecture model and control parameter coding for process control  
and workflow (Database AMPAC) (ISO/TR 16044:2004)  
- bez zamjene

## **HN/T 134, Gnojiva i poboljšivači tla**

### **HRN ISO 2753:2001 hr**

Urea za industrijsku uporabu – Određivanje sadržaja vode – Karl Fisherova metoda (ISO 2753:1973)  
Urea for industrial use – Determination of water content – Karl Fisher method (ISO 2753:1973)  
- bez zamjene

### **HRN ISO 2754:2001 hr**

Urea za industrijsku upotrebu – Određivanje sadržaja biureta – Fotometrijska metoda (ISO 2754:1973)  
Urea for industrial use – Determination of biuret content – Photometric method (ISO 2754:1973)  
- bez zamjene

### **HRN ISO 5318:2002 hr**

Gnojiva – Određivanje sadržaja kalija – Gravimetrijska metoda kalijeva tetrafenilborata (Referentna  
metoda) (ISO 5318:1983)  
Fertilizers – Determination of potassium content – Potassium tetraphenylborate gravimetric method  
(Reference method) (ISO 5318:1983)  
- bez zamjene

### **HRN ISO 7837:2000 en**

Gnojiva – Određivanje nasipne gustoće bez potresanja praškastih gnojiva (ISO 7837:1992)  
Fertilizers – Determination of bulk density (loose) of fine-grained fertilizers (ISO 7837:1992)  
- zamijenjena s: HRN EN ISO 7837:2005

### **HRN EN 12945:2014 en**

Tvari za kalcifikaciju – Određivanje neutralizacijske vrijednosti – Titrimetrijske metode  
(EN 12945:2014)  
Liming materials – Determination of neutralizing value – Titrimetric methods (EN 12945:2014)  
- zamijenjena s: HRN EN 12945:2016

## **HN/T 136, Namještaj**

### **HRN EN 527-2:2003 en**

Uredski namještaj – Uredski radni stolovi – 2. dio: Mehanički sigurnosni zahtjevi (EN 527-2:2002)  
Office furniture – Tables and desks – Part 2: Mechanical safety requirements (EN 527-2:2002)  
- zamijenjena s: HRN EN 527-2:2016

**HRN EN 12727:2001 en**

Namještaj – Stolci spojeni u redove – Metode ispitivanja i zahtjevi za čvrstoću i trajnost (EN 12727:2000)

Furniture – Ranked seating – Test methods and requirements for strength and durability (EN 12727:2000)

- zamijenjena s: HRN EN 12727:2016

**HRN EN 15372:2008 en**

Namještaj – Čvrstoća, izdržljivost i sigurnost – Zahtjevi za stolove koji nisu za uporabu u kućanstvu (EN 15372:2008)

Furniture – Strength, durability and safety – Requirements for non-domestic tables (EN 15372:2008)

- zamijenjena s: HRN EN 15372:2016

**HZN/TO 146, Kvaliteta zraka****HRN EN 13526:2006 en**

Emisije iz stacionarnih izvora – Određivanje masene koncentracije ukupnoga plinovitog organskog ugljika u otpadnim plinovima iz procesa koji upotrebljavaju otapalo – Kontinuirana plameno ionizacijska metoda (EN 13526:2001)

Stationary source emissions – Determination of the mass concentration of total gaseous organic carbon in flue gases from solvent using processes – Continuous flame ionisation detector method (EN 13526:2001)

- zamijenjena s: HRN EN 12619:2013

**HRN EN 15051-2:2014 en**

Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala – 2. dio: Metoda rotirajućega bubnja (EN 15051-2:2013)

Workplace exposure – Measurement of the dustiness of bulk materials – Part 2: Rotating drum method (EN 15051-2:2013)

- zamijenjena s: HRN EN 15051-2:2016

**HZN/TO 147/PO 6, Kvaliteta vode; Uzorkovanje (opće metode)****HRN ISO 5667-4:2000 hr**

Kakvoća vode – Uzorkovanje – 4. dio: Smjernice za uzorkovanje vode prirodnih i umjetnih jezera (ISO 5667-4:1987)

Water quality – Sampling – Part 4: Guidance on sampling from lakes, natural and man made (ISO 5667-4:1987)

- zamijenjena s: HRN ISO 5667-4:2016

**HZN/TO 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja****HRN EN ISO 10253:2008 en**

Kakvoća vode – Ispitivanje inhibicije rasta morskih algi Skeletonema costatum i Phaeodactylum tricornutum (ISO 10253:2006; EN ISO 10253:2006)

Water quality – Marine algal growth inhibition test with Skeletonema costatum and Phaeodactylum tricornutum (ISO 10253:2006; EN ISO 10253:2006)

- zamijenjena s: HRN EN ISO 10253:2016

**HZN/TO 159, Ergonomija****HRN EN ISO 9241-4/AC:2007 en**

Ergonomski zahtjevi za uredski rad s vizualnim zaslonima – 4. dio: Zahtjevi za tipkovnicu (ISO 9241-4:1998/Cor.1:2000; EN ISO 9241-4:1998/AC:2000)

Ergonomic requirements for office work with visual display terminals (VDTs) – Part 4: Keyboard requirements (ISO 9241-4:1998/Cor.1:2000; EN ISO 9241-4:1998/AC:2000)

- bez zamjene

**HRN EN ISO 9241-4:2004 en**

Ergonomski zahtjevi za uredski rad s vizualnim zaslonima – 4. dio: Zahtjevi za tipkovnicu (ISO 9241-4:1998+Cor 1:2000; EN ISO 9241-4:1998)

Ergonomic requirements for office work with visual display terminals (VDTs) – Part 4: Keyboard requirements (ISO 9241-4:1998+Cor 1:2000; EN ISO 9241-4:1998)

- zamijenjena s: HRN EN ISO 9241-400:2008

**HNZ/TO 163, Toplinska izolacija****HRN EN 13163:2015 en**

Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspandiranog polistirena (EPS) – Specifikacija (EN 13163:2012+A1:2015)

Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification (EN 13163:2012+A1:2015)

- zamijenjena s: HRN EN 13163:2016

**HNZ/TO 165, Drvene konstrukcije****HRN EN 392:2006 en**

Lijepljeno lamelirano drvo – Posmično ispitivanje po ravnini lijepljenja (EN 392:1995)

Glued laminated timber – Shear test of glue lines (EN 392:1995)

- zamijenjena s: HRN EN 14080:2013

**HNZ/TO 172, Optika i optički instrumenti****HRN EN ISO 10938:2008 en**

Oftalmološki instrumenti – Projektor za optotipove (ISO 10938:1998; EN ISO 10938:1998)

Ophthalmic instruments – Chart projectors (ISO 10938:1998; EN ISO 10938:1998)

- zamijenjena s: HRN EN ISO 10938:2016

**HRN EN ISO 11381:2008 en**

Optika i optički instrumenti – Oftalmološka optika – Navozi vijaka (ISO 11381:1994; EN ISO 11381:1996)

Optics and optical instruments – Ophthalmic optics – Screw threads (ISO 11381:1994; EN ISO 11381:1996)

- zamijenjena s: HRN EN ISO 11381:2016

**HNZ/TO 179, Zidane konstrukcije****HRN EN 998-1:2010 en**

Specifikacija morta za zide – 1. dio: Vanjska i unutarnja žbuka (EN 998-1:2010)

Specification for mortar for masonry – Part 1: Rendering and plastering mortar (EN 998-1:2010)

- zamijenjena s: HRN EN 998-1:2016

**HRN EN 998-2:2010 en**

Specifikacija morta za zide – 2. dio: Mort za zide (EN 998-2:2010)

Specification for mortar for masonry – Part 2: Masonry mortar (EN 998-2:2010)

- zamijenjena s: HRN EN 998-2:2016

**HNZ/TO 182, Geotehničke konstrukcije****HRS CEN ISO/TS 17892-4:2008 en**

Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 4. dio: Određivanje granulometrijskog sastava (ISO/TS 17892-4:2004; CEN ISO/TS 17892-4:2004)

Geotechnical investigation and testing – Laboratory testing of soil – Part 4: Determination of particle size distribution (ISO/TS 17892-4:2004; CEN ISO/TS 17892-4:2004)

- zamijenjena s: HRN EN ISO 17892-4:2016

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

### **HR CEN/TR 16663:2014 en**

Trajinost drva i proizvoda na osnovi drva – Utvrđivanje emisija obrađenog drva u okoliš – Drveni elementi u trećoj klasi uporabivosti (nenatkriveni, bez doticaja sa tlom) – Semi-field metoda (CEN/TR 16663:2014)

Durability of wood and wood-based products – Determination of emissions from preservative treated wood to the environment – Wooden commodities exposed in Use Class 3 (Not covered, not in contact with the ground) – Semi-field method (CEN/TR 16663:2014)

- zamijenjena s: HRS CEN/TS 16663:2016

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

### **HRN EN 13249:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji cesta i ostalih prometnih površina (izuzimaju se željeznice i asfaltne sojevi) (EN 13249:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion) (EN 13249:2014+A1:2015)

- zamijenjena s: HRN EN 13249:2016

### **HRN EN 13250:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji željeznica (EN 13250:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of railways (EN 13250:2014+A1:2015)

- zamijenjena s: HRN EN 13250:2016

### **HRN EN 13251:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izvođenju zemljanih radova, temelja i potpornih konstrukcija (EN 13251:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in earthworks, foundations and retaining structures (EN 13251:2014+A1:2015)

- zamijenjena s: HRN EN 13251:2016

### **HRN EN 13252:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu u drenažnim sustavima (EN 13252:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in drainage systems (EN 13252:2014+A1:2015)

- zamijenjena s: HRN EN 13252:2016

### **HRN EN 13253:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu u zaštiti od erozije (zaštita obale, obaloutvrde) (EN 13253:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in erosion control works (coastal protection, bank revetments) (EN 13253:2014+A1:2015)

- zamijenjena s: HRN EN 13253:2016

### **HRN EN 13254:2015 en**

Geotekstili i proizvodi srodnici s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji akumulacijskih jezera i brana (EN 13254:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of reservoirs and dams (EN 13254:2014+A1:2015)

- zamijenjena s: HRN EN 13254:2016

**HRN EN 13255:2015 en**

Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji kanala (EN 13255:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of canals (EN 13255:2014+A1:2015)

- zamijenjena s: HRN EN 13255:2016

**HRN EN 13256:2015 en**

Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji tunela i podzemnih građevina (EN 13256:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in the construction of tunnels and underground structures (EN 13256:2014+A1:2015)

- zamijenjena s: HRN EN 13256:2016

**HRN EN 13257:2015 en**

Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima krutog otpada (EN 13257:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in solid waste disposals (EN 13257:2014+A1:2015)

- zamijenjena s: HRN EN 13257:2016

**HRN EN 13265:2015 en**

Geotekstili i proizvodi srođni s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima tekućeg otpada (EN 13265:2014+A1:2015)

Geotextiles and geotextile-related products – Characteristics required for use in liquid waste containment projects (EN 13265:2014+A1:2015)

- zamijenjena s: HRN EN 13265:2016

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

**HRN EN ISO 148-1:2012 en**

Metalni materijali – Ispitivanje udarnog rada loma Charpyjevim batom – 1. dio: Metoda ispitivanja (ISO 148-1:2009; EN ISO 148-1:2010)

Metallic materials – Charpy pendulum impact test – Part 1: Test method (ISO 148-1:2009; EN ISO 148-1:2010)

- zamijenjena s: HRN EN ISO 148-1:2016

**HRN EN ISO 148-2:2009 en**

Metalni materijali – Ispitivanje udarne radnje loma Charpyjevim njihalom – 2. dio: Provjeravanje ispitnog uređaja (ISO 148-2:2008; EN ISO 148-2:2008)

Metallic materials – Charpy pendulum impact test – Part 2: Verification of testing machines (ISO 148-2:2008; EN ISO 148-2:2008)

- zamijenjena s: HRN EN ISO 148-2:2016

**HRN EN ISO 148-3:2009 en**

Metalni materijali – Ispitivanje udarne radnje loma Charpyjevim njihalom – 3. dio: Priprema i karakterizacija uzoraka s V-zarezom za indirektnu provjeru uređaja s njihalom udarne radnje loma (ISO 148-3:2008; EN ISO 148-3:2008)

Metallic materials – Charpy pendulum impact test – Part 3: Preparation and characterization of Charpy V-notch test pieces for indirect verification of pendulum impact machines (ISO 148-3:2008; EN ISO 148-3:2008)

- zamijenjena s: HRN EN ISO 148-3:2016

**HRN EN 754-2:2014 en**

Aluminij i aluminijeve legure – Hladno vučene šipke i cijevi – 2. dio: Mehanička svojstva (EN 754-2:2013)

Aluminium and aluminium alloys – Cold drawn rod/bar and tube – Part 2: Mechanical properties (EN 754-2:2013)

- zamijenjena s: HRN EN 754-2:2016

**HRN EN 1412:2002 en**

Bakar i bakrene legure – Europski brojčani sustav označivanja (EN 1412:1995)

Copper and copper alloys – European numbering system (EN 1412:1995)

- zamijenjena s: HRN EN 1412:2016

**HRN EN ISO 3928:2008 en**

Sinterirani metalni materijali, osim tvrdih metala – Dijelovi za ispitivanje dinamičke izdržljivosti (ISO 3928:1999; EN ISO 3928:2006)

Sintered metal materials, excluding hardmetals – Fatigue test pieces (ISO 3928:1999; EN ISO 3928:2006)

- zamijenjena s: HRN EN ISO 3928:2016

**HRN EN 10027-1:2007 en**

Sustavi označivanja za čelike – 1. dio: Nazivi čelika (EN 10027-1:2005)

Designation systems for steels – Part 1: Steel names (EN 10027-1:2005)

- zamijenjena s: HRN EN 10027-1:2016

**HRN EN 10205:2005 en**

Hladno valjani crni lim u namotu za proizvodnju pokositrenog lima ili čelika s elektrolitskom prevlakom kroma/kromova oksida (EN 10205:1991)

Cold reduced blackplate in coil form for the production of tinplate or electrolytic chromium/chromium oxide coated steel (EN 10205:1991)

- zamijenjena s: HRN EN 10205:2016

**HRN EN 12020-2:2008 en**

Aluminij i aluminijeve legure – Istisnuti precizni profili od legura EN AW-6060 i EN AW-6063 – 2. dio: Dopuštena odstupanja mjera i oblika (EN 12020-2:2008)

Aluminium and aluminium alloys – Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 – Part 2: Tolerances on dimensions and form (EN 12020-2:2008)

- zamijenjena s: HRN EN 12020-2:2016

**HRN EN ISO 14577-4:2008 en**

Metalni materijali – Instrumentirano ispitivanje utiskivanjem za određivanje tvrdoće i parametara materijala – 4. dio: Ispitna metoda za metalne i nemetalne prevlake (ISO 14577-4:2007; EN ISO 14577-4:2007)

Metallic materials – Instrumented indentation test for hardness and materials parameters – Part 4: Test method for metallic and non-metallic coatings (ISO 14577-4:2007; EN ISO 14577-4:2007)

- zamijenjena s: HRN EN ISO 14577-4:2016

**HNZ/TO 506, Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu****HRN EN ISO 14224:2007 en**

Industrija nafte, petrokemije i prirodnog plina – Prikupljanje i razmjena podataka o pouzdanosti i održavanju opreme (ISO 14224:2006; EN ISO 14224:2006)

Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and maintenance data for equipment (ISO 14224:2006; EN ISO 14224:2006)

- zamijenjena s: HRN EN ISO 14224:2016

**HNZ/TO 513, Mjerne jedinice i mjerila****HRN ISO/TR 8363:2005 en**

Mjerenje protoka tekućine u otvorenim kanalima – Opće smjernice za odabir metode (ISO/TR 8363:1997)

Measurement of liquid flow in open channels – General guidelines for selection of method (ISO/TR 8363:1997)

- zamijenjena s: HRN EN ISO 18365:2014

## **HN/T 518, *Podovi, stropovi i zidne obloge***

### **HRN EN 233:2008 en**

Zidni pokrovi u rolama – Specifikacija za završne zidne pokrove od papira, vinila i plastike (EN 233:1999)

Wallcoverings in roll form – Specifications for finished wallpapers, wall vinyls and plastics wallcoverings (EN 233:1999)

- zamijenjena s: HRN EN 233:2016

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

### **HRS CEN ISO/TS 13140-1:2014 en**

Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s ISO/TS 13141 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 13140-1:2011; CEN ISO/TS 13140-1:2011)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 13141 – Part 1: Test suite structure and test purposes (ISO/TS 13140-1:2011; CEN ISO/TS 13140-1:2011)

- zamijenjena s: HRN EN ISO 13140-1:2016

### **HRS CEN ISO/TS 13140-2:2012 en**

Elektronička naplata – Vrednovanje opreme u vozilu i opreme uz prometnicu sukladno ISO/TS 13141 – 2. dio: Načelni niz testova (ISO/TS 13140-2:2012; CEN ISO/TS 13140-2:2012)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 13141 – Part 2: Abstract test suite (ISO/TS 13140-2:2012; CEN ISO/TS 13140-2:2012)

- zamijenjena s: HRN EN ISO 13140-2:2016

### **HRS CEN ISO/TS 13143-1:2014 en**

Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s ISO/TS 12813 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 13143-1:2011; CEN ISO/TS 13143-1:2011)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 12813 – Part 1: Test suite structure and test purposes (ISO/TS 13143-1:2011; CEN ISO/TS 13143-1:2011)

- zamijenjena s: HRN EN ISO 13143-1:2016

### **HRS CEN ISO/TS 13143-2:2011 en**

Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom ISO/TS 12813 – 2. dio: Apstraktni ispitni paket (ISO/TS 13143-2:2011; CEN ISO/TS 13143-2:2011)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 12813 – Part 2: Abstract test suite (ISO/TS 13143-2:2011; CEN ISO/TS 13143-2:2011)

- zamijenjena s: HRN EN ISO 13143-2:2016

### **HRN EN 15876-1:2012 en**

Elektronička naplata – Vrednovanje opreme u vozilu i opreme uz prometnicu sukladno normi EN 15509 – 1. dio: Struktura niza testova i svrha ispitivanja (EN 15876-1:2010+A1:2012)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 1: Test suite structure and test purposes (EN 15876-1:2010+A1:2012)

- zamijenjena s: HRN EN 15876-1:2016

### **HRN EN 15876-2:2013 en**

Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom EN 15509 – 2. dio: Apstraktni ispitni paket (EN 15876-2:2011)

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 2: Abstract test suite (EN 15876-2:2011)

- zamijenjena s: HRN EN 15876-2:2016

## **HN/T 526, Bitumenska veziva**

### **HRN EN 13075-1:2009 en**

Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 1. dio: Određivanje vrijednosti raspada kationskih bitumenskih emulzija, metoda s mineralnim punilom (EN 13075-1:2009)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method (EN 13075-1:2009)  
- zamijenjena s: HRN EN 13075-1:2016

### **HRN EN 13075-2:2009 en**

Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 2. dio: Određivanje vremena umješavanja punila u kationske bitumenske emulzije (EN 13075-2:2009)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 2: Determination of fines mixing time of cationic bituminous emulsions (EN 13075-2:2009)  
- zamijenjena s: HRN EN 13075-2:2016

### **HRN EN 13587:2010 en**

Bitumen i bitumenska veziva – Određivanje vlačnih svojstava bitumenskih veziva metodom rastezanja (EN 13587:2010)  
Bitumen and bituminous binders – Determination of the tensile properties of bituminous binders by the tensile test method (EN 13587:2010)  
- zamijenjena s: HRN EN 13587:2016

## **HN/T 528, Oprema za željeznice**

### **HRN EN 14198:2008 en**

Željeznički sustav – Kočenje – Zahtjevi za sustave kočenja vlakova vučenih lokomotivama (EN 14198:2004)  
Railway applications – Braking – Requirements for the brake system of trains hauled by a locomotive (EN 14198:2004)  
- zamijenjena s: HRN EN 14198:2016

### **HRN EN 15153-1:2013 en**

Željeznički sustav – Uredaji za vanjska vizualna i zvučna upozorenja za vlakove – 1. dio: Glavna; signalna i završna rasvjeta (EN 15153-1:2013)  
Railway applications – External visible and audible warning devices for trains – Part 1: Head, marker and tail lamps (EN 15153-1:2013)  
- zamijenjena s: HRN EN 15153-1:2016

### **HRN EN 15273-1:2013 en**

Željeznički sustav – Profili – 1. dio: Općenito – Zajednička pravila za infrastrukturu i željeznička vozila (EN 15273-1:2013)  
Railway applications – Gauges – Part 1: General – Common rules for infrastructure and rolling stock (EN 15273-1:2013)  
- zamijenjena s: HRN EN 15273-1:2016

### **HRN EN 15273-2:2013 en**

Željeznički sustav – Profili – 2. dio: Profil željezničkih vozila (EN 15273-2:2013)  
Railway applications – Gauges – Part 2: Rolling stock gauge (EN 15273-2:2013)  
- zamijenjena s: HRN EN 15273-2:2016

### **HRN EN 15273-3:2013 en**

Željeznički sustav – Profili – 3. dio: Slobodni profili (EN 15273-3:2013)  
Railway applications – Gauges – Part 3: Structure gauges (EN 15273-3:2013)  
- zamijenjena s: HRN EN 15273-3:2016

### **HRN EN 16241:2014 en**

Željeznički sustav – Regulator kočnog polužja (EN 16241:2014)  
Railway applications – Slack adjuster (EN 16241:2014)  
- zamijenjena s: HRN EN 16241:2016

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

### **HRN EN ISO 1043-3:2008 en**

Plastika – Simboli i skraćeni nazivi – 3. dio: Omekšavala (ISO 1043-3:1996; EN ISO 1043-3:1999)  
Plastics – Symbols and abbreviated terms – Part 3: Plasticizers (ISO 1043-3:1996;  
EN ISO 1043-3:1999)

- zamijenjena s: HRN EN ISO 1043-3:2016

### **HRN EN ISO 1401:2008 en**

Gumena crijeva za poljoprivredne prskalice (ISO 1401:1999; EN ISO 1401:1999)  
Rubber hoses for agricultural spraying (ISO 1401:1999; EN ISO 1401:1999)

- zamijenjena s: HRN EN ISO 1401:2016

### **HRN EN ISO 2398:2009 en**

Gumena crijeva, ojačana tekstilom, za stlačeni zrak – Specifikacija (ISO 2398:2006;  
EN ISO 2398:2008)  
Rubber hoses, textile-reinforced, for compressed air – Specification (ISO 2398:2006;  
EN ISO 2398:2008)

- zamijenjena s: HRN EN ISO 2398:2016

### **HRN EN ISO 7233:2008 en**

Gumena i plastična crijeva i crijevni uređaji – Određivanje podtlačne čvrstoće (ISO 7233:2006;  
EN ISO 7233:2008)  
Rubber and plastics hoses and hose assemblies – Determination of resistance to vacuum  
(ISO 7233:2006; EN ISO 7233:2008)

- zamijenjena s: HRN EN ISO 7233:2016

### **HRN EN ISO 7326:2008 en**

Gumena i plastična crijeva – Procjena postojanosti na ozon pri statičkim uvjetima (ISO 7326:2006;  
EN ISO 7326:2008)  
Rubber and plastics hoses – Assessment of ozone resistance under static conditions (ISO 7326:2006;  
EN ISO 7326:2008)

- zamijenjena s: HRN EN ISO 7326:2016

### **HRN EN ISO 7751:2008 en**

Gumena i plastična crijeva i crijevni sklopovi – Omjeri ispitnih tlakova i tlakova do prsnuća za  
određivanje radnog tlaka (ISO 7751:1991; EN ISO 7751:1997)  
Rubber and plastics hoses and hose assemblies – Ratios of proof and burst pressure to design  
working pressure (ISO 7751:1991; EN ISO 7751:1997)

- zamijenjena s: HRN EN ISO 7751:2016

### **HRN EN ISO 8331:2014 en**

Gumena i plastična crijeva i crijevni sklopovi – Smjernice za odabir, skladištenje, uporabu i održavanje  
(ISO 8331:2014; EN ISO 8331:2014)  
Rubber and plastics hoses and hose assemblies – Guidelines for selection, storage, use and  
maintenance (ISO 8331:2014; EN ISO 8331:2014)

- zamijenjena s: HRN EN ISO 8331:2016

### **HRN EN ISO 11357-1:2010 en**

Plastika – Diferencijalna pretražna kalorimetrija (DSC) – 1. dio: Opća načela (ISO 11357-1:2009;  
EN ISO 11357-1:2009)  
Plastics – Differential scanning calorimetry (DSC) – Part 1: General principles (ISO 11357-1:2009;  
EN ISO 11357-1:2009)

- zamijenjena s: HRN EN ISO 11357-1:2016

**HRN EN ISO 11469:2008 en**

Plastika – Opća identifikacija i označivanje plastičnih proizvoda (ISO 11469:2000;

EN ISO 11469:2000)

Plastics – Generic identification and marking of plastics products (ISO 11469:2000;

EN ISO 11469:2000)

- zamijenjena s: HRN EN ISO 11469:2016

**HRN EN ISO 15512:2014 en**

Plastika – Određivanje sadržaja vode (ISO 15512:2014; EN ISO 15512:2014)

Plastics – Determination of water content (ISO 15512:2014; EN ISO 15512:2014)

- zamijenjena s: HRN EN ISO 15512:2016

**HRN EN 15701:2009 en**

Plastika – Plastomerni plaštevi za izoliranje građevinske opreme i industrijskih instalacija – Zahtjevi i ispitne metode (EN 15701:2009)

Plastics – Thermoplastic jackets for insulation products for building equipment and industrial installations – Requirements and test methods (EN 15701:2009)

- zamijenjena s: HRN EN 15701:2016

**HNZ/TO 534, Spremnići za teret****HRN EN 1252-1:2004 en**

Kriogenične posude – Materijali – 1. dio: Zahtjevi za žilavost pri temperaturama ispod -80 °C (EN 1252-1:1998+AC:1998)

Cryogenic vessels – Materials – Part 1: Toughness requirements for temperatures below -80 °C (EN 1252-1:1998+AC:1998)

- zamijenjena s: HRN EN ISO 21028-1:2016

**HRN EN 12642:2008 en**

Osiguranje tereta na cestovnim vozilima – Konstrukcija postolja gospodarskih vozila – Minimalni zahtjevi (EN 12642:2006)

Securing of cargo on road vehicles – Body structure of commercial vehicles – Minimum requirements (EN 12642:2006)

- zamijenjena s: HRN EN 12642:2016

**HNZ/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija****HRN EN ISO 14660-2:2008 en**

Geometrijske specifikacije proizvoda (GSP) – Geometrijske značajke – 2. dio: Izvedena medijanska crta valjka i stočka, medijanska ploha, lokalna veličina izvedene značajke (ISO 14660-2:1999; EN ISO 14660-2:1999)

Geometrical Product Specifications (GPS) – Geometrical features – Part 2: Extracted median line of a cylinder and a cone, extracted median surface, local size of an extracted feature (ISO 14660-2:1999; EN ISO 14660-2:1999)

- zamijenjena s: HRN EN ISO 17450-3:2016

**HNZ/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama****HRN EN 779:2012 en**

Zračni filtri za čestice pri općoj ventilaciji – Određivanje značajka filtracije (EN 779:2012)

Particulate air filters for general ventilation – Determination of the filtration performance (EN 779:2012)

- zamijenjena s: HRN EN ISO 16890-1:2016, HRN EN ISO 16890-2:2016,

HRN EN ISO 16890-3:2016, HRN EN ISO 16890-4:2016

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

### **HRN EN 13618:2011 en**

Sklopovi od fleksibilnih crijeva u instalacijama za pitku vodu – Funkcionalni zahtjevi i metode ispitivanja (EN 13618:2011)  
Flexible hose assemblies in drinking water installations – Functional requirements and test methods (EN 13618:2011)  
- zamijenjena s: HRN EN 13618:2016

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

### **HRN EN ISO 10545-13:2001 en**

Keramičke pločice – 13. dio: Određivanje otpornosti na kemikalije (ISO 10545-13:1995; EN ISO 10545-13:1997)  
Ceramic tiles – Part 13: Determination of chemical resistance (ISO 10545-13:1995; EN ISO 10545-13:1997)  
- zamijenjena s: HRN EN ISO 10545-13:2016

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

### **HRN EN 866-1:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 1. dio: Opći zahtjevi (EN 866-1:1997)  
Biological systems for testing sterilizers and sterilization processes – Part 1: General requirements (EN 866-1:1997)  
- zamijenjena s: HRN EN ISO 11138-1:2008

### **HRN EN 866-2:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 2. dio: Posebni sustavi za sterilizaciju s etilen oksidom (EN 866-2:1997+AC:1998)  
Biological systems for testing sterilizers and sterilization processes – Part 2: Particular systems for use in ethylene oxide sterilizers (EN 866-2:1997+AC:1998)  
- bez zamjene

### **HRN EN 866-3:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 3. dio: Posebni sustavi za sterilizaciju vlažnom toplinom (EN 866-3:1997)  
Biological systems for testing sterilizers and sterilization processes – Part 3: Particular systems for use in moist heat sterilizers (EN 866-3:1997)  
- bez zamjene

### **HRN EN 866-4:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 4. dio: Posebni sustavi za sterilizaciju zračenjem (EN 866-4:1999)  
Biological systems for testing sterilizers and sterilization processes – Part 4: Particular systems for use in irradiation sterilizers (EN 866-4:1999)  
- bez zamjene

### **HRN EN 866-5:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 5. dio: Posebni sustavi za sterilizaciju niskotemperaturnom parom i sterilizaciju formaldehidom (EN 866-5:1999)  
Biological systems for testing sterilizers and sterilization processes – Part 5: Particular systems for use in low temperature steam and formaldehyde sterilizers (EN 866-5:1999)  
- zamijenjena s: HRN EN ISO 11138-5:2008

**HRN EN 866-6:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 6. dio: Posebni sustavi za sterilizaciju suhim zrakom (EN 866-6:1999)  
Biological systems for testing sterilizers and sterilization processes – Part 6: Particular systems for use in dry heat sterilizers (EN 866-6:1999)  
- zamijenjena s: HRN EN ISO 11138-4:2008

**HRN EN 866-7:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 7. dio: Posebni zahtjevi za sustave bioloških indikatora s vlastitim kontejnerom za sterilizatore s vlažnom toplinom (EN 866-7:1999)  
Biological systems for testing sterilizers and sterilization processes – Part 7: Particular requirements for self contained biological indicator systems for use in moist heat sterilizers (EN 866-7:1999)  
- bez zamjene

**HRN EN 866-8:2005 en**

Biološki sustavi za ispitivanje sterilizatora i sterilizacijskih postupaka – 8. dio: Posebni zahtjevi za sustave bioloških indikatora s vlastitim kontejnerom za sterilizatore s etilen oksidom (EN 866-8:1999)  
Biological systems for testing sterilizers and sterilization processes – Part 8: Particular requirements for self-contained biological indicator systems for use in ethylene oxide sterilizers (EN 866-8:1999)  
- bez zamjene

**HRN EN 12286:2008 en**

Medicinski proizvodi za in vitro dijagnostiku – Mjerenje količina u uzorcima biološkog podrijetla – Prikaz referentnih mjernih postupaka (EN 12286:1998+A1:2000)  
In vitro diagnostic medical devices – Measurement of quantities in samples of biological origin – Presentation of reference measurement procedures (EN 12286:1998+A1:2000)  
- zamijenjena s: HRN EN ISO 15193:2010

**HRN EN 12287:2008 en**

Medicinski proizvodi za in vitro dijagnostiku – Mjerenje količina u uzorcima biološkog podrijetla – Opis referentnih tvari (EN 12287:1999)  
In vitro diagnostic medical devices – Measurement of quantities in samples of biological origin – Description of reference materials (EN 12287:1999)  
- zamijenjena s: HRN EN ISO 15194:2010

**HRN EN 13640:2008 en**

Ispitivanje postojanosti in vitro dijagnostičkih reagensa (EN 13640:2002)  
Stability testing of in vitro diagnostic reagents (EN 13640:2002)  
- bez zamjene

**HRN EN ISO 15223-1:2012 en**

Medicinski proizvodi – Simboli za oznake medicinskih proizvoda, označivanje i potrebne informacije – 1. dio: Opći zahtjevi (ISO 15223-1:2012; EN ISO 15223-1:2012)  
Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements (ISO 15223-1:2012; EN ISO 15223-1:2012)  
- zamijenjena s: HRN EN ISO 15223-1:2016

**HRN EN ISO 22870:2008 en**

Pretrage uz bolesnika (POCT) – Zahtjevi za kvalitetu i sposobljenost (ISO 22870:2006;  
EN ISO 22870:2006)  
Point-of-care testing (POCT) – Requirements for quality and competence (ISO 22870:2006;  
EN ISO 22870:2006)  
- zamijenjena s: HRN EN ISO 22870:2016

## **HZN/TO 557, Zaštitna odjeća**

### **HRN EN 367:2001 en**

Zaštitna odjeća – Zaštita od topline i vatre – Metoda određivanja prijenosa topline pri izlaganju plamenu (EN 367:1992)  
Protective clothing – Protection against heat and fire – Method of determining heat transmission on exposure to flame (EN 367:1992)  
- zamijenjena s: HRN EN ISO 9151:2016

### **HRN EN 367:2001/AC:2005 en**

Zaštitna odjeća – Zaštita od topline i vatre – Metoda određivanja prijenosa topline pri izlaganju plamenu (EN 367:1992/AC:1992)  
Protective clothing – Protection against heat and fire – Method of determining heat transmission on exposure to flame (EN 367:1992/AC:1992)  
- zamijenjena s: HRN EN ISO 9151:2016

### **HRN EN 374-1:2003 en**

Rukavice za zaštitu od kemikalija i mikroorganizama – 1. dio: Nazivlje i zahtjevi na svojstva (EN 374-1:2003)  
Protective gloves against chemicals and micro-organisms – Part 1: Terminology and performance requirements (EN 374-1:2003)  
- zamijenjena s: HRN EN ISO 374-1:2016

### **HRN EN 388:2004 en**

Rukavice za zaštitu od mehaničkih rizika (EN 388:2003)  
Protective gloves against mechanical risks (EN 388:2003)  
- zamijenjena s: HRN EN 388:2016

### **HRN EN ISO 15025:2003 en**

Zaštitna odjeća – Zaštita od topline i plamena – Metoda ispitivanja za ograničeno širenje plamena (ISO 15025:2000; EN ISO 15025:2002)  
Protective clothing – Protection against heat and flame – Method of test for limited flame spread (ISO 15025:2000; EN ISO 15025:2002)  
- zamijenjena s: HRN EN ISO 15025:2016

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

### **HRN EN ISO 4674-1:2008 en**

Plošne tekstilije naslojene gumom ili plastikom – Određivanje otpornosti na daljne trganje – 1. dio: Postupci ispitivanja uz konstantnu brzinu istezanja (ISO 4674-1:2003; EN ISO 4674-1:2003)  
Rubber- or plastics-coated fabrics – Determination of tear resistance – Part 1: Constant rate of tear methods (ISO 4674-1:2003; EN ISO 4674-1:2003)  
- zamijenjena s: HRN EN ISO 4674-1:2016

### **HRN EN ISO 5470-1:2008 en**

Plošne tekstilije naslojene gumom ili plastikom – Određivanje otpornosti na habanje – 1. dio: Habalica po Taberu (ISO 5470-1:1999; EN ISO 5470-1:1999)  
Rubber- or plastics-coated fabrics – Determination of abrasion resistance – Part 1: Taber abrader (ISO 5470-1:1999; EN ISO 5470-1:1999)  
- zamijenjena s: HRN EN ISO 5470-1:2016

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

### **HRN EN 24230:2009 en**

Ručne i strojne nareznice za konične cijevne navoje – R serija (ISO 4230:1987; EN 24230:1989)  
Hand- and machine-operated circular screwing dies for taper pipe threads – R series (ISO 4230:1987; EN 24230:1989)  
- zamijenjena s: HRN EN ISO 4230:2016

**HRN EN 24231:2009 en**

Ručne i strojne nareznice za paralelne cijevne navoje – G serija (ISO 4231:1987; EN 24231:1989+AC1:1989)

Hand- and machine-operated circular screwing dies for parallel pipe threads – G series (ISO 4231:1987; EN 24231:1989+AC1:1989)

- zamjenjena s: HRN EN ISO 4231:2016

**HNZ/TO 566, *Mlijeko i mlječni proizvodi*****HRN EN ISO 8261:2003 en**

Mlijeko i mlječni proizvodi – Opće smjernice za pripremu ispitnih uzoraka, osnovnih i decimalnih razrijeđenja za mikrobiološko ispitivanje (ISO 8261:2001; EN ISO 8261:2001)

Milk and milk products – General guidance for the preparation of test samples, initial suspensions and decimal dilutions for microbiological examination (ISO 8261:2001; EN ISO 8261:2001)

- zamjenjena s: HRN EN ISO 6887-5:2011

**HRN ISO 9874:2007/Ispr.1:2016 en**

Mlijeko – Određivanje udjela ukupnog fosfora – Metoda uporabom molekularne apsorpcijske spektrometrije (ISO 9874:2006/Cor 1:2007)

Milk – Determination of total phosphorus content – Method using molecular absorption spectrometry (ISO 9874:2006/Cor 1:2007)

- bez zamjene

**HNZ/TO 567, *Meso, proizvodi ribarstva i akvakultura*****HRN ISO 1840:1999 en,fr,ru**

Definicija živih životinja za klanje – Svinje (ISO 1840:1976)

Definitions of living animals for slaughter – Porcines (ISO 1840:1976)

- bez zamjene

**HNZ/TO 568, *Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom*****HRN EN 1377:1998/Ispr.1:2016 en**

Namirnice – Određivanje količine acesulfama K u stolnim umjetnim sladilima – Spektrometrijska metoda (EN 1377:1996/AC:1996)

Foodstuffs – Determination of acesulfame K in table top sweetener preparations – Spectrometric method (EN 1377:1996/AC:1996)

- bez zamjene

**HRN EN 1379:1998/Ispr.1:2016 en**

Namirnice – Određivanje količine ciklamata i saharina u tekućim stolnim umjetnim sladilima – Metoda tekućinske kromatografije visokog učinka (EN 1379:1996/AC:1996)

Foodstuffs – Determination of cyclamate and saccharin in liquid table top sweetener preparations – Method by high performance liquid chromatography (EN 1379:1996/AC:1996)

- bez zamjene

**HRS CEN ISO/TS 10272-3:2011 en**

Mikrobiologija hrane i hrane za životinje – Horizontalna metoda za dokazivanje i određivanje broja bakterija *Campylobacter* spp. – 3. dio: Semi-kvantitativna metoda (ISO/TS 10272-3:2010; CEN ISO/TS 10272-3:2010)

Microbiology of food and animal feeding stuffs – Horizontal method for detection and enumeration of *Campylobacter* spp. – Part 3: Semi-quantitative method (ISO/TS 10272-3:2010; CEN ISO/TS 10272-3:2010)

- bez zamjene

**HRS CEN ISO/TS 10272-3:2011/Ispr.1:2012 en**

Mikrobiologija hrane i hrane za životinje – Horizontalna metoda za detekciju i određivanje broja bakterija *Campylobacter* spp. – 3. dio: Semikvantitativna metoda – Tehnički ispravak 1 (ISO/TS 10272-3:2010/Cor 1:2011; CEN ISO/TS 10272-3:2010/AC:2011)  
Microbiology of food and animal feeding stuffs – Horizontal method for detection and enumeration of *Campylobacter* spp. – Part 3: Semi-quantitative method – Technical Corrigendum 1 (ISO/TS 10272-3:2010/Cor 1:2011; CEN ISO/TS 10272-3:2010/AC:2011)  
- bez zamjene

**HRN ISO 13681:2001 en**

Meso i mesni proizvodi – Brojenje kolonija kvasaca i pljesni – Brojenje kolonija (ISO 13681:1995)  
Meat and meat products – Enumeration of yeasts and moulds – Colony-count technique (ISO 13681:1995)  
- bez zamjene

**HNZ/TO 571, *Sport, igrališta i ostali rekreacijski sadržaji i oprema*****HRN EN 957-4:2011 en**

Oprema za vježbanje – 4. dio: Klupe za jačanje (benč), dodatni posebni sigurnosni zahtjevi i metode ispitivanja (EN 957-4:2006+A1:2010)  
Stationary training equipment – Part 4: Strength training benches, additional specific safety requirements and test methods (EN 957-4:2006+A1:2010)  
- zamijenjena s: HRN EN ISO 20957-4:2016

**HRN EN 957-9:2005 en**

Oprema za vježbanje – 9. dio: Sprave za vježbanje s eliptičnim kretanjem, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (EN 957-9:2003)  
Stationary training equipment – Part 9: Elliptical trainers, additional specific safety requirements and test methods (EN 957-9:2003)  
- zamijenjena s: HRN EN ISO 20957-9:2016

**HRN EN 13451-1:2012 en**

Oprema za bazene – 1. dio: Opći sigurnosni zahtjevi i metode ispitivanja (EN 13451-1:2011)  
Swimming pool equipment – Part 1: General safety requirements and test methods (EN 13451-1:2011)  
- zamijenjena s: HRN EN 13451-1:2016

**HRN EN 13537:2013 en**

Zahtjevi za vreće za spavanje (EN 13537:2012)  
Requirements for sleeping bags (EN 13537:2012)  
- zamijenjena s: HRN EN ISO 23537-1:2016, HRN EN ISO 23537-2:2016

**HNZ/TO E31, *Eksplozivne atmosfere*****HRN EN ISO 16852:2011 en**

Ovodnici plamena – Zahtjevi za pogonska svojstva, ispitne metode i ograničenja za uporabu (ISO 16852:2008+Cor 1:2008+Cor 2:2009; EN ISO 16852:2010)  
Flame arresters – Performance requirements, test methods and limits for use (ISO 16852:2008+Cor 1:2008+Cor 2:2009; EN ISO 16852:2010)  
- zamijenjena s: HRN EN ISO 16852:2016

**HNZ/TO E56, *Pouzdanost*****HRN EN 61078:2008 en**

Metode analize pouzdanosti – Metoda blok dijagrama i Booleova metoda (IEC 61078:2006; EN 61078:2006)  
Analysis techniques for dependability – Reliability block diagram and boolean methods (IEC 61078:2006; EN 61078:2006)  
- zamijenjena s: HRN EN 61078:2016

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

### **HRN EN ISO 11210:2008 en**

Utvrdjivanje platine u nakitu od legura platine – Gravimetrijska metoda nakon taloženja diamonijevog heksakloroplatinata (ISO 11210:1995; EN ISO 11210:1995)

Determination of platinum in platinum jewellery alloys – Gravimetric method after precipitation of diammonium hexachloroplatinate (ISO 11210:1995; EN ISO 11210:1995)

- zamjenjena s: HRN EN ISO 11210:2016

### **HRN EN ISO 11426:2008 en**

Utvrdjivanje zlata u nakitu od legura zlata – Metoda kupelacije (analiza vatrom) (ISO 11426:1997; EN ISO 11426:1998)

Determination of gold in gold jewellery alloys – Cupellation method (fire assay) (ISO 11426:1997; EN ISO 11426:1998)

- zamjenjena s: EN ISO 11426:2016

### **HRN EN ISO 11490:2008 en**

Utvrdjivanje paladija u nakitu od legura paladija – Gravimetrijska metoda s dimetilglioksimom (ISO 11490:1995; EN ISO 11490:1995)

Determination of palladium in palladium jewellery alloys – Gravimetric method with dimethyl glyoxime (ISO 11490:1995; EN ISO 11490:1995)

- zamjenjena s: EN ISO 11490:2016

### **HRN EN 29202:2008 en**

Nakit – Finoča legura plemenitih metala (ISO 9202:1991; EN 29202:1992)

Jewellery – Fineness of precious metal alloys (ISO 9202:1991; EN 29202:1992)

- zamjenjena s: HRN EN ISO 9202:2016

### **HRN EN 31427:2008 en**

Utvrdjivanje srebra u legurama srebrnog nakita – Volumetrijska (potenciometrijska) metoda uporabom kalij bromida (ISO 11427:1993+Cor 1:1994; EN 31427:1994+AC:1994)

Determination of silver in silver jewellery alloys – Volumetric (potentiometric) method using potassium bromide (ISO 11427:1993+Cor 1:1994; EN 31427:1994+AC:1994)

- zamjenjena s: HRN EN ISO 11427:2016

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

### **HRN ISO 765:2000 hr,en,fr**

Pesticidi koji ne zahtijevaju uobičajena imena (ISO 765:1976)

Pesticides not considered to require common names (ISO 765:1976)

- bez zamjene

### **HRN ISO 1750/Dodatak 1:2001 hr,en,fr**

Pesticidi i druge kemikalije za poljoprivredu – Uobičajena imena (ISO 1750:1981/A1:1983)

Pesticides and other agrochemicals – Common names (ISO 1750:1981/A1:1983)

- bez zamjene

### **HRN ISO 1750/Dodatak 2:2001 hr,en,fr**

Pesticidi i druge kemikalije za poljoprivredu – Uobičajena imena (ISO 1750:1981/A2:1983)

Pesticides and other agrochemicals – Common names (ISO 1750:1981/A2:1983)

- bez zamjene

### **HRN ISO 1750:2001 hr,en,fr**

Pesticidi i druge kemikalije za poljoprivredu – Uobičajena imena (ISO 1750:1981)

Pesticides and other agrochemicals – Common names (ISO 1750:1981)

- bez zamjene

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

### **HRN EN ISO 9856:2009 en**

Transportne trake – Određivanje elastičnog i trajnog izduženja i izračunavanje modula elastičnosti (ISO 9856:2003; EN ISO 9856:2003)

Conveyor belts – Determination of elastic and permanent elongation and calculation of elastic modulus (ISO 9856:2003; EN ISO 9856:2003)

- zamijenjena s: HRN EN ISO 9856:2016

### **HRN EN ISO 9856:2009/A1:2013 en**

Transportne trake – Određivanje elastičnog i trajnog izduženja i izračunavanje modula elastičnosti (ISO 9856:2003/Amd 1:2012; EN ISO 9856:2003/A1:2012)

Conveyor belts – Determination of elastic and permanent elongation and calculation of elastic modulus (ISO 9856:2003/Amd 1:2012; EN ISO 9856:2003/A1:2012)

- zamijenjena s: HRN EN ISO 9856:2016

### **HRN EN ISO 15236-1:2008 en**

Steel cord conveyor belts – Part 1: Design, dimensions and mechanical requirements for conveyor belts for general use (ISO 15236-1:2005; EN ISO 15236-1:2005)

- zamijenjena s: HRN EN ISO 15236-1:2016

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

### **HRN EN ISO 5832-3:2013 en**

Kirurški implantati – Metalni materijali – 3. dio: Kovana legura titana koja sadrži 6% aluminija i 4% vanadija (ISO 5832-3:1996; EN ISO 5832-3:2012)

Implants for surgery – Metallic materials – Part 3: Wrought titanium 6-aluminium 4-vanadium alloy (ISO 5832-3:1996; EN ISO 5832-3:2012)

- zamijenjena s: HRN EN ISO 5832-3:2016

### **HRN EN ISO 7153-1:2008 en**

Kirurški instrumenti – Metalni materijali – 1. dio: Nehrđajući čelik (ISO 7153-1:1991+Amd 1:1999; EN ISO 7153-1:2000)

Surgical instruments – Metallic materials – Part 1: Stainless steel (ISO 7153-1:1991+Amd 1:1999; EN ISO 7153-1:2000)

- zamijenjena s: HRN EN ISO 7153-1:2016

### **HRN EN ISO 8871-5:2015 en**

Elastomerni dijelovi za parenteralne preparate i uređaje za farmaceutsku primjenu – 5. dio:

Funkcionalni zahtjevi i ispitivanja (ISO 8871-5:2005; EN ISO 8871-5:2014)

Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 5: Functional requirements and testing (ISO 8871-5:2005; EN ISO 8871-5:2014)

- zamijenjena s: HRN EN ISO 8871-5:2016

### **HRN EN ISO 9173-1:2008 en**

Stomatologija – Klješta za ekstrakciju – 1. dio: Opći zahtjevi i metode ispitivanja (ISO 9173-1:2006; EN ISO 9173-1:2006)

Dentistry – Extraction forceps – Part 1: General requirements and test methods (ISO 9173-1:2006; EN ISO 9173-1:2006)

- zamijenjena s: HRN EN ISO 9173-1:2016

### **HRN EN ISO 9999:2011 en**

Pomagala za osobe s invaliditetom – Klasifikacija i nazivlje (ISO 9999:2011; EN ISO 9999:2011)

Assistive products for persons with disability – Classification and terminology (ISO 9999:2011; EN ISO 9999:2011)

- zamijenjena s: HRN EN ISO 9999:2016

**HRN EN ISO 14801:2008 en**

Stomatologija – Implantati – Dinamičko ispitivanje zamora endosalnih zubnih implantata (ISO 14801:2007; EN ISO 14801:2007)

Dentistry – Implants – Dynamic fatigue test for endosseous dental implants (ISO 14801:2007; EN ISO 14801:2007)

- zamijenjena s: HRN EN ISO 14801:2016)

**HRN EN ISO 16409:2008 en**

Stomatologija – Proizvodi za higijenu usne šupljine – Ručne interdentalne četkice (ISO 16409:2006; EN ISO 16409:2006)

Dentistry – Oral hygiene products – Manual interdental brushes (ISO 16409:2006; EN ISO 16409:2006)

- zamijenjena s: HRN EN ISO 16409:2016

**HRN EN ISO 16409:2008/A1:2011 en**

Stomatologija – Proizvodi za higijenu usne šupljine – Ručne interdentalne četkice – Amandman 1 (ISO 16409:2006/Amd 1:2010; EN ISO 16409:2006/A1:2010)

Dentistry – Oral hygiene products – Manual interdental brushes – Amendment 1 (ISO 16409:2006/Amd 1:2010; EN ISO 16409:2006/A1:2010)

- zamijenjena s: HRN EN ISO 16409:2016

**HRN EN 23964:2008 en**

Stomatologija – Stomatološki nastavci – Dimenzije spojnica (ISO 3964:1982; EN 23964:1989)

Dentistry – Dental handpieces – Coupling dimensions (ISO 3964:1982; EN 23964:1989)

- zamijenjena s: HRN EN ISO 3964:2016

***HN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1*****HRN EN 4165-013:2008 en**

Nizovi o zrakoplovstvu – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – 013. dio: Stega za kabel za module 2 i 4 za spojnice, serije 2 i serije 3 – Norma za proizvod (EN 4165-013:2005)

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 013: Cable clamp 2 and 4 modules for connectors, series 2 and series 3 – Product standard (EN 4165-013:2005)

- zamijenjena s: HRN EN 4165-013:2016

**HRN EN 4701-002:2013 en**

Zrakoplovstvo – Optičke, pravokutne i modularne spojnice, radne temperature 125 °C, za kontakte prema normi EN 4531-101 – Dio 002: Materijal (EN 4701-002:2013)

Aerospace series – Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts – Part 002: Material (EN 4701-002:2013)

- zamijenjena s: HRN EN 4701-002:2016

## 1.6 Ispravci hrvatskih norma

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

### **HZN/ TO 134, Gnojiva i poboljšivači tla**

- umjesto

**HRN 1104:2002**

Gnojiva – Određivanje sadržaja kalija – Metoda plamene emisijske **spektrofotometrije**

Fertilizers – Determination of potassium content – Flame emission spectrophotometric method

- treba biti

**HRN 1104:2002**

Gnojiva – Određivanje sadržaja kalija – Metoda plamene emisijske **fotometrije**

Fertilizers – Determination of potassium content – Flame emission spectrophotometric method

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

- umjesto

**HRN EN ISO 1:2016**

Geometrijska specifikacija proizvoda (GSP) – Standardna referentna temperatura za specifikaciju geometrijskih i dimenzijskih **osobina** (ISO 1:2016; EN ISO 1:2016)

Geometrical product specifications (GPS) – Standard reference temperature for the specification of geometrical and dimensional properties (ISO 1:2016; EN ISO 1:2016)

- treba biti

**HRN EN ISO 1:2016**

Geometrijska specifikacija proizvoda (GSP) – Standardna referentna temperatura za specifikaciju geometrijskih i dimenzijskih **svojstava** (ISO 1:2016; EN ISO 1:2016)

Geometrical product specifications (GPS) – Standard reference temperature for the specification of geometrical and dimensional properties (ISO 1:2016; EN ISO 1:2016)

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

- umjesto

**HRN EN 61252:1998**

Elektroakustika – Specifikacije za **osobna mjerila** izloženosti zvuku (IEC 61252:1993; EN 61252:1995)

Electroacoustics – Specifications for personal sound exposure meters (IEC 61252:1993; EN 61252:1995)

- treba biti

**HRN EN 61252:1998**

Elektroakustika – Specifikacije za **mjerila osobne** izloženosti zvuku (IEC 61252:1993; EN 61252:1995)

Electroacoustics – Specifications for personal sound exposure meters (IEC 61252:1993; EN 61252:1995)

- **umjesto**

**HRN EN 61252:1998/A1:2002**

Elektroakustika – **Zahtjevi** za mjerila osobne izloženosti **buci** (IEC 61252:1993/A1:2000; EN 61252:1995/A1:2001)

Electroacoustics – Specifications for personal sound exposure meters (IEC 61252:1993/A1:2000; EN 61252:1995/A1:2001)

- **treba biti**

**HRN EN 61252:1998/A1:2002**

Elektroakustika – **Specifikacije** za mjerila osobne izloženosti **zvuku** (IEC 61252:1993/A1:2000; EN 61252:1995/A1:2001)

Electroacoustics – Specifications for personal sound exposure meters (IEC 61252:1993/A1:2000; EN 61252:1995/A1:2001)

- **umjesto**

**HRN EN 61260-2:2016**

Elektroakustika – Oktavni i pojasci filtri s proporcionalnim širinama pojasa – 2. dio: **Ispitivanje prijenosnih karakteristika** (IEC 61260-2:2016; EN 61260-2:2016)

Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016; EN 61260-2:2016)

- **treba biti**

**HRN EN 61260-2:2016**

Elektroakustika – Oktavni i pojasci filtri s proporcionalnim širinama pojasa – 2. dio: **Tipno ispitivanje** (IEC 61260-2:2016; EN 61260-2:2016)

Electroacoustics – Octave-band and fractional-octave-band filters – Part 2: Pattern-evaluation tests (IEC 61260-2:2016; EN 61260-2:2016)

## **HN/T0 T4, Normizacija u telekomunikacijama**

- **umjesto**

**HRN EN 300 113 V2.1.1:2016**

Kopnena pokretna služba – Radijska oprema namijenjena prijenosu podataka (i/ili govora) **sa stalnom ili promjenjivom modulacijskom ovojnicom i antenskim spojnikom** – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 300 113 V2.1.1:2016)

Land Mobile Service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 113 V2.1.1:2016)

- **treba biti**

**HRN EN 300 113 V2.1.1:2016**

Kopnena pokretna služba – Radijska oprema namijenjena prijenosu podataka (i/ili govora) **primjenom stalne ili promjenjive modulacije ovojnica i koja ima antenski priključak** – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 300 113 V2.1.1:2016)

Land Mobile Service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 113 V2.1.1:2016)

- **umjesto**

**HRN EN 300 396-6 V1.5.1:2013**

Terestrialni **trunking** radio (TETRA) – Izravan način rada (DMO) – 6. dio: Sigurnost (EN 300 396-6 V1.5.1:2012)

Terrestrial Trunked Radio (TETRA) – Direct Mode Operation (DMO) – Part 6: Security (EN 300 396-6 V1.5.1:2012)

- **treba biti**

**HRN EN 300 396-6 V1.5.1:2013**

Terestrialni **trunking** radio (TETRA) – Izravan način rada (DMO) – 6. dio: Sigurnost (EN 300 396-6 V1.5.1:2012)

Terrestrial Trunked Radio (TETRA) – Direct Mode Operation (DMO) – Part 6: Security (EN 300 396-6 V1.5.1:2012)

- **umjesto**

**HRN EN 301 489-27 V1.1.1:2005**

Elektromagnetska kompatibilnost i radiospektar (ERM) – Norma elektromagnetske kompatibilnosti (EMC) za radijsku opremu i službe – 27. dio: Posebni uvjeti za aktivne medicinske implantate veoma male snage (ULP-AMI) i odgovarajuće **periferalne** naprave (EN 301 489-27 V1.1.1:2004)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (EN 301 489-27 V1.1.1:2004)

- **treba biti**

**HRN EN 301 489-27 V1.1.1:2005**

Elektromagnetska kompatibilnost i radiospektar (ERM) – Norma elektromagnetske kompatibilnosti (EMC) za radijsku opremu i službe – 27. dio: Posebni uvjeti za aktivne medicinske implantate veoma male snage (ULP-AMI) i odgovarajuće **periferne** naprave (EN 301 489-27 V1.1.1:2004)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (EN 301 489-27 V1.1.1:2004)

- **umjesto**

**HRN EN 301 489-29 V1.1.1:2009**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma za elektromagnetsku kompatibilnost (EMC) radijske opreme i službe – 29. dio: Posebni uvjeti za uređaje medicinske podatkovne usluge (MEDS) u frekvencijskim **pojasevima** 401 MHz do 402 MHz i 405 MHz do 406 MHz (EN 301 489-29 V1.1.1:2009)

Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) standard for radio equipment and services – Part 29: Specific conditions for medical data service devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands (EN 301 489-29 V1.1.1:2009)

- **treba biti**

**HRN EN 301 489-29 V1.1.1:2009**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma za elektromagnetsku kompatibilnost (EMC) radijske opreme i službe – 29. dio: Posebni uvjeti za uređaje medicinske podatkovne usluge (MEDS) u frekvencijskim **pojasima** 401 MHz do 402 MHz i 405 MHz do 406 MHz (EN 301 489-29 V1.1.1:2009)

Electromagnetic compatibility and radio spectrum matters (ERM) – Electromagnetic compatibility (EMC) standard for radio equipment and services – Part 29: Specific conditions for medical data service devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands (EN 301 489-29 V1.1.1:2009)

- **umjesto**

**HRN EN 301 908-3 V11.1.1:2016**

IMT celularne mreže – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Bazne postaje (BS) za CDMA s izravnim **raspršivanjem** (UTRA FDD) (EN 301 908-3 V11.1.1:2016)

IMT cellular networks – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS) (EN 301 908-3 V11.1.1:2016)

- **treba biti**

**HRN EN 301 908-3 V11.1.1:2016**

IMT celularne mreže – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Bazne postaje (BS) za CDMA s izravnim **proširenjem** (UTRA FDD) (EN 301 908-3 V11.1.1:2016)

IMT cellular networks – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS) (EN 301 908-3 V11.1.1:2016)

**U HZN Glasilu 5/2016, rubrika 1.1 Hrvatske norme, pogrešno su objavljeni ispravci HRN EN 1379:1998/Ispr.1:2016 i HRN ISO 9874:2007/Ispr.1:2016 te HRN EN 1377:1998/Ispr.1:2016 kao hrvatske norme.**

## **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 T4, Normizacija u telekomunikacijama**

**HRN EN 300 700 V1.2.1:2009**

Digitalne poboljšane bežične telekomunikacije (DECT) – Bežična reljena stanica (WRS) (EN 300 700 V1.2.1:2000)

Digital Enhanced Cordless Telecommunications (DECT) – Wireless Relay Station (WRS) (EN 300 700 V1.2.1:2000)

**HRN ETS 300 700 V1:2012**

Digitalne poboljšane bežične telekomunikacije (DECT) – Bežična reljena stanica (WRS) (ETS 300 700 ed.1:1997)

Digital Enhanced Cordless Telecommunications (DECT) – Wireless Relay Station (WRS) (ETS 300 700 ed.1:1997)

**HRN EN 302 064-1 V1.1.1:2009**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Bežični video linkovi (WVL) koji rade u frekvencijskom pojasu 1,3 GHz do 50 GHz – 1. dio: Tehničke karakteristike i metode mjerena (EN 302 064-1 V1.1.1:2004)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless Video Links (WVL) operating in the 1,3 GHz to 50 GHz frequency band – Part 1: Technical characteristics and methods of measurement (EN 302 064-1 V1.1.1:2004)

**HRN EN 302 064-1 V1.1.2:2009**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Bežični video linkovi (WVL) koji rade u frekvencijskom pojasu 1,3 GHz do 50 GHz – 1. dio: Tehničke karakteristike i metode mjerena (EN 302 064-1 V1.1.2:2004)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless Video Links (WVL) operating in the 1,3 GHz to 50 GHz frequency band – Part 1: Technical characteristics and methods of measurement (EN 302 064-1 V1.1.2:2004)

**HRN EN 302 537-1 V1.1.2:2009**

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Sustavi službe prijenosa medicinskih podataka ultra male snage u frekvencijskom području 401 MHz do 402 MHz i 405 MHz do 406 MHz – 1. dio: Tehničke karakteristike i metode mjerena  
(EN 302 537-1 V1.1.2:2007)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz – Part 1: Technical characteristics and test methods  
(EN 302 537-1 V1.1.2:2007)

**HRN EN 301 091-1 V1.3.3:2009**

Elektromagnetska kompatibilnost i radiospektar (ERM) – Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (RTTT) – Radarski uređaji koji rade u području od 76 GHz do 77 GHz – 1. dio: Tehničke značajke i ispitne metode za zemaljske radarske uređaje koji rade u području od 76 GHz do 77 GHz (EN 301 091-1 V1.3.3:2006)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices – Road Transport and Traffic Telematics (RTTT) – Radar equipment operating in the 76 GHz to 77 GHz range – Part 1: Technical characteristics and test methods for radar equipment operating in the 76 GHz to 77 GHz range (EN 301 091-1 V1.3.3:2006)

**HRN ETS 300 401 V1:2011**

Digitalna audio radiodifuzija (DAB) prema pokretnim, prijenosnim i nepokretnim prijamnicima (ETS 300 401 ed.1:1995)

Digital Audio Broadcasting (DAB) – DAB to mobile, portable and fixed receivers  
(ETS 300 401 ed.1:1995)

**HRN ETS 300 401 V2:2011**

Radiodifuzijski sustavi – Digitalna audio radiodifuzija (DAB) prema pokretnim, prijenosnim i nepokretnim prijamnicima (ETS 300 401 ed.2:1997)

Radio broadcasting systems – Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers (ETS 300 401 ed.2:1997)

**HRN EN 300 401 V1.4.1:2009**

Radiodifuzijski sustavi – Digitalna audio radiodifuzija (DAB) prema pokretnim, prijenosnim i nepokretnim prijamnicima (EN 300 401 V1.4.1:2006)

Radio Broadcasting Systems – Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers (EN 300 401 V1.4.1:2006)

**HRN ETS 300 720 V1:2012**

Radijska oprema i sustavi (RES) – Tehničke značajke i metode mjerena za UHF brodske komunikacijske sustave i opremu (ETS 300 720 ed.1:1997)

Radio Equipment and Systems (RES) – Technical characteristics and methods of measurement for UHF on-board communications systems and equipment (ETS 300 720 ed.1:1997)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

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

Sljedeći hrvatski nacionalni dodatak objavljen na hrvatskome jeziku sada je dostupan i na engleskome jeziku:

**HRN EN 1991-1-3:2012/NA:2016 hr-en izv**

Eurokod 1: Djelovanja na konstrukcije – Dio 1-3: Opća djelovanja – Opterećenja snijegom – Nacionalni dodatak

Eurocode 1: Actions on structures – Part 1-3: General actions – Snow loads – National Annex

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

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

**Međunarodna normizacija  
ISO**

ISO 30400:2016-09  
Human resource management – Vocabulary

**01.040.19 Ispitivanje (Rječnici)**

**Europska normizacija  
CEN**

EN 16714-3:2016-08  
Non-destructive testing – Thermographic testing – Part 3: Terms and definitions

**01.040.23 Hidraulički i pneumatski sustavi i sastavni dijelovi za opću upotrebu (Rječnici)**

**Europska normizacija  
CEN**

EN 764-1+A1:2016-08  
Pressure equipment – Part 1: Vocabulary

**01.040.25 Proizvodna tehnika (Rječnici)**

**Europska normizacija  
CEN**

EN ISO/ASTM 52921:2016-09  
Standard terminology for additive manufacturing – Coordinate systems and test methodologies (ISO/ASTM 52921:2013)

**Međunarodna normizacija  
IEC**

IEC 61511-1 Corrigendum 1:2016-09  
Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements; Corrigendum 1

01.040.31 Elektronika (Rječnici)

## **Europska normizacija CEN**

EN ISO 14880-1:2016-08  
Optics and photonics – Microlens arrays – Part 1: Vocabulary and general properties (ISO 14880-1:2016)

01.040.35 Informacijska tehnologija. Uredski strojevi (Rječnici)

## Međunarodna normizacija ISO

ISO 19104:2016-10  
Geographic information – Terminology

IEC

IEC 61511-1 Corrigendum 1:2016-09  
Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements; Corrigendum 1

## **01.040.43 Cestovna vozila (Rječnici)**

## Međunarodna normizacija ISO

ISO 17987-3:2016-08  
Road vehicles – Local Interconnect Network (LIN) – Part 3: Protocol specification

01.070 Kodiranje bojama

## Međunarodna normizacija ISO

ISO 6009:2016-08  
Hypodermic needles for single use – Colour coding for identification

01.080.10 Simboli za javne obavijesti

## Međunarodna normizacija ISO

ISO 28564-2:2016-09  
Public information guidance systems – Part 2: Guidelines for the design and use of location signs and direction signs

01.080.20 Grafički simboli za upotrebu na posebnoj opremi

## Međunarodna normizacija ISO

ISO 3767-1:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 1: Common symbols

ISO 3767-2:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 2: Symbols for agricultural tractors and machinery

ISO 3767-3:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 3: Symbols for powered lawn and garden equipment

ISO 3767-4:2016-09

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 4: Symbols for forestry machinery

ISO 3767-5:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 5: Symbols for manual portable forestry machines

## **01.080.30 Grafički simboli za upotrebu u strojarskim i građevnim crtežima, shemama, planovima, zemljovidima i u odgovarajućoj tehničkoj dokumentaciji o proizvodima**

# Međunarodna normizacija ISO

ISO 3767-1:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 1: Common symbols

ISO 3767-4:2016-09

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 4: Symbols for forestry machinery

ISO 3767-5:2016-09

## Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 5: Symbols for manual portable forestry machines

ISO 1219-3:2016-09

Fluid power systems and components – Graphical symbols and circuit diagrams – Part 3: Symbol modules and connected symbols in circuit diagrams

01.100.20 Crteži u strojarstvu

# Međunarodna normizacija ISO

ISO 15787:2016-09

Technical product documentation – Heat-treated ferrous parts – Presentation and indications

**01.100.40                    Oprema za crtanje**

**Međunarodna normizacija  
ISO**

ISO 9177-1:2016-10

Mechanical pencils for technical drawings – Part 1: Classification, dimensions, performance requirements and testing

**01.110                    Tehnička dokumentacija o proizvodu**

**Međunarodna normizacija  
ISO**

ISO 15787:2016-09

Technical product documentation – Heat-treated ferrous parts – Presentation and indications

**01.120                    Normizacija. Opća pravila**

**Europska normizacija  
CEN**

CEN-CENELEC Guide 34:2016-08

CEN and CENELEC representation in official meetings

**Međunarodna normizacija  
ISO**

ISO/IEC Directives Part 1 Supplement JTC 1:2016

Procedures specific to JTC 1

**03.080.30                Usluge za potrošače**

**Međunarodna normizacija  
ISO**

ISO 24521:2016-09

Activities relating to drinking water and wastewater services – Guidelines for the management of basic on-site domestic wastewater services

ISO 17679:2016-10

Tourism and related services – Wellness spa – Service requirements

**03.100.02                Upravljanje i etika**

**Međunarodna normizacija  
ISO**

ISO 30408:2016-09

Human resource management – Guidelines on human governance

### **03.100.30                  Upravljanje ljudskim resursima**

#### **Međunarodna normizacija ISO**

ISO 30405:2016-09  
Human resource management – Guidelines on recruitment

ISO 30408:2016-09  
Human resource management – Guidelines on human governance

ISO 30409:2016-09  
Human resource management – Workforce planning

### **03.120.01                  Kvaliteta općenito**

#### **Međunarodna normizacija IEC**

IEC 61078:2016-08  
Reliability block diagrams

### **03.120.10                  Upravljanje kvalitetom i osiguravanje kvalitete**

#### **Europska normizacija CEN**

EN 16602-20-07:2016-08  
Space product assurance – Quality and safety assurance for space test centres

### **03.120.30                  Primjena statističkih metoda**

#### **Međunarodna normizacija ISO**

ISO 22514-4:2016-08  
Statistical methods in process management – Capability and performance – Part 4: Process capability estimates and performance measures

#### **IEC**

IEC 61703:2016-08  
Mathematical expressions for reliability, availability, maintainability and maintenance support terms

### **03.200.01                  Slobodno vrijeme i turizam općenito**

#### **Međunarodna normizacija ISO**

ISO 17679:2016-10  
Tourism and related services – Wellness spa – Service requirements

**03.220.01                  Prijevoz općenito**

**Međunarodna normizacija  
ISO**

ISO 18495-1:2016-09

Intelligent transport systems – Commercial freight – Automotive visibility in the distribution supply chain – Part 1: Architecture and data definitions

**03.220.20                  Cestovni prijevoz**

**Međunarodna normizacija  
ISO**

ISO 19079:2016-10

Intelligent transport systems – Communications access for land mobiles (CALM) – 6LoWPAN networking

**03.220.30                  Željeznički prijevoz**

**Europska normizacija  
CENELEC**

EN 62625-2:2016-09

Electronic railway equipment – On board driving data recording system – Part 2: Conformity testing (IEC 62625-2:2016)

**03.240                  Poštanske usluge**

**Europska normizacija  
CEN**

CWA 17056:2016-09

Safepost – Postal supply chain security – Standardization needs

**07.080                  Biologija. Botanika. Zoologija**

**Međunarodna normizacija  
ISO**

ISO 18457:2016-09

Biomimetics – Biomimetic materials, structures and components

**07.100.20                  Mikrobiologija vode**

**Europska normizacija  
CEN**

EN ISO 14189:2016-08

Water quality – Enumeration of Clostridium perfringens – Method using membrane filtration (ISO 14189:2013)

**07.120 Nanotehnologije**

**Međunarodna normizacija  
ISO**

ISO/TR 16196:2016-10

Nanotechnologies – Compilation and description of sample preparation and dosing methods for engineered and manufactured nanomaterials

**11.040.10 Anestezija, respiracijska i reanimacijska oprema**

**Europska normizacija  
CEN**

EN ISO 5361:2016-09

Anaesthetic and respiratory equipment – Tracheal tubes and connectors (ISO 5361:2016)

EN ISO 5364:2016-09

Anaesthetic and respiratory equipment – Oropharyngeal airways (ISO 5364:2016)

**Međunarodna normizacija  
ISO**

ISO 5361:2016-09

Anaesthetic and respiratory equipment – Tracheal tubes and connectors

ISO 5364:2016-09

Anaesthetic and respiratory equipment – Oropharyngeal airways

ISO 5366:2016-10

Anaesthetic and respiratory equipment – Tracheostomy tubes and connectors

**11.040.20 Transfuzijska, infuzijska i injekcijska oprema**

**Međunarodna normizacija  
ISO**

ISO 8536-13:2016-10

Infusion equipment for medical use – Part 13: Graduated flow regulators for single use with fluid contact

**11.040.25 Šprice, Igle, Kateteri**

**Europska normizacija  
CEN**

EN ISO 6009:2016-08

Hypodermic needles for single use – Colour coding for identification (ISO 6009:2016)

EN ISO 7864:2016-08

Sterile hypodermic needles for single use – Requirements and test methods (ISO 7864:2016)

EN ISO 9626:2016-08

Stainless steel needle tubing for the manufacture of medical devices – Requirements and test methods (ISO 9626:2016)

EN ISO 80369-3:2016-08

Small-bore connectors for liquids and gases in healthcare applications – Part 3: Connectors for enteral applications (ISO 80369-3:2016)

**Međunarodna normizacija**

**ISO**

ISO 6009:2016-08

Hypodermic needles for single use – Colour coding for identification

ISO 7864:2016-08

Sterile hypodermic needles for single use – Requirements and test methods

ISO 9626:2016-08

Stainless steel needle tubing for the manufacture of medical devices – Requirements and test methods

ISO 18746:2016-08

Traditional Chinese medicine – Sterile intradermal acupuncture needles for single use

**11.040.40**

**Implantati za kirurgiju, protetiku i ortotiku**

**Međunarodna normizacija**

**ISO**

ISO 7207-2 AMD 1:2016-08

Implants for surgery – Components for partial and total knee joint prostheses – Part 2: Articulating surfaces made of metal, ceramic and plastics materials; Amendment 1

ISO 15674:2016-08

Cardiovascular implants and artificial organs – Hard-shell cardiotomy/venous reservoir systems (with/without filter) and soft venous reservoir bags

ISO 15675:2016-08

Cardiovascular implants and artificial organs – Cardiopulmonary bypass systems – Arterial blood line filters

ISO 15676:2016-08

Cardiovascular implants and artificial organs – Requirements for single-use tubing packs for cardiopulmonary bypass and extracorporeal membrane oxygenation (ECMO)

ISO 18241:2016-08

Cardiovascular implants and extracorporeal systems – Cardiopulmonary bypass systems – Venous bubble traps

ISO 18242 2016-09

Cardiovascular implants and extracorporeal systems – Centrifugal blood pumps

ISO/TR 19024:2016-09

Evaluation of CPB devices relative to their capabilities of reducing the transmission of gaseous microemboli (GME) to a patient during cardiopulmonary bypass

ISO 7206-2 AMD 1:2016-09

Implants for surgery – Partial and total hip joint prostheses – Part 2: Articulating surfaces made of metallic, ceramic and plastics materials; Amendment 1

ISO 14242-2:2016-09

Implants for surgery – Wear of total hip-joint prostheses – Part 2: Methods of measurement

ISO 14243-2:2016-09

Implants for surgery – Wear of total knee-joint prostheses – Part 2: Methods of measurement

**11.040.55 Dijagnostička oprema**

**Međunarodna normizacija**

**IEC**

IEC 60601-2-40:2016-08

Medical electrical equipment – Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment

**11.040.70 Oftalmoška oprema**

**Međunarodna normizacija**

**ISO**

ISO 10938:2016-10

Ophthalmic optics – Chart displays for visual acuity measurement – Printed, projected and electronic

ISO 11381:2016-10

Ophthalmic optics – Spectacle frames – Screw threads

**11.060.01 Stomatologija općenito**

**Europska normizacija**

**CEN**

EN ISO 13078-2:2016-08

Dentistry – Dental furnace – Part 2: Test method for evaluation of furnace programme via firing glaze (ISO 13078-2:2016)

**11.060.10 Stomatološki materijali**

**Europska normizacija**

**CEN**

EN ISO 17254:2016-08

Dentistry – Coiled springs for use in orthodontics (ISO 17254:2016)

**11.060.25 Stomatološki instrumenti**

**Međunarodna normizacija**

**ISO**

ISO 17509:2016-10

Dentistry – Torque transmitter for handpieces

**11.140                    Bolnička oprema**

**Međunarodna normizacija  
IEC**

IEC 60601-2-46:2016-08

Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables

**13.020.20                Ekogospodarstvo**

**Međunarodna normizacija  
ISO**

IWA 24:2016-09

Non-sewered sanitation systems – General safety and performance requirements for design and testing

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

**Europska normizacija  
CEN**

EN 16789:2016-08

Ambient air – Biomonitoring with Higher Plants – Method of the standardized tobacco exposure

**13.020.55                Proizvodi na biološkoj osnovi**

**Europska normizacija  
CEN**

CEN/TR 16957:2016-09

Bio-based products – Guidelines for Life Cycle Inventory (LCI) for the End-of-life phase

**13.020.60                Životni ciklusi proizvoda**

**Europska normizacija  
CEN**

CEN/TR 16957:2016-09

Bio-based products – Guidelines for Life Cycle Inventory (LCI) for the End-of-life phase

**Međunarodna normizacija  
ISO**

ISO/TR 14073:2016-09

Environmental management – Water footprint – Illustrative examples on how to apply ISO 14046

13.040.20 Atmosfera okoliša

## **Europska normizacija CEN**

EN 13129:2016-08

## Railway applications – Air conditioning for main line rolling stock – Comfort parameters and type tests

EN 16789:2016-08

## Ambient air – Biomonitoring with Higher Plants – Method of the standardized tobacco exposure

**13.040.35 Čiste sobe i srodnji nadzirani okoliš**

## **Europska normizacija CEN**

EN ISO 14644-14:2016-10

## Cleanrooms and associated controlled environments – Part 14: Assessment of suitability for use of equipment by airborne particle concentration (ISO 14644-14:2016)

# Međunarodna normizacija ISO

ISO 14644-14:2016-09

## Cleanrooms and associated controlled environments – Part 14: Assessment of suitability for use of equipment by airborne particle concentration

13.040.40 Emisije iz stacionarnih izvora

## **Europska normizacija CEN**

EN 50632-3-9:2016-09

## Electric motor-operated tools – Dust measurement procedure – Part 3-9: Particular requirements for transportable mitre saws

13.060.30 Kanalizacijeske vode

## **Europska normizacija CEN**

EN 12566-1:2016-08

## **Small wastewater treatment systems for up to 50 PT – Part 1: Prefabricated septic tanks**

EN 12566-3:2016-08

## **Small wastewater treatment systems for up to 50 PT – Part 3: Packaged and/or site assembled domestic wastewater treatment plants**

EN 12566-4:2016-08

EN 12566-1:2010-08  
Small wastewater treatment systems for up to 50 PT – Part 4: Septic tanks assembled in situ from prefabricated kits

EN 12566-6:2016-08

Small wastewater treatment systems for up to 50 PT – Part 6: Prefabricated treatment units for septic tank effluent

EN 12566-7:2016-08

Small wastewater treatment systems for up to 50 PT – Part 7: Prefabricated tertiary treatment units

**Međunarodna normizacija  
ISO**

ISO 24521:2016-09

Activities relating to drinking water and wastewater services – Guidelines for the management of basic on-site domestic wastewater services

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

**Europska normizacija  
CEN**

EN ISO 5667-14:2016-08

Water quality – Sampling – Part 14: Guidance on quality assurance and quality control of environmental water sampling and handling (ISO 5667-14:2014)

**13.060.50 Ispitivanje voda na kemijske tvari**

**Europska normizacija  
CEN**

EN ISO 17294-2:2016-08

Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes (ISO 17294-2:2016)

**13.100 Radna sigurnost. Industrijska higijena**

**Međunarodna normizacija  
ISO**

ISO 13577-1:2016-09

Industrial furnaces and associated processing equipment – Safety – Part 1: General requirements

ISO 13577-3:2016-09

Industrial furnaces and associated processing equipment – Safety – Part 3: Generation and use of protective and reactive atmosphere gases

**13.110 Sigurnost strojeva**

**Međunarodna normizacija  
ISO**

ISO/TR 22100-3:2016-10

Safety of machinery – Relationship with ISO 12100 – Part 3: Implementation of ergonomic principles in safety standards

## **13.140 Utjecaj buke na ljudе**

### **Europska normizacija**

**CEN**

EN ISO 389-7/A1:2016-08

Acoustics – Reference zero for the calibration of audiometric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions – Amendment 1: Reference threshold of hearing at 20 Hz and 18000 Hz under free-field listening conditions and at 20 Hz under diffuse-field listening conditions (ISO 389-7:2005/Amd 1:2016)

## **13.180 Ergonomija**

### **Europska normizacija**

**CEN**

EN ISO 6385:2016-10

Ergonomics principles in the design of work systems (ISO 6385:2016)

### **Međunarodna normizacija**

**ISO**

ISO 6385:2016-09

Ergonomics principles in the design of work systems

ISO/TR 22100-3:2016-10

Safety of machinery – Relationship with ISO 12100 – Part 3: Implementation of ergonomic principles in safety standards

## **13.220.10 Vatrogastvo**

### **Europska normizacija**

**CEN**

EN 13204:2016-09

Double acting hydraulic rescue tools for fire and rescue service use – Safety and performance requirements

### **Međunarodna normizacija**

**ISO**

ISO 14520-2:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 2: CF3I extinguishant

ISO 14520-5:2016-09

Gaseous fire-extinguishing systems – Physical properties and system design – Part 5: FK-5-1-12 extinguishant

ISO 14520-6:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 6: HCFC Blend A extinguishant

ISO 14520-8:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 8: HFC 125 extinguishant

ISO 14520-9:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 9: HFC 227ea extinguishant

ISO 14520-10:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 10: HFC 23 extinguishant

ISO 14520-11:2016-10

Gaseous fire-extinguishing systems – Physical properties and system design – Part 11: HFC 236fa extinguishant

#### **13.220.40**

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

##### **Europska normizacija**

**CEN**

CEN/TR 16829:2016-08

Fire and explosion prevention and protection for bucket elevators

EN 50582:2016-08

Procedure to assess the circuit integrity of optical fibres in a cable under resistance to fire testing

EN 60332-1-2/A11:2016-08

Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame

##### **Međunarodna normizacija**

**IEC**

IEC 60695-1-21:2016-09

Fire hazard testing – Part 1-21: Guidance for assessing the fire hazard of electrotechnical products – Ignitability – Summary and relevance of test methods

IEC 60695-10-3:2016-09

Fire hazard testing – Part 10-3: Abnormal heat – Mould stress relief distortion test

#### **13.230**

#### **Zaštita od eksplozija**

##### **Europska normizacija**

**CEN**

CEN/TR 16829:2016-08

Fire and explosion prevention and protection for bucket elevators

#### **13.260**

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

##### **Europska normizacija**

**CENELEC**

EN 60990:2016-09

Methods of measurement of touch current and protective conductor current (IEC 60990:2016)

**13.280                    Zaštita od zračenja**

**Međunarodna normizacija**  
**ISO**

ISO 16645:2016-10

Radiological protection – Medical electron accelerators – Requirements and recommendations for shielding design and evaluation

**13.300                    Zaštita od opasnih tvari**

**Europska normizacija**  
**CEN**

EN 16657:2016-06

Tanks for the transport of dangerous goods – Transport tank equipment for overfill prevention devices for static tanks

**13.320                    Alarmni sustavi i sustavi uzbunjivanja**

**Europska normizacija**  
**CENELEC**

EN 50270/AC:2016-08

Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

**13.340.10                Zaštitna odjeća**

**Europska normizacija**  
**CENELEC**

EN 61340-4-9:2016-09

Electrostatics – Part 4-9: Standard test methods for specific applications – Garments (IEC 61340-4-9:2016)

**17.040.40                Geometrijska specifikacija proizvoda (GPS)**

**Europska normizacija**  
**CEN**

EN ISO 14405-1:2016-08

Geometrical product specifications (GPS) – Dimensional tolerancing – Part 1: Linear sizes (ISO 14405-1:2016)

EN ISO 1:2016-09

Geometrical product specifications (GPS) – Standard reference temperature for the specification of geometrical and dimensional properties (ISO 1:2016)

## Međunarodna normizacija ISO

ISO 1:2016-09

Geometrical product specifications (GPS) – Standard reference temperature for the specification of geometrical and dimensional properties

ISO 14405-1:2016-08

Geometrical product specifications (GPS) – Dimensional tolerancing – Part 1: Linear sizes

ISO 10360-12:2016-10

Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 12: Articulated arm coordinate measurement machines (CMM)

ISO 18391:2016-10

ISO 10653-1:2018-10 Geometrical product specifications (GPS) – Population specification

17.120.20 Protok u otvorenim kanalima

## Međunarodna normizacija

ISO

ISO 6420:2016-10

Hydrometry – Position fixing equipment for hydrometric boats

17-140-50 Elektroakustika

Europska normizacija

— 1 —

EN 61094-3:2016-09  
Electroacoustics – Measurement microphones – Part 3: Primary method for free-field calibration of

EN 61094-5:2016-09  
Electroacoustics – Measurement microphones – Part 5: Methods for pressure calibration of working

47-426 Mammals of the Northern Rockies

Međunarodna normizacija

100-10000-00-00/0-00

ISO 16063-32:2016-09  
Methods for the calibration of vibration and shock transducers – Part 32: Resonance testing – Testing the frequency and the phase response of accelerometers by means of shock excitation

ISO 19015-0010-00

ISO 10815:2016-09  
Mechanical vibration – Measurement of vibration generated internally in railway tunnels by the passage of trains

## **17.180.20 Boje i mjerenje svjetlosti**

### **Europska normizacija**

**CEN**

EN ISO 11664-6:2016-08

Colorimetry – Part 6: CIEDE2000 Colour-difference formula (ISO/CIE 11664-6:2014)

EN 61966-2-4/A1:2016-09

Multimedia systems and equipment – Colour measurement and management – Part 2-4: Colour management – Extended-gamut YCC colour space for video applications – xvYCC (IEC 61966-2-4:2006/A1:2016)

EN ISO 11664-5:2016-09

Colorimetry – Part 5: CIE 1976 L\*u\*v\* Colour space and u', v' uniform chromaticity scale diagram (ISO/CIE 11664-5:2016)

### **Međunarodna normizacija**

**ISO**

ISO/CIE 11664-5:2016-09

Colorimetry – Part 5: CIE 1976 L\*u\*v\* colour space and u', v' uniform chromaticity scale diagram

## **17.200.20 Mjerni instrumenti za mjerenje temperature**

### **Europska normizacija**

**CENELEC**

EN 61515:2016-08

Mineral insulated metal-sheathed thermocouple cables and thermocouples (IEC 61515:2016)

EN 61340-4-9:2016-09

Electrostatics – Part 4-9: Standard test methods for specific applications – Garments (IEC 61340-4-9:2016)

## **19.040 Ispitivanje utjecaja okoliša**

### **Europska normizacija**

**CENELEC**

EN 60068-3-13:2016-09

Environmental testing – Part 3-13: Supporting documentation and guidance on Test T – Soldering (IEC 60068-3-13:2016)

## **19.100 Nerazorna ispitivanja**

### **Europska normizacija**

**CEN**

EN 16714-1:2016-08

Non-destructive testing – Thermographic testing – Part 1: General principles

EN 16714-2:2016-08

Non-destructive testing – Thermographic testing – Part 2: Equipment

**21.040.10 Metrički vijčani navozi**

**Međunarodna normizacija**

**ISO**

ISO 2901:2016-09

ISO metric trapezoidal screw threads – Basic and design profiles

ISO 2902:2016-09

ISO metric trapezoidal screw threads – General plan

ISO 2903:2016-09

ISO metric trapezoidal screw threads – Tolerances

**21.100.10 Klizni ležajevi**

**Međunarodna normizacija**

**ISO**

ISO 12131-2:2016-09

Plain bearings – Hydrodynamic plain thrust pad bearings under steady-state conditions – Part 2: Functions for the calculation of thrust pad bearings

ISO 12167-1:2016-09

Plain bearings – Hydrostatic plain journal bearings with drainage grooves under steady-state conditions – Part 1: Calculation of oil-lubricated plain journal bearings with drainage grooves

ISO 20054:2016-09

Plain bearings – Bearings containing dispersed solid lubricants

**21.200 Zupčanici**

**Međunarodna normizacija**

**ISO**

ISO 6336-5:2016-08

Calculation of load capacity of spur and helical gears – Part 5: Strength and quality of materials

**23.020.10 Nepomični kontejneri i spremnici**

**Europska normizacija**

**CEN**

EN 16657:2016-06

Tanks for the transport of dangerous goods – Transport tank equipment for overfill prevention devices for static tanks

**23.020.20 Posude i kontejneri ugrađeni na vozila**

## **Europska normizacija CEN**

EN 16657:2016-06

## Tanks for the transport of dangerous goods – Transport tank equipment for overfill prevention devices for static tanks

**23.020.30 Tlačne posude, cilindrični plinski spremnici**

## **Europska normizacija CEN**

# EN 764-1+A1:2016-08

## Pressure equipment – Part 1: Vocabulary

EN 13445-3/A2:2016-08  
Unfired pressure vessels – Part 3: Design

# EN 13445-4/A1:2016-08

## Unfired pressure vessels – Part 4: Fabrication

23.020.35 Plinski spremnici

## Europska normizacija CEN

EN ISO 14456:2016-09  
Gas cylinders – Gas properties and associated classification (ETSC) codes (ISO 14456:2015)

23.020.40 Kriogeničke posude

## Međunarodna normizacija ISO

ISO 21028-1:2016-09  
Cryogenic vessels – Toughness requirements for materials at cryogenic temperature – Part 1:  
Temperatures below -80 degrees C

**23.040,01 Cjevovodne sastavni dijelovi i cjevovodi općenito**

## **Europska normizacija CFN**

# EN 13480-2/A2:2016-08

## Metallic industrial piping – Part 2: Materials

## **23.040.70 Crijeva i crijevni sklopovi**

### **Europska normizacija**

**CEN**

EN 1765:2016-08

Rubber hose assemblies for oil suction and discharge services – Specification for the assemblies

EN 16643:2016-08

Rubber and plastics hoses and hose assemblies – Non-bonded fluoroplastic lined (e. g. PTFE) hoses and hose assemblies for liquid and gaseous chemicals – Specification

EN 14423+A1:2016-09

Clamp type coupling assemblies for use with steam hoses rated for pressures up to 18 bar

## **23.100.01 Sustavi za hidraulički i pneumatski prijenos energije općenito**

### **Međunarodna normizacija**

**ISO**

ISO 1219-3:2016-09

Fluid power systems and components – Graphical symbols and circuit diagrams – Part 3: Symbol modules and connected symbols in circuit diagrams

## **23.100.50 Upravljački sastavni dijelovi**

### **Međunarodna normizacija**

**ISO**

ISO 5781:2016-08

Hydraulic fluid power – Pressure-reducing valves, sequence valves, unloading valves, throttle valves and check valves – Mounting surfaces

## **23.100.60 Filtri, brtve i onečišćenje fluida**

### **Međunarodna normizacija**

**ISO**

ISO 12829:2016-08

Hydraulic spin-on filters with finite lives – Method for verifying the rated fatigue life and the rated static burst pressure of the pressure-containing envelope

## **25.035 Aditivna proizvodnja**

### **Europska normizacija**

**CEN**

EN ISO 17296-2:2016-09

Additive manufacturing – General principles – Part 2: Overview of process categories and feedstock (ISO 17296-2:2015)

EN ISO 17296-3:2016-09

Additive manufacturing – General principles – Part 3: Main characteristics and corresponding test methods (ISO 17296-3:2014)

EN ISO 17296-4:2016-09

Additive manufacturing – General principles – Part 4: Overview of data processing (ISO 17296-4:2014)

EN ISO/ASTM 52921:2016-09

Standard terminology for additive manufacturing – Coordinate systems and test methodologies (ISO/ASTM 52921:2013)

#### **25.040.30 Industrijski roboti. Manipulatori**

**Međunarodna normizacija**

**ISO**

ISO 18646-1:2016-09

Robotics – Performance criteria and related test methods for service robots – Part 1: Locomotion for wheeled robots

#### **25.040.40 Mjerenje i upravljanje u industrijskim procesima**

**Međunarodna normizacija**

**ISO**

ISO 8000-100:2016-10

Data quality – Part 100: Master data: Exchange of characteristic data: Overview

ISO 8000-120:2016-10

Data quality – Part 120: Master data: Exchange of characteristic data: Provenance

ISO 8000-130:2016-10

Data quality – Part 130: Master data: Exchange of characteristic data: Accuracy

ISO 8000-140:2016-10

Data quality – Part 140: Master data: Exchange of characteristic data: Completeness

**IEC**

IEC 61511-1 Corrigendum 1:2016-09

Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements; Corrigendum 1

#### **25.060.01 Sustavi alatnih strojeva općenito**

**Međunarodna normizacija**

**ISO**

ISO 10897:2016-09

Collets for tool holders with taper ratio 1:10 – Collets, holders, nuts

**25.080.20                    Strojevi za bušenje i glodanje**

**Međunarodna normizacija**  
**ISO**

ISO 3070-2:2016-08

Machine tools – Test conditions for testing the accuracy of boring and milling machines with horizontal spindle – Part 2: Machines with movable column along the X-axis (floor type)

**25.080.30                    Strojevi za provlačenje**

**Međunarodna normizacija**  
**ISO**

ISO 10898:2016-09

Spot drills

**25.100.30                    Svrđla, upuštači, razvrtači**

**Međunarodna normizacija**  
**ISO**

ISO 866:2016-08

Centre drills for centre holes without protecting chamfers – Type A

**25.100.50                    Ureznici i kalupi za navoje**

**Međunarodna normizacija**  
**ISO**

ISO 8051:2016-09

Long shank taps with nominal diameters from M3 to M10 – Full-diameter shank taps with recess

**25.140.20                    Električni alati**

**Europska normizacija**  
**CENELEC**

EN 62841-3-10/AC:2016-07

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-10: Particular requirements for transportable cut-off machines (IEC 62841-3-10:2015/COR1:2016)

EN 62841-3-9/AC:2016-09

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws (IEC 62841-3-9:2014/COR2:2016)

**Međunarodna normizacija**  
**IEC**

IEC 62841-3-9 Corrigendum 2:2016-08

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 2

## **25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito**

### **Europska normizacija CEN**

EN ISO 15618-1:2016-09

Qualification testing of welders for underwater welding – Part 1: Hyperbaric wet welding (ISO 15618-1:2016)

### **Međunarodna normizacija ISO**

ISO 15618-1:2016-09

Qualification testing of welders for underwater welding – Part 1: Hyperbaric wet welding

## **25.160.20 Dodatni i potrošni materijali za zavarivanje**

### **Međunarodna normizacija ISO**

EN ISO 5182:2016-08

Resistance welding – Materials for electrodes and ancillary equipment (ISO 5182:2016)

### **Međunarodna normizacija ISO**

ISO 20168:2016-09

Resistance welding – Locking tapers for electrode holders and electrode caps

## **25.160.30 Oprema za zavarivanje**

### **Europska normizacija CENELEC**

EN 62822-2:2016-09

Electric welding equipment – Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) – Part 2: Arc welding equipment (IEC 62822-2:2016)

## **25.160.50 Tvrdo i meko lemljenje**

### **Europska normizacija CEN**

EN ISO 3677:2016-10

Filler metal for soldering and brazing – Designation (ISO 3677:2016)

EN ISO 17672:2016-09

Brazing – Filler metals (ISO 17672:2016)

### **Međunarodna normizacija ISO**

ISO 17672:2016-09

Brazing – Filler metals

ISO 3677:2016-09  
Filler metal for soldering and brazing – Designation

**25.180.01                   Industrijske peći općenito**

**Međunarodna normizacija**  
**ISO**

ISO 13577-1:2016-09  
Industrial furnaces and associated processing equipment – Safety – Part 1: General requirements

ISO 13577-3:2016-09  
Industrial furnaces and associated processing equipment – Safety – Part 3: Generation and use of protective and reactive atmosphere gases

**25.200                   Toplinska obradba**

**Međunarodna normizacija**  
**ISO**

ISO 15787:2016-09  
Technical product documentation – Heat-treated ferrous parts – Presentation and indications

**25.220.01                   Površinska obrada i prevlačenje općenito**

**Međunarodna normizacija**  
**ISO**

ISO 19207:2016-09  
Thermal spraying – Classification method of adhesive strength by indentation

**25.220.40                   Metalne prevlake**

**Međunarodna normizacija**  
**ISO**

ISO 19477:2016-09  
Metallic and other inorganic coatings – Measurement of Young's modulus of thermal barrier coatings by beam bending

**27.010                   Tehnika prijenosa energije i topline općenito**

**Europska normizacija**  
**CENELEC**

EN 62325-451-2/AC:2016-08  
Framework for energy market communications – Part 451-2: Scheduling business process and contextual model for CIM European market (IEC 62325-451-2:2014/COR1:2016)

EN 62325-351:2016-09  
Framework for energy market communications – Part 351: CIM European market model exchange profile (IEC 62325-351:2016)

EN 62325-451-6:2016-09

Framework for energy market communications – Part 451-6: Publication of information on market, contextual and assembly models for European style market (IEC 62325-451-6:2016)

**Međunarodna normizacija**

**IEC**

IEC 62325-451-2 Corrigendum 1:2016-08

Framework for energy market communications – Part 451-2: Scheduling business process and contextual models for CIM European market; Corrigendum 1

**27.015 Energetska učinkovitost. Očuvanje energije općenito**

**Europska normizacija**

**CEN**

EN 16825:2016-08

Refrigerated storage cabinets and counters for professional use – Classification, requirements and test conditions

**27.070 Gorivi članci**

**Međunarodna normizacija**

**IEC**

IEC 62282-6-200:2016-09

Fuel cell technologies – Part 6-200: Micro fuel cell power systems – Performance test methods

**27.120.20 Nuklearne elektrane. Sigurnost**

**Europska normizacija**

**CENELEC**

EN 60965:2016-09

Nuclear power plants – Control rooms – Supplementary control room for reactor shutdown without access to the main control room (IEC 60965:2016)

EN 62808:2016-09

Nuclear power plants – Instrumentation and control systems important to safety – Design and qualification of isolation devices (IEC 62808:2015)

**Međunarodna normizacija**

**IEC**

IEC 62855:2016-08

Nuclear power plants – Electrical power systems – Electrical power systems analysis

IEC 62671 Corrigendum 1:2016-09

Nuclear Power Plants – Instrumentation and control important to safety – Selection and use of industrial digital devices of limited functionality; Corrigendum 1

**27.120.30                    Fisijski materijali i tehnologija nuklearnog goriva**

**Međunarodna normizacija  
IEC**

ISO 12183:2016-08  
Nuclear fuel technology – Controlled-potential coulometric assay of plutonium

**27.160                    Solarna energetika**

**Europska normizacija  
CENELEC**

EN 60904-3:2016-08  
Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data (IEC 60904-3:2016)

**Međunarodna normizacija  
ISO**

ISO 22975-1:2016-10  
Solar energy – Collector components and materials – Part 1: Evacuated tubes – Durability and performance

ISO 22975-2:2016-10  
Solar energy – Collector components and materials – Part 2: Heat-pipes for solar thermal application – Durability and performance

**IEC**

IEC 61730-1:2016-08  
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction

IEC 61730-2:2016-08  
Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing

IEC 61853-2:2016-09  
Photovoltaic (PV) module performance testing and energy rating – Part 2: Spectral responsivity, incidence angle and module operating temperature measurements

IEC 62108:2016-09  
Concentrator photovoltaic (CPV) modules and assemblies – Design qualification and type approval

IEC 62548:2016-09  
Photovoltaic (PV) arrays – Design requirements

IEC 62788-1-4:2016-09  
Measurement procedures for materials used in photovoltaic modules – Part 1-4: Encapsulants – Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength

29.020 Elektrotehnika općenito

## Međunarodna normizacija IEC

# IEC 61078:2016-08

## Reliability block diagrams

IEC 61703:2016-08 Mathematical expressions for reliability, availability, maintainability and maintenance support terms

IEC 60695-1-21:2016-09  
Fire hazard testing – Part 1-21: Guidance for assessing the fire hazard of electrotechnical products –  
Ignitability – Summary and relevance of test methods

IEC 60695-10-3:2016-09  
Fire hazard testing – Part 10-3: Abnormal heat – Mould stress relief distortion test

29.035.01 Izolacijski materijali općenito

## Međunarodna normizacija IEC

IEC/TR 60216-7-2:2016-08  
Electrical insulating materials – Thermal endurance properties – Part 7-2: Results of the round robin tests to validate procedures of IEC TS 60216-7-1 by non-isothermal kinetic analysis of thermogravimetric data

29.035.20 Plastični i qumeni izolacijski materijali

## **Europska normizacija CENELEC**

EN 50290-2-35: 2016-08  
Communication cables – Part 2-35: Common design rules and construction – Polyamide sheathing compound

EN 50290-2-36:2016-08  
Communication cables – Part 2-36: Common design rules and construction – Crosslinked Silicone rubber insulation compound

EN 50290-2-29:2016-09  
Communication cables – Part 2-29: Common design rules and construction – Crosslinked polyethylene insulation compounds: instrumentation, control and field bus cables

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## **Europska normizacija CENELEC**

EN 60332-1-2/A11:2016-08  
Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame

**29.080.10 Izolatori**

**Međunarodna normizacija**  
**IEC**

IEC 62772 2016-08

Composite hollow core station post insulators for substations with a.c. voltage greater than 1000 V and d.c. voltage greater than 1500 V – Definitions, test methods and acceptance criteria

**29.080.30 Izolacijski sustavi**

**Međunarodna normizacija**  
**IEC**

IEC/TR 63040:2016-09

Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm – Test results of research on influencing parameters

**29.100.10 Magnetski sastavni dijelovi**

**Međunarodna normizacija**  
**IEC**

IEC 62317-12:2016-09

Ferrite cores – Dimensions – Part 12: Ring cores

**29.120.40 Sklopke**

**Europska normizacija**  
**CENELEC**

EN 61058-1-2:2016-09

Switches for appliances – Part 1-2: Requirements for electronic switches (IEC 61058-1-2:2016)

**29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu**

**Europska normizacija**  
**CENELEC**

EN 62752:2016-08

In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD) (IEC 62752:2016)

**Međunarodna normizacija**  
**IEC**

IEC 60269-2 AMD 1:2016-08

Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K; Amendment 1

IEC 60269-2 Edition 5.1:2016-08

Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K

IEC 60269-4 AMD 2:2016-08

Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices; Amendment 2

IEC 60269-4 Edition 5.2:2016-08

Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

IEC 60364-4-44 AMD 1 Corrigendum 1:2016-09

Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances; Amendment 1; Corrigendum 1

IEC 60691 Corrigendum 1:2016-08

Thermal-links – Requirements and application guide; Corrigendum 1

IEC 60898-2:2016-08

Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 2: Circuit-breakers for AC and DC operation

IEC 62873-2:2016-09

Residual current operated circuit-breakers for household and similar use – Part 2: Residual current devices (RCDs) – Vocabulary

IEC 62873-3-1:2016-09

Residual current operated circuit-breakers for household and similar use – Part 3-1: Particular requirements for RCDs with screwless-type terminals for external copper conductors

IEC 62873-3-2:2016-09

Residual current operated circuit-breakers for household and similar use – Part 3-2: Particular requirements for RCDs with flat quick-connect terminations

IEC 62873-3-3:2016-09

Residual current operated circuit-breakers for household and similar use – Part 3-3: Specific requirements for RCDs with screw-type terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors

## **29.130.01                    Rasklopni i upravljački uređaji općenito**

### **Europska normizacija**

**CENELEC**

EN 62361-100:2016-09

Power systems management and associated information exchange – Interoperability in the long term – Part 100: CIM profiles to XML schema mapping (IEC 62361-100:2016)

## **29.140.10                    Kape i držači svjetiljki**

### **Europska normizacija**

**CENELEC**

EN 60061-1/A54:2016-09

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/A54:2016)

EN 60061-2/A51:2016-09

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/A51:2016)

EN 60061-3/A52:2016-09

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/A52:2016)

**29.140.99 Ostale norme koje se odnose na svjetiljke**

## Međunarodna normizacija

IEC

IEC/TR 63036:2016-08

Electrical interface specification for phase-cut dimmer in phase-cut dimmed lighting systems

**29.160.10 Sastavni dijelovi za rotacijske strojeve**

## Međunarodna normizacija

IEC

IEC/TR 63021:2016-09

## Rotating electrical machinery – Natural graphite brush for slip-ring in wound rotor-type induction motor – Application information

**29.160.30**

## **Europska normizacija**

CEN

EN 50598-2/A1:2016-08

Ecodesign for power drive systems, motor starters, power electronics & their driven applications –  
Part 2: Energy efficiency indicators for power drive systems and motor starters

## Međunarodna normizacija

IEC

IEC 61800-5-1 AMD 1:2016-08

Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy; Amendment 1

IEC 61800-5-1 Edition 2.1:2016-08

Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy

**29.220.20** **Kiseli sekundarni članci i baterije**

## Europska normizacija

CENELEC

EN 50604-1:2016-08

## Secondary lithium batteries for light EV (electric vehicle) applications – Part 1: General safety requirements and test methods

**Međunarodna normizacija**  
**IEC**

IEC 62660-3:2016-08

Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 3: Safety requirements

**29.240.01                    Mreže za prijenos i razdoblju električne energije općenito**

**Europska normizacija**  
**CENELEC**

EN 60061-1/A54:2016-09

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/A54:2016)

**29.260.20                    Električni uređaji za eksplozivnu atmosferu**

**Međunarodna normizacija**  
**IEC**

IEC 60079-7 Interpretation Sheet 1:2016-09

Explosive atmospheres – Part 7: Equipment protection by increased safety „e“; Interpretation sheet 1

IEC 60079-15 Interpretation Sheet 1:2016-09

Explosive atmospheres – Part 15: Equipment protection by type of protection „n“; Interpretation sheet 1

**29.280                        Oprema za električnu vuču**

**Europska normizacija**  
**CENELEC**

EN 50367/A1:2016-08

Railway applications – Current collection systems – Technical criteria for the interaction between pantograph and overhead line (to achieve free access)

EN 50633:2016-08

Railway applications – Fixed installations – Protection principles for AC and DC electric traction systems

**31.060.50                    Aluminijski elektrolitski kondenzatori**

**Europska normizacija**  
**CENELEC**

EN 60384-18:2016-09

Fixed capacitors for use in electronic equipment – Part 18: Sectional specification – Fixed aluminium electrolytic surface mount capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte (IEC 60384-18:2016)

**Međunarodna normizacija**  
**IEC**

IEC 60384-4:2016-08

Fixed capacitors for use in electronic equipment – Part 4: Sectional specification – Fixed aluminium electrolytic capacitors with solid (MnO<sub>2</sub>) and non-solid electrolyte

## **31.080.20                   Tiristori**

### **Međunarodna normizacija IEC**

IEC 61975 AMD 1:2016-09

High-voltage direct current (HVDC) installations – System tests; Amendment 1

IEC 61975 Edition 1.1:2016-09

High-voltage direct current (HVDC) installations – System tests

## **31.120                   Elektronički uređaji za prikazivanje**

### **Međunarodna normizacija IEC**

IEC 61747-30-4:2016-08

Liquid crystal display devices – Part 30-4: Measuring methods for liquid crystal display modules – Dynamic backlight units

IEC 62679-4-2:2016-08

Electronic paper displays – Part 4-2: Environmental test methods

IEC 62679-3-3:2016-09

Electronic paper displays – Part 3-3: Optical measuring methods for displays with integrated lighting units

## **31.140                   Piezoelektrične naprave**

### **Europska normizacija CENELEC**

EN 60758:2016-09

Synthetic quartz crystal – Specifications and guidelines for use (IEC 60758:2016)

## **31.160                   Električni filtri**

### **Međunarodna normizacija IEC**

IEC/TR 62001-3:2016-09

High-voltage direct current (HVDC) systems – Guidance to the specification and design evaluation of AC filters – Part 3: Modelling

## **31.180                   Tiskani krugovi i pločice**

### **Europska normizacija CENELEC**

EN 16602-70-12:2016-10

Space product assurance – Design rules for printed circuit boards

## **31.220.01                    Elektromehanički sastavni dijelovi općenito**

### **Međunarodna normizacija IEC**

IEC 62047-25:2016-08

Semiconductor devices – Micro-electromechanical devices – Part 25: Silicon based MEMS fabrication technology – Measurement method of pull-press and shearing strength of micro bonding area

## **31.220.10                    Utikačke i utičničke naprave. Konektori**

### **Međunarodna normizacija IEC**

IEC 60603-7-82:2016-08

Connectors for electronic equipment – Part 7-82: Detail specification for 8-way, 12 contacts, shielded, free and fixed connectors, for data transmission with frequencies up to 2000 MHz

IEC 61076-3-110:2016-08

Connectors for electronic equipment – Product requirements – Part 3-110: Detail specification for free and fixed connectors for data transmission with frequencies up to 3000 MHz

IEC 61076-3-120:2016-08

Connectors for electronic equipment – Product requirements – Part 3-120: Rectangular connectors – Detail specification for rewirable power connectors with snap locking for rated voltage of 250 V d.c. and rated current of 30 A

## **31.240                        Mehaničke konstrukcije za električku opremu**

### **Međunarodna normizacija IEC**

IEC 60191-6-13:2016-09

Mechanical standardization of semiconductor devices – Part 6-13: Design guideline of open-top-type sockets for Fine-pitch Ball Grid Array (FBGA) and Fine-pitch Land Grid Array (FLGA)

## **31.260                        Optoelektronika. Laserska oprema**

### **Europska normizacija CEN**

EN ISO 14880-1:2016-08

Optics and photonics – Microlens arrays – Part 1: Vocabulary and general properties (ISO 14880-1:2016)

### **Međunarodna normizacija IEC**

IEC 62679-4-2:2016-08

Electronic paper displays – Part 4-2: Environmental test methods

IEC 62679-3-3:2016-09

Electronic paper displays – Part 3-3: Optical measuring methods for displays with integrated lighting units

## **33.040.01 Telekomunikacijski sustavi općenito**

## Europska normizacija ETSI

ETSI SR 019020 V 1.1.2:2016-08

The framework for standardization of signatures – Standards for AdES digital signatures in mobile and distributed environments

ETSI TS 103296 V 1.1.1:2016-08

## Speech and Multimedia Transmission Quality (STQ) – Requirements for Emotion Detectors used for Telecommunication Measurement Applications – Detectors for written text and spoken speech

ETSI TR 103138 V 1.4.1:2016-09

Speech and multimedia Transmission Quality (STQ) – Speech samples and their use for QoS testing

ETSI GS OEU 003 V 1.1.1:2016-09

## Operational energy Efficiency for Users (OEU) – Energy Consumption Measurement of Operational Information Technology Servers

**33.040.35** Telefonske mreže

## **Europska normizacija ETSI**

ETSI TS 102232-1 V 3.12.1:2016-08

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 3.10.1:2016-08

## Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 2: Service-specific details for messaging services

ETSI TS 102232-5 V 3.6.1:2016-08

## Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 5: Service-specific details for IP Multimedia Services

ETSI TS 103280 V 1.2.1 : 2016-08

Lawful Interception (LI) – Dictionary for common parameters

ETSI TS 102232-3 V 3.4.1:2016-09

## Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 3: Service-specific details for internet access services

## **33.040.40 Mreže za prijenos podataka**

## **Europska normizacija ETSI**

ETSI GS NFV-IFA 010 V 2.2.1:2016-09

Network Functions Virtualisation (NFV) – Management and Orchestration – Functional requirements specification

ETSI GS NGP 001 V 1.1.1:2016-10

## Next Generation Protocol (NGP) – Scenario Definitions

**33.040.99 Ostala oprema za komunikacijske sisteme**

## **Europska normizacija ETSI**

ETSI TS 101553-1 V 2.1.1:2016-09

## Core Network and Interoperability Testing (INT) – Testing of the IBCF requirements – (3GPP Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 101553-2 V 4.1.1:2016-09

## Core Network and Interoperability Testing (INT) – Testing of the IBCF requirements – (3GPP Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103307 V 1.2.1:2016-10

CYBER – Security Aspects for LI and RD Interfaces

**33.050.01 Telekomunikacijska terminalna oprema općenito**

## **Europska normizacija CENELEC**

EN 300132-2 V 2.5.1:2016-10

## Environmental Engineering (EE) – Power supply interface at the input to telecommunications and datacom (ICT) equipment – Part 2: Operated by -48 V direct current (dc)

ETSI

ETSI TS 103443-1 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 1: General

ETSI TS 103443-2 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 2: NAT64

ETSI TS 103443-3 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 3: DS-Lite

ETSI TS 103443-4 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 4: MAP-E

ETSI TS 103443-5 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 5: 464XLAT

ETSI TS 103443-6 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology  
Engineering and Operational Aspects – Part 6: 6RD

### **33.060.20 Prijamna i odašiljačka oprema**

#### **Europska normizacija CENELEC**

EN 300086 V 2.1.2:2016-08

Land Mobile Service – Radio equipment with an internal or external RF connector intended primarily for analogue speech – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300113 V 2.1.1:2016-08

Land Mobile Service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300219 V 2.1.1:2016-08

Land Mobile Service – Radio equipment 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 300698 V 2.1.1:2016-08

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

EN 302961 V 2.1.2:2016-08

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 300674-2-1 V 2.1.1:2016-09

Transport and Traffic Telematics (TTT) – Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5795 MHz to 5815 MHz frequency band – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Sub-part 1: Road Side Units (RSU)

EN 301841-3 V 2.1.1:2016-09

VHF air-ground Digital Link (VDL) Mode 2 – Technical characteristics and methods of measurement for ground-based equipment – Part 3: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 301842-5 V 2.1.1:2016-09

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

EN 302064 V 2.1.1:2016-09

Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 302537 V 2.1.1:2016-10

Ultra Low Power Medical Data Service (MEDS) Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303204 V 2.1.2:2016-09

Network Based Short Range Devices (SRD) – Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303883 V 1.1.1:2016-09

Short Range Devices (SRD) using Ultra Wide Band (UWB) – Measurement Techniques

### 33.060.30

### Radioreleji i nepomični satelitski komunikacijski sustavi

**Europska normizacija**

**CENELEC**

EN 303372-1 V 1.1.1:2016-08

Satellite Earth Stations and Systems (SES) – Satellite broadcast reception equipment – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Outdoor unit receiving in the 10,7 GHz to 12,75 GHz frequency band

EN 302574-1 V 2.1.2:2016-09

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Mobile Earth Stations (MES) operating in the 1980 MHz to 2010 MHz (earth-to-space) and 2170 MHz to 2200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Complementary Ground Component (CGC) for wideband systems

EN 302574-2 V 2.1.2:2016-09

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Mobile Earth Stations (MES) operating in the 1980 MHz to 2010 MHz (earth-to-space) and 2170 MHz to 2200 MHz (space-to-earth) frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: User Equipment (UE) for wideband systems

### 33.060.40

### Kabelski distribucijski sustavi

**Europska normizacija**

**ETSI**

ETSI TS 101548 V 2.1.1:2016-09

Access, Terminals, Transmission and Multiplexing (ATTM) – European Requirements for Reverse Powering of Remote Access Equipment

ETSI TR 103182 V 1.1.1:2016-09

Integrated broadband cable telecommunication networks (CABLE) – Characteristics of Evolving Electromagnetic Environment with ECN800 parameters and Cable Network Equipment

### 33.060.99

### Ostala oprema za radiokomunikacije

**Europska normizacija**

**CENELEC**

EN 303146-3 V 1.2.1:2016-08

Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 3: Unified Radio Application Interface (URAI)

**ETSI**

ETSI TS 103436 V 1.1.1:2016-08

Reconfigurable Radio Systems (RRS) – Security requirements for reconfigurable radios

### **33.070.01                  Usluge pokretne mreže općenito**

#### **Europska normizacija CENELEC**

EN 300086 V 2.1.2:2016-08

Land Mobile Service – Radio equipment with an internal or external RF connector intended primarily for analogue speech – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300113 V 2.1.1:2016-08

Land Mobile Service – Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 300219 V 2.1.1:2016-08

Land Mobile Service – Radio equipment 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

### **33.070.10                  Terestrijalni trunking radio (TETRA)**

#### **Europska normizacija ETSI**

ETSI TR 103414 V 1.1.1:2016-09

TETRA and Critical Communications Evolution (TCCE) – Study into the provision of speech services over QAM channels

### **33.070.30                  Digitalne poboljšane bežične telekomunikacije (DECT)**

#### **Europska normizacija CENELEC**

EN 301406 V 2.2.2:2016-09

Digital Enhanced Cordless Telecommunications (DECT) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

### **33.070.50                  Globalni sustavi za pokretne komunikacije (GSM)**

#### **Europska normizacija ETSI**

ETSI TS 124301 V 13.6.1:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS) – Stage 3 (3GPP TS 24.301 version 13.6.1 Release 13)

ETSI TS 124334 V 12.6.1:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects – Stage 3 (3GPP TS 24.334 version 12.6.1 Release 12)

ETSI TS 124390 V 11.7.0:2016-08

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 11.7.0 Release 11)

ETSI TS 125214 V 13.3.1:2016-08

Universal Mobile Telecommunications System (UMTS) – Physical layer procedures (FDD) (3GPP TS 25.214 version 13.3.1 Release 13)

ETSI TS 125308 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – High Speed Downlink Packet Access (HSDPA) – Overall description – Stage 2 (3GPP TS 25.308 version 13.2.0 Release 13)

ETSI TS 125331 V 10.20.0:2016-08

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 10.20.0 Release 10)

ETSI TS 125331 V 11.17.0:2016-08

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 11.17.0 Release 11)

ETSI TS 125331 V 12.10.0:2016-08

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 12.10.0 Release 12)

ETSI TS 125331 V 13.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 13.3.0 Release 13)

ETSI TS 125433 V 12.6.0:2016-08

Universal Mobile Telecommunications System (UMTS) – UTRAN Iub interface Node B Application Part (NBAP) signalling (3GPP TS 25.433 version 12.6.0 Release 12)

ETSI TS 125433 V 13.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – UTRAN Iub interface Node B Application Part (NBAP) signalling (3GPP TS 25.433 version 13.3.0 Release 13)

ETSI TS 126442 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (fixed-point) (3GPP TS 26.442 version 13.2.0 Release 13)

ETSI TS 126445 V 12.7.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 12.7.0 Release 12)

ETSI TS 126445 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 13.2.0 Release 13)

ETSI TR 126924 V 13.0.0:2016-08

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia telephony over IP Multimedia Subsystem (IMS) – Study on improved end-to-end Quality of Service (QoS) handling for Multimedia Telephony Service for IMS (MTSI) (3GPP TR 26.924 version 13.0.0 Release 13)

ETSI TS 128753 V 13.1.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.753 version 13.1.0 Release 13)

ETSI TS 129002 V 8.22.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 8.22.0 Release 8)

ETSI TS 129002 V 9.13.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 9.13.0 Release 9)

ETSI TS 129002 V 10.11.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 10.11.0 Release 10)

ETSI TS 129002 V 11.12.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 11.12.0 Release 11)

ETSI TS 129002 V 12.9.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 12.9.0 Release 12)

ETSI TS 129002 V 13.4.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 13.4.0 Release 13)

ETSI TS 129060 V 13.5.0:2016-08

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 13.5.0 Release 13)

ETSI TS 129061 V 13.4.0:2016-08

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 13.4.0 Release 13)

ETSI TS 129153 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Service capability exposure functionality over Ns reference point (3GPP TS 29.153 version 13.2.0 Release 13)

ETSI TS 129154 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Service capability exposure functionality over Nt reference point (3GPP TS 29.154 version 13.2.0 Release 13)

ETSI TS 129162 V 13.3.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IM CN subsystem and IP networks (3GPP TS 29.162 version 13.3.0 Release 13)

ETSI TS 129163 V 8.30.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 8.30.0 Release 8)

ETSI TS 129163 V 9.24.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 9.24.0 Release 9)

ETSI TS 129163 V 10.20.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 10.20.0 Release 10)

ETSI TS 129163 V 11.17.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 11.17.0 Release 11)

ETSI TS 129163 V 12.12.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 12.12.0 Release 12)

ETSI TS 129163 V 13.6.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 13.6.0 Release 13)

ETSI TS 129165 V 11.17.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.17.0 Release 11)

ETSI TS 129165 V 12.12.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 12.12.0 Release 12)

ETSI TS 129165 V 13.5.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 13.5.0 Release 13)

ETSI TS 129172 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME) – SLg interface (3GPP TS 29.172 version 13.1.0 Release 13)

ETSI TS 129201 V 13.5.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Representational State Transfer (REST) reference point between Application Function (AF) and Protocol Converter (PC) (3GPP TS 29.201 version 13.5.0 Release 13)

ETSI TS 129212 V 10.17.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 10.17.0 Release 10)

ETSI TS 129212 V 11.18.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 11.18.0 Release 11)

ETSI TS 129212 V 12.13.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 12.13.0 Release 12)

ETSI TS 129212 V 13.6.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 13.6.0 Release 13)

ETSI TS 129213 V 12.12.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 12.12.0 Release 12)

ETSI TS 129213 V 13.6.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 13.6.0 Release 13)

ETSI TS 129214 V 12.12.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 12.12.0 Release 12)

ETSI TS 129214 V 13.6.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 13.6.0 Release 13)

ETSI TS 129215 V 13.6.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) over S9 reference point – Stage 3 (3GPP TS 29.215 version 13.6.0 Release 13)

ETSI TS 129217 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Congestion reporting over Np reference point (3GPP TS 29.217 version 13.4.0 Release 13)

ETSI TS 129228 V 12.9.0:2016-08

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 12.9.0 Release 12)

ETSI TS 129230 V 13.5.0:2016-08

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 13.5.0 Release 13)

ETSI TS 129238 V 13.2.0:2016-08

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 13.2.0 Release 13)

ETSI TS 129272 V 12.10.0:2016-08

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 12.10.0 Release 12)

ETSI TS 129272 V 13.6.0:2016-08

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 13.6.0 Release 13)

ETSI TS 129273 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 13.4.0 Release 13)

ETSI TS 129274 V 12.13.0:2016-08

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 12.13.0 Release 12)

ETSI TS 129274 V 13.6.0:2016-08

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 13.6.0 Release 13)

ETSI TS 129275 V 13.5.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols – Stage 3 (3GPP TS 29.275 version 13.5.0 Release 13)

ETSI TS 129281 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – General Packet Radio System (GPRS) Tunnelling Protocol User Plane (GTPv1-U) (3GPP TS 29.281 version 13.2.0 Release 13)

ETSI TS 129303 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Domain Name System Procedures – Stage 3 (3GPP TS 29.303 version 13.4.0 Release 13)

ETSI TS 129328 V 11.17.0:2016-08

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 11.17.0 Release 11)

ETSI TS 129328 V 12.12.0:2016-08

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 12.12.0 Release 12)

ETSI TS 129328 V 13.5.0:2016-08

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 13.5.0 Release 13)

ETSI TS 129332 V 13.2.0:2016-08

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 13.2.0 Release 13)

ETSI TS 129333 V 13.2.0:2016-08

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 13.2.0 Release 13)

ETSI TS 129334 V 13.5.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – 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 13.5.0 Release 13)

ETSI TS 129335 V 13.1.1:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – User Data Convergence (UDC) – User data repository access protocol over the Ud interface – Stage 3 (3GPP TS 29.335 version 13.1.1 Release 13)

ETSI TS 129336 V 13.4.0:2016-08

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 13.4.0 Release 13)

ETSI TS 129338 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 13.2.0 Release 13)

ETSI TS 129343 V 13.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) function to ProSe application server aspects (PC2) – Stage 3 (3GPP TS 29.343 version 13.3.0 Release 13)

ETSI TS 129345 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Inter-Proximity-services (Prose) function signalling aspects – Stage 3 (3GPP TS 29.345 version 13.2.0 Release 13)

ETSI TS 131101 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – UICC-terminal interface – Physical and logical characteristics (3GPP TS 31.101 version 13.2.0 Release 13)

ETSI TS 131102 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 13.4.0 Release 13)

ETSI TS 131103 V 13.1.0:2016-08

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 13.1.0 Release 13)

ETSI TS 131111 V 12.10.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111 version 12.10.0 Release 12)

ETSI TS 131111 V 13.4.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111 version 13.4.0 Release 13)

ETSI TS 131121 V 13.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 13.3.0 Release 13)

ETSI TS 131124 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 13.4.0 Release 13)

ETSI TS 132111-6 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fault Management – Part 6: Alarm

Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.111-6 version 13.1.0 Release 13)

ETSI TS 132126 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Advanced Alarm Management (AAM)  
Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.126 version 13.1.0 Release 13)

ETSI TS 132240 V 13.2.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging architecture and principles (3GPP TS 32.240 version 13.2.0 Release 13)

ETSI TS 132251 V 12.13.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 12.13.0 Release 12)

ETSI TS 132251 V 13.5.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 13.5.0 Release 13)

ETSI TS 132253 V 13.0.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Digital cellular telecommunications system (Phase 2+) (GSM) – Telecommunication management – Charging management – Control Plane (CP) data transfer domain charging (3GPP TS 32.253 version 13.0.0 Release 13)

ETSI TS 132260 V 13.6.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – IP Multimedia Subsystem (IMS) charging (3GPP TS 32.260 version 13.6.0 Release 13)

ETSI TS 132297 V 13.2.0:2016-08

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 13.2.0 Release 13)

ETSI TS 132298 V 8.22.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 8.22.0 Release 8)

ETSI TS 132298 V 9.22.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 9.22.0 Release 9)

ETSI TS 132298 V 10.19.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 10.19.0 Release 10)

ETSI TS 132298 V 11.16.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 11.16.0 Release 11)

ETSI TS 132298 V 12.11.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 12.11.0 Release 12)

ETSI TS 132298 V 13.4.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 13.4.0 Release 13)

ETSI TS 132299 V 13.5.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 13.5.0 Release 13)

ETSI TS 132306 V 13.1.0:2016-08

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 13.1.0 Release 13)

ETSI TS 132306 V 13.1.0:2016-08

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 13.1.0 Release 13)

ETSI TS 132326 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Test management Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.326 version 13.1.0 Release 13)

ETSI TS 132336 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Notification Log (NL) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.336 version 13.1.0 Release 13)

ETSI TS 132346 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – File Transfer (FT) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.346 version 13.1.0 Release 13)

ETSI TS 132356 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Communication Surveillance (CS) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.356 version 13.1.0 Release 13)

ETSI TS 132366 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Entry Point (EP) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.366 version 13.1.0 Release 13)

ETSI TS 132376 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Security services for Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.376 version 13.1.0 Release 13)

ETSI TS 132386 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Partial Suspension of If-N Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.386 version 13.1.0 Release 13)

ETSI TS 132396 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Delta synchronization Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.396 version 13.1.0 Release 13)

ETSI TS 132401 V 13.1.0:2016-08

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 13.1.0 Release 13)

ETSI TS 132416 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Performance Management (PM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.416 version 13.1.0 Release 13)

ETSI TS 132425 V 13.5.0:2016-08

LTE – Telecommunication management – Performance Management (PM) – Performance measurements Evolved Universal Terrestrial Radio Access Network (E-UTRAN) (3GPP TS 32.425 version 13.5.0 Release 13)

ETSI TS 132506 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-configuration of network elements Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.506 version 13.1.0 Release 13)

ETSI TS 132536 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Software management Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.536 version 13.1.0 Release 13)

ETSI TS 132592 V 9.4.0:2016-08

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 9.4.0 Release 9)

ETSI TS 132592 V 10.8.0:2016-08

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 10.8.0 Release 10)

ETSI TS 132592 V 11.3.0:2016-08

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 11.3.0 Release 11)

ETSI TS 132592 V 12.1.0:2016-08

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 12.1.0 Release 12)

ETSI TS 132592 V 13.1.0:2016-08

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 13.1.0 Release 13)

ETSI TS 132606 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – 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 13.1.0 Release 13)

ETSI TS 132616 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – 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 13.1.0 Release 13)

ETSI TS 132666 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – 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 13.1.0 Release 13)

ETSI TS 132792 V 10.2.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.792 version 10.2.0 Release 10)

ETSI TS 132792 V 11.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.792 version 11.1.0 Release 11)

ETSI TS 133106 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Lawful interception requirements (3GPP TS 33.106 version 13.4.0 Release 13)

ETSI TS 133107 V 13.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Lawful interception architecture and functions (3GPP TS 33.107 version 13.3.0 Release 13)

ETSI TS 133108 V 13.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 13.2.0 Release 13)

ETSI TS 133220 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Generic Authentication Architecture (GAA) – Generic Bootstrapping Architecture (GBA) (3GPP TS 33.220 version 13.1.0 Release 13)

ETSI TS 133224 V 13.1.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Generic Authentication Architecture (GAA) – Generic Bootstrapping Architecture (GBA) push layer (3GPP TS 33.224 version 13.1.0 Release 13)

ETSI TS 133303 V 12.7.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based Services (ProSe) – Security aspects (3GPP TS 33.303 version 12.7.0 Release 12)

ETSI TS 133303 V 13.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based Services (ProSe) – Security aspects (3GPP TS 33.303 version 13.4.0 Release 13)

ETSI TS 133401 V 13.3.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 13.3.0 Release 13)

ETSI TR 133926 V 13.0.0:2016-08

LTE – Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes (3GPP TR 33.926 version 13.0.0 Release 13)

ETSI TS 134108 V 12.2.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Common test environments for User Equipment (UE) – Conformance testing (3GPP TS 34.108 version 12.2.0 Release 12)

ETSI TS 134121-1 V 12.4.0:2016-08

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 12.4.0 Release 12)

ETSI TS 134121-1 V 13.0.0:2016-08

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 13.0.0 Release 13)

ETSI TS 134121-2 V 12.3.0:2016-08

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 34.121-2 version 12.3.0 Release 12)

ETSI TS 134123-1 V 12.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.123-1 version 12.4.0 Release 12)

ETSI TS 134123-2 V 12.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 2: Implementation conformance statement (ICS) proforma specification (3GPP TS 34.123-2 version 12.4.0 Release 12)

ETSI TS 134123-3 V 12.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.123-3 version 12.4.0 Release 12)

ETSI TS 134229-1 V 12.10.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.229-1 version 12.10.0 Release 12)

ETSI TS 134229-2 V 12.9.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) specification (3GPP TS 34.229-2 version 12.9.0 Release 12)

ETSI TS 134229-3 V 11.4.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.229-3 version 11.4.0 Release 11)

ETSI TS 136104 V 13.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 13.4.0 Release 13)

ETSI TS 136113 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC) (3GPP TS 36.113 version 13.2.0 Release 13)

ETSI TS 136141 V 12.12.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 12.12.0 Release 12)

ETSI TS 136141 V 13.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 13.4.0 Release 13)

ETSI TS 136201 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE physical layer – General description (3GPP TS 36.201 version 13.2.0 Release 13)

ETSI TS 136211 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical channels and modulation (3GPP TS 36.211 version 13.2.0 Release 13)

ETSI TS 136212 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Multiplexing and channel coding (3GPP TS 36.212 version 13.2.0 Release 13)

ETSI TS 136213 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer procedures (3GPP TS 36.213 version 13.2.0 Release 13)

ETSI TS 136214 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer – Measurements (3GPP TS 36.214 version 13.2.0 Release 13)

ETSI TS 136300 V 12.10.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 12.10.0 Release 12)

ETSI TS 136300 V 13.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 13.4.0 Release 13)

ETSI TS 136302 V 12.7.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 12.7.0 Release 12)

ETSI TS 136302 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 13.2.0 Release 13)

ETSI TS 136304 V 12.8.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 12.8.0 Release 12)

ETSI TS 136304 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 13.2.0 Release 13)

ETSI TS 136306 V 12.9.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 12.9.0 Release 12)

ETSI TS 136306 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 13.2.0 Release 13)

ETSI TS 136307 V 8.15.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 8.15.0 Release 8)

ETSI TS 136307 V 9.17.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 9.17.0 Release 9)

ETSI TS 136307 V 10.19.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 10.19.0 Release 10)

ETSI TS 136307 V 11.16.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 11.16.0 Release 11)

ETSI TS 136307 V 12.12.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 12.12.0 Release 12)

ETSI TS 136307 V 13.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 13.4.0 Release 13)

ETSI TS 136321 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 13.2.0 Release 13)

ETSI TS 136322 V 12.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Link Control (RLC) protocol specification (3GPP TS 36.322 version 12.4.0 Release 12)

ETSI TS 136322 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Link Control (RLC) protocol specification (3GPP TS 36.322 version 13.2.0 Release 13)

ETSI TS 136323 V 12.6.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 36.323 version 12.6.0 Release 12)

ETSI TS 136323 V 13.2.1:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 36.323 version 13.2.1 Release 13)

ETSI TS 136331 V 11.16.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 11.16.0 Release 11)

ETSI TS 136331 V 12.10.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 12.10.0 Release 12)

ETSI TS 136331 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 13.2.0 Release 13)

ETSI TS 136401 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Architecture description (3GPP TS 36.401 version 13.2.0 Release 13)

ETSI TS 136413 V 13.3.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – S1 Application Protocol (S1AP) (3GPP TS 36.413 version 13.3.0 Release 13)

ETSI TS 136423 V 12.9.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 12.9.0 Release 12)

ETSI TS 136423 V 13.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 13.4.0 Release 13)

ETSI TS 136509 V 12.4.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Special conformance testing functions for User Equipment (UE) (3GPP TS 36.509 version 12.4.0 Release 12)

ETSI TS 136509 V 13.0.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Special conformance testing functions for User Equipment (UE) (3GPP TS 36.509 version 13.0.0 Release 13)

ETSI TS 136521-1 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 13.2.0 Release 13)

ETSI TS 136521-2 V 13.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 13.2.0 Release 13)

ETSI TS 136521-3 V 12.10.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 12.10.0 Release 12)

ETSI TS 136523-1 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 13.1.0 Release 13)

ETSI TS 136523-2 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 13.1.0 Release 13)

ETSI TS 136523-3 V 12.6.0:2016-08

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 12.6.0 Release 12)

ETSI TR 136903 V 12.10.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test tolerances for Radio Resource Management (RRM) conformance tests (3GPP TR 36.903 version 12.10.0 Release 12)

ETSI TS 137571-1 V 12.7.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 12.7.0 Release 12)

ETSI TS 137571-1 V 13.0.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 13.0.0 Release 13)

ETSI TS 137571-3 V 12.7.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 12.7.0 Release 12)

ETSI TS 137571-4 V 12.5.0:2016-08

Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 12.5.0 Release 12)

ETSI TS 148018 V 13.2.0:2016-08

Digital cellular telecommunications system (Phase 2+) (GSM) – General Packet Radio Service (GPRS) – Base Station System (BSS) – Serving GPRS Support Node (SGSN) – BSS GPRS protocol (BSSGP) (3GPP TS 48.018 version 13.2.0 Release 13)

ETSI TS 151010-1 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 13.1.0 Release 13)

ETSI TS 151010-2 V 13.1.0:2016-08

Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (3GPP TS 51.010-2 version 13.1.0 Release 13)

ETSI TR 103404 V 1.1.1:2016-10

Network Technologies (NTECH) – Autonomic network engineering for the self-managing Future Internet (AFI) – Autonomicity and Self-Management in the Backhaul and Core network parts of the 3GPP Architecture

ETSI TS 122234 V 13.1.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Requirements on 3GPP system to Wireless Local Area Network (WLAN) interworking (3GPP TS 22.234 version 13.1.0 Release 13)

ETSI TS 122278 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Service requirements for the Evolved Packet System (EPS) (3GPP TS 22.278 version 13.4.0 Release 13)

ETSI TS 123002 V 13.7.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Network architecture (3GPP TS 23.002 version 13.7.0 Release 13)

ETSI TS 123003 V 13.7.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 13.7.0 Release 13)

ETSI TS 123007 V 13.6.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 13.6.0 Release 13)

ETSI TS 123040 V 13.2.0:2016-10

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 13.2.0 Release 13)

ETSI TS 123060 V 13.8.0:2016-10

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 13.8.0 Release 13)

ETSI TS 123122 V 13.6.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 13.6.0 Release 13)

ETSI TS 123161 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Network-Based IP Flow Mobility (NBIFOM) – Stage 2 (3GPP TS 23.161 version 13.4.0 Release 13)

ETSI TS 123203 V 13.9.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control architecture (3GPP TS 23.203 version 13.9.0 Release 13)

ETSI TS 123216 V 13.2.0:2016-10

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 13.2.0 Release 13)

ETSI TS 123228 V 13.7.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Stage 2 (3GPP TS 23.228 version 13.7.0 Release 13)

ETSI TS 123234 V 13.0.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP system to Wireless Local Area Network (WLAN) interworking – System description (3GPP TS 23.234 version 13.0.0 Release 13)

ETSI TS 123292 V 13.3.0:2016-10

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 13.3.0 Release 13)

ETSI TS 123303 V 13.5.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based services (ProSe) – Stage 2 (3GPP TS 23.303 version 13.5.0 Release 13)

ETSI TS 123327 V 13.1.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobility between 3GPP-Wireless Local Area Network (WLAN) interworking and 3GPP systems (3GPP TS 23.327 version 13.1.0 Release 13)

ETSI TS 123380 V 11.4.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IMS Restoration Procedures (3GPP TS 23.380 version 11.4.0 Release 11)

ETSI TS 123380 V 12.4.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IMS Restoration Procedures (3GPP TS 23.380 version 12.4.0 Release 12)

ETSI TS 123380 V 13.4.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IMS Restoration Procedures (3GPP TS 23.380 version 13.4.0 Release 13)

ETSI TS 123401 V 13.8.0:2016-10

LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 13.8.0 Release 13)

ETSI TS 123402 V 13.7.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 13.7.0 Release 13)

ETSI TS 123682 V 13.7.0:2016-10

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 13.7.0 Release 13)

ETSI TS 124011 V 13.2.0:2016-10

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 13.2.0 Release 13)

ETSI TS 124229 V 8.35.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 8.35.0 Release 8)

ETSI TS 124229 V 9.27.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 9.27.0 Release 9)

ETSI TS 124229 V 10.24.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 10.24.0 Release 10)

ETSI TS 124229 V 11.21.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 11.21.0 Release 11)

ETSI TS 125211 V 12.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Physical channels and mapping of transport channels onto physical channels (FDD) (3GPP TS 25.211 version 12.2.0 Release 12)

ETSI TS 125211 V 13.1.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Physical channels and mapping of transport channels onto physical channels (FDD) (3GPP TS 25.211 version 13.1.0 Release 13)

ETSI TS 125214 V 12.5.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Physical layer procedures (FDD) (3GPP TS 25.214 version 12.5.0 Release 12)

ETSI TS 125214 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Physical layer procedures (FDD) (3GPP TS 25.214 version 13.4.0 Release 13)

ETSI TS 129061 V 13.5.0:2016-10

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 13.5.0 Release 13)

ETSI TS 129154 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Service capability exposure functionality over Nt reference point (3GPP TS 29.154 version 13.3.0 Release 13)

ETSI TS 129163 V 13.7.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 13.7.0 Release 13)

ETSI TS 136101 V 11.17.0:2016-09

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 11.17.0 Release 11)

ETSI TS 136101 V 12.12.0:2016-09

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 12.12.0 Release 12)

ETSI TS 136101 V 13.4.0:2016-09

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 13.4.0 Release 13)

ETSI TS 136212 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Multiplexing and channel coding (3GPP TS 36.212 version 13.3.0 Release 13)

ETSI TS 136214 V 12.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer – Measurements (3GPP TS 36.214 version 12.3.0 Release 12)

ETSI TS 136214 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer – Measurements (3GPP TS 36.214 version 13.3.0 Release 13)

ETSI TS 136302 V 12.8.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 12.8.0 Release 12)

ETSI TS 136302 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 13.3.0 Release 13)

ETSI TS 136355 V 13.2.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 13.2.0 Release 13)

ETSI TS 136413 V 13.4.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – S1 Application Protocol (S1AP) (3GPP TS 36.413 version 13.4.0 Release 13)

ETSI TS 136423 V 13.5.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 13.5.0 Release 13)

### **33.070.99**

### **Ostale pokretne službe**

#### **Europska normizacija**

**CEN**

EN 303146-3 V 1.2.1:2016-08

Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 3: Unified Radio Application Interface (URAI)

#### **ETSI**

ETSI TS 129128 V 13.1.0:2016-08

LTE – Universal Mobile Telecommunications System (UMTS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) interfaces for interworking with packet data networks and applications (3GPP TS 29.128 version 13.1.0 Release 13)

ETSI TS 129283 V 13.1.0:2016-08

LTE – Universal Mobile Telecommunications System (UMTS) – Diameter data management applications (3GPP TS 29.283 version 13.1.0 Release 13)

ETSI TS 133179 V 13.1.0:2016-08

LTE – Security of Mission Critical Push To Talk (MCPTT) over LTE (3GPP TS 33.179 version 13.1.0 Release 13)

ETSI TS 136361 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE/WLAN Radio Level Integration Using IPsec Tunnel (LWIP) encapsulation – Protocol specification (3GPP TS 36.361 version 13.1.0 Release 13)

ETSI TS 136463 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) and Wireless LAN (WLAN) – Xw application protocol (XwAP) (3GPP TS 36.463 version 13.1.0 Release 13)

ETSI TS 136464 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) and Wireless LAN (WLAN) – Xw data transport (3GPP TS 36.464 version 13.1.0 Release 13)

ETSI TS 136465 V 13.1.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) and Wireless LAN (WLAN) – Xw interface user plane protocol (3GPP TS 36.465 version 13.1.0 Release 13)

ETSI TR 136905 V 12.2.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test points for radio transmission and reception conformance test cases (3GPP TR 36.905 version 12.2.0 Release 12)

ETSI TR 136905 V 13.0.0:2016-08

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test points for radio transmission and reception conformance test cases (3GPP TR 36.905 version 13.0.0 Release 13)

ETSI TS 123179 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Functional architecture and information flows to support mission critical communication services – Stage 2 (3GPP TS 23.179 version 13.3.0 Release 13)

ETSI TS 124161 V 13.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Network-Based IP Flow Mobility (NBIFOM) – Stage 3 (3GPP TS 24.161 version 13.2.0 Release 13)

ETSI TS 136361 V 13.2.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE/WLAN Radio Level Integration Using IPsec Tunnel (LWIP) encapsulation – Protocol specification (3GPP TS 36.361 version 13.2.0 Release 13)

ETSI TS 136425 V 13.1.1:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 interface user plane protocol (3GPP TS 36.425 version 13.1.1 Release 13)

ETSI TS 136464 V 13.2.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) and Wireless LAN (WLAN) – Xw data transport (3GPP TS 36.464 version 13.2.0 Release 13)

### **33.100.01                    Elektromagnetska kompatibilnost općenito**

**Europska normizacija**  
**CEELEC**

EN 302064 V 2.1.1:2016-09

Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

### **33.100.10                    Zračenje**

**Europska normizacija**  
**ETSI**

ETSI TS 102692 V 1.2.1:2016-08

Ultra Wideband (UWB) – RF conformance testing of radar level gauging applications in stillpipes TLPR

ETSI TR 103409 V 1.1.1:2016-10

System Reference document (SRdoc) – Wireless Power Transmission (WPT) systems for Electric Vehicles (EV) operating in the frequency band 79 – 90 kHz

### **33.100.20                    Otpornost**

**Međunarodna normizacija**  
**ISO**

ISO 11452-3:2016-09

Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 3: Transverse electromagnetic (TEM) cell

**IEC**

IEC 61000-6-1:2016-08

Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments

IEC 61000-6-2:2016-08

Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments

### **33.120.10                    Koaksijalni kabeli. Valovodi**

**Europska normizacija**  
**CENELEC**

EN 50290-2-35:2016-08

Communication cables – Part 2-35: Common design rules and construction – Polyamide sheathing compound

EN 50290-2-36:2016-08

Communication cables – Part 2-36: Common design rules and construction – Crosslinked Silicone rubber insulation compound

EN 50289-4-16:2016-09

Communication cables – Specifications for test methods – Part 4-16: Environmental test methods – Circuit integrity under fire conditions

EN 50290-2-29:2016-09

Communication cables – Part 2-29: Common design rules and construction – Crosslinked polyethylene insulation compounds: instrumentation, control and field bus cables

EN 60153-1:2016-09

Hollow metallic waveguides – Part 1: General requirements and measuring methods (IEC 60153-1:2016)

EN 60153-2:2016-09

Hollow metallic waveguides – Part 2: Relevant specifications for ordinary rectangular waveguides (IEC 60153-2:2016)

EN 60154-1:2016-09

Flanges for waveguides – Part 1: General requirements (IEC 60154-1:2016)

### 33.120.20

### Žice i simetrični kabeli

**Europska normizacija**

**CENELEC**

EN 60708/AC:2016-08

Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath (IEC 60708:2005/COR1:2016)

**Međunarodna normizacija**

**IEC**

IEC 60708 Corrigendum 1:2016-08

Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath; Corrigendum 1

IEC/TR 61156-1-6:2016-09

Multicore and symmetrical pair/quad cables for digital communications – Part 1-6: Nominal DC-resistance values of floor-wiring and work-area cables for digital communications

### 33.120.30

### RF konektori

**Međunarodna normizacija**

**IEC**

IEC 61169-58:2016-08

Radio-frequency connectors – Part 58: Sectional specification for RF coaxial connectors with blind-mate coupling – Characteristic impedance 50 (type SBMA)

IEC 61169-54:2016-09

Radio-frequency connectors – Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω, series 4,3-10

### 33.160.25

### Televizijski prijamnici

**Europska normizacija**

**CENELEC**

EN 303340 V 1.1.2:2016-05

Digital Terrestrial TV Broadcast Receivers – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

### **33.160.30                    Audiosustavi**

#### **Europska normizacija CENELEC**

EN 61937-7/A1:2016-09

Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 7: Non-linear PCM bitstreams according to the ATRAC, ATRAC2/3 and ATRAC-X formats (TA 4) (IEC 61937-7:2004/A1:2016)

### **33.160.50                    Pribor**

#### **Europska normizacija CENELEC**

EN 61094-3:2016-09

Electroacoustics – Measurement microphones – Part 3: Primary method for free-field calibration of laboratory standard microphones by the reciprocity technique (IEC 61094-3:2016)

EN 61094-5:2016-09

Electroacoustics – Measurement microphones – Part 5: Methods for pressure calibration of working standard microphones by comparison (IEC 61094-5:2016)

EN 300422-1 V 2.1.1:2016-09

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

### **33.160.60                    Multimedijski sustavi i telekonferencijska oprema**

#### **Europska normizacija CENELEC**

EN 61966-2-4/A1:2016-09

Multimedia systems and equipment – Colour measurement and management – Part 2-4: Colour management – Extended-gamut YCC colour space for video applications – xvYCC (IEC 61966-2-4:2006/A1:2016)

### **33.170                        Televizijski i radijski prijenos**

#### **Europska normizacija ETSI**

ETSI TS 102796 V 1.4.1:2016-08  
Hybrid Broadcast Broadband TV

ETSI TS 103443-1 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 1: General

ETSI TS 103443-2 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 2: NAT64

ETSI TS 103443-3 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 3: DS-Lite

ETSI TS 103443-4 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 4: MAP-E

ETSI TS 103443-5 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 5: 464XLAT

ETSI TS 103443-6 V 1.1.1:2016-08

Integrated broadband cable telecommunication networks (CABLE) – IPv6 Transition Technology Engineering and Operational Aspects – Part 6: 6RD

ETSI TS 103448 V 1.1.1:2016-09

AC-4 Object Audio Renderer for Consumer Use

ETSI TS 103464 V 1.1.1:2016-09

Hybrid Broadcast Broadband TV Application Discovery over Broadband

ETSI TS 103466 V 1.1.1:2016-10

Digital Audio Broadcasting (DAB) – DAB audio coding (MPEG Layer II)

### **33.180.10 Svjetlovodna vlakna i kabeli**

#### **Europska normizacija**

**CENELEC**

EN 50582:2016-08

Procedure to assess the circuit integrity of optical fibres in a cable under resistance to fire testing

EN 60332-1-2/A11:2016-08

Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame

#### **Međunarodna normizacija**

**IEC**

IEC 60794-3-20:2016-09

Optical fibre cables – Part 3-20: Outdoor cables – Family specification for self-supporting aerial telecommunication cables

### **33.180.20 Svjetlovodni vezne naprave**

#### **Europska normizacija**

**CENELEC**

EN 61300-2-37:2016-08

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-37: Tests – Cable bending for fibre optic closures (IEC 61300-2-37:2016)

EN 61300-2-47:2016-09

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-47: Tests – Thermal shocks (IEC 61300-2-47:2016)

## Međunarodna normizacija IEC

IEC 61300-3-25:2016-08

## Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-25: Examinations and measurements – Concentricity of non-angled ferrules and non-angled ferrules with fibre installed

IEC 61754-32:2016-09

## Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 32: Type DiaLink connector family

IEC 61754-34:2016-09

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 34: Type URM connector family

33.180.30 Optička pojačala

## **Europska normizacija CENELEC**

EN 62343-3-1:2016-07

Dynamic modules – Part 3-1: Performance specification templates – Dynamic channel equalizers (IEC 62343-3-1:2016)

# Međunarodna normizacija IEC

IEC 61290-4-1:2016-09

Optical amplifiers – Test methods – Part 4-1: Gain transient parameters – Two-wavelength method

### **33.200 Daljinsko upravljanje. Daljinsko mierenje**

## **Europska normizacija ETSI**

ETSI TS 118101 V 2.10.0:2016-10

oneM2M – Functional Architecture (oneM2M TS-0001 version 2.10.0 Release 2)

ETSI TS 118102 V 2.7.1:2016-09

oneM2M Requirements (oneM2M TS-0002 version 2.7.1 Release 2)

ETSI TS 118103 V 2.4.1:2016-09

oneM2M – Security solutions (oneM2M TS-0003 version 2.4.1 Release 2)

ETSI TS 118104 V 2.7.1:2016-10

oneM2M – Service Layer Core Protocol Specification (oneM2M TS-0004 version 2.7.1 Release 2)

ETSI TS 118105 V 2.0.0:2016-09

oneM2M – Management Enablement (OMA) (oneM2M TS-0005 version 2.0.0 Release 2)

ETSI TS 118106 V 2.0.1:2016-09

oneM2M – Management Enablement (BBF) (oneM2M TS-0006 version 2.0.1 Release 2)

ETSI TS 118109 V 2.6.1:2016-09

oneM2M – HTTP Protocol Binding (oneM2M TS-0009 version 2.6.1 Release 2)

ETSI TS 118110 V 2.4.1:2016-09  
oneM2M – MQTT Protocol Binding (oneM2M TS-0010 version 2.4.1 Release 2)

ETSI TS 118111 V 2.4.1:2016-09  
oneM2M – Common Terminology (oneM2M TS-0011 version 2.4.1 Release 2)

ETSI TS 118112 V 2.0.0:2016-09  
oneM2M – Base Ontology (oneM2M TS-0012 version 2.0.0 Release 2)

ETSI TS 118114 V 2.0.0:2016-09  
oneM2M – LWM2M Interworking (oneM2M TS-0014 version 2.0.0 Release 2)

ETSI TS 118115 V 2.0.0:2016-09  
oneM2M – Testing Framework (oneM2M TS-0015 version 2.0.0 Release 2)

ETSI TS 118120 V 2.0.0:2016-09  
oneM2M – WebSocket Protocol Binding (oneM2M TS-0020 version 2.0.0 Release 2)

ETSI TS 118121 V 2.0.0:2016-09  
oneM2M – oneM2M and AllJoyn® Interworking (oneM2M TS-0021 version 2.0.0 Release 2)

ETSI TS 118123 V 2.0.0:2016-09  
oneM2M – Home Appliances Information Model and Mapping (oneM2M TS-0023 version 2.0.0  
Release 2)

ETSI TS 118124 V 2.0.0:2016-09  
oneM2M – OIC Interworking (oneM2M TS-0024 version 2.0.0 Release 2)

ETSI TR 118512 V 2.0.0:2016-09  
oneM2M – End-to-End Security and Group Authentication (oneM2M TR-0012 version 2.0.0)

ETSI TR 118516 V 2.0.0:2016-09  
oneM2M – Study of Authorization Architecture for Supporting Heterogeneous Access Control Policies  
(oneM2M TR-0016 version 2.0.0)

ETSI TR 118517 V 2.0.0:2016-09  
oneM2M – Home Domain Abstract Information Model (oneM2M TR-0017 version 2.0.0)

ETSI TR 118518 V 2.0.0:2016-09  
oneM2M – Industrial Domain Enablement (oneM2M TR-0018 version 2.0.0 Release 2)

ETSI TR 118522 V 2.0.0:2016-09  
oneM2M – Continuation & integration of HGI Smart Home activities (oneM2M TR-0022 version 2.0.0)

ETSI TR 118524 V 2.0.0:2016-09  
oneM2M – 3GPP Release 13 Interworking (oneM2M TR-0024 version 2.0.0)

35.020

## **Informacijska tehnologija (IT) općenito**

## Međunarodna normizacija ISO

ISO/IEC TR 30132-1:2016-09  
Information technology – Information technology sustainability – Energy efficient computing models –  
Part 1: Guidelines for energy effectiveness evaluation

ISO/IEC TR 38504:2016-09  
Governance of information technology – Guidance for principles-based standards in the governance of information technology

**35.030** **Sigurnost u Informacijskoj tehnologiji**

# Europska normizacija CEN/CENELEC

EN ISO/IEC 27037:2016-08

Information technology – Security techniques – Guidelines for identification, collection, acquisition and preservation of digital evidence (ISO/IEC 27037:2012)

EN ISO/IEC 27042:2016-08

Information technology – Security techniques – Guidelines for the analysis and interpretation of digital evidence (ISO/IEC 27042:2015)

EN ISO/IEC 27043:2016-08

Information technology – Security techniques – Incident investigation principles and processes  
(ISO/IEC 27043:2015)

ETSI

ETSI GR NFV-SEC 003 V 1.2.1:2016-08

Network Functions Virtualisation (NFV) – NFV Security – Security and Trust Guidance

ETSI TS 103307 V 1.2.1:2016-10

CYBER – Security Aspects for LI and RD Interfaces

## Međunarodna normizacija

ISO

ISO/IEC 27036-4:2016-10

Information technology – Security techniques – Information security for supplier relationships – Part 4: Guidelines for security of cloud services

IEC

IEC/TR 62351-13:2016-08

## Power systems management and associated information exchange – Data and communications security – Part 13: Guidelines on security topics to be covered in standards and specifications

IEC 62351-11:2016-09

Power systems management and associated information exchange – Data and communications security – Part 11: Security for XML documents

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

## **Europska normizacija CENELEC**

EN 61937-7/A1:2016-09

Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 7:  
Non-linear PCM bitstreams according to the ATRAC, ATRAC2/3 and ATRAC-X formats (TA 4)  
(IEC 61937-7:2004/A1:2016)

**Međunarodna normizacija  
ISO**

ISO/IEC 23008-3 AMD 2:2016-09  
Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 3: 3D audio – Amendment 2: MPEG-H 3D Audio File Format Support

**35.040.50 Tehnike automatskog prepoznavanja i preuzimanja podataka**

**Međunarodna normizacija  
ISO**

ISO/IEC 15961-4:2016-08  
Information technology – Radio frequency identification (RFID) for item management: Data protocol – Part 4: Application interface commands for battery assist and sensor functionality

**35.080 Softver (programska podrška)**

**Europska normizacija  
CEN/CENELEC**

EN ISO/IEC 30121:2016-08  
Information technology – Governance of digital forensic risk framework (ISO/IEC 30121:2015)

**ETSI**

ETSI ES 203119-1 V 1.3.1:2016-09  
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 1: Abstract Syntax and Associated Semantics

ETSI ES 203119-2 V 1.2.1:2016-09  
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 2: Graphical Syntax

ETSI ES 203119-3 V 1.2.1:2016-09  
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 3: Exchange Format

ETSI ES 203119-4 V 1.2.1:2016-09  
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 4: Structured Test Objective Specification (Extension)

**35.110 Umrežavanje**

**Europska normizacija  
ETSI**

ETSI GS NFV-IFA 010 V 2.2.1:2016-09  
Network Functions Virtualisation (NFV) – Management and Orchestration – Functional requirements specification

ETSI GS NGP 001 V 1.1.1:2016-10  
Next Generation Protocol (NGP) – Scenario Definitions

## **35.160 Mikroprocesorski sustavi**

### **Europska normizacija CENELEC**

EN 61784-3:2016-08

Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses – General rules and profile definitions (IEC 61784-3:2016)

EN 62591:2016-09

Industrial communication networks – Wireless communication network and communication profiles – WirelessHART(tm) (IEC 62591:2016)

## **35.180 Terminalna i druga vanjska oprema informacijske tehnologije**

### **Međunarodna normizacija ISO**

ISO/IEC 9995-9:2016-10

Information technology – Keyboard layouts for text and office systems – Part 9: Multi-lingual, multiscript keyboard layouts

## **35.200 Sučelna i spojna oprema**

### **Međunarodna normizacija IEC**

IEC 62680-1-3:2016-08

Universal serial bus interfaces for data and power – Part 1-3: Universal Serial Bus interfaces – Common components – USB Type-CTM cable and connector specification

## **35.210 Računalstvo u oblaku**

### **Međunarodna normizacija ISO**

ISO/IEC 19086-1:2016-09

Information technology – Cloud computing – Service level agreement (SLA) framework – Part 1: Overview and concepts

ISO/IEC 27036-4:2016-10

Information technology – Security techniques – Information security for supplier relationships – Part 4: Guidelines for security of cloud services

## **35.240.15 Identifikacijske kartice i pripadajuće naprave**

### **Europska normizacija ETSI**

ETSI TS 102695-3 V 11.0.0:2016-08

Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 3: Host Controller features (Release 11)

ETSI TS 102223 V 13.1.0:2016-09

Smart Cards – Card Application Toolkit (CAT) (Release 13)

ETSI TS 102622 V 13.0.0:2016-10

Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI)  
(Release 13)

**Međunarodna normizacija**

**ISO**

ISO/IEC 18745-2:2016-08

Information technology – Test methods for machine readable travel documents (MRTD) and associated devices – Part 2: Test methods for the contactless interface

ISO/IEC 19794-14 AMD 1:2016-08

Information technology – Biometric data interchange formats – Part 14: DNA data – Amendment 1: Conformance testing and clarification of defects

**35.240.50**

**Primjene IT-a u industriji**

**Europska normizacija**

**CENELEC**

EN 61784-3:2016-08

Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses – General rules and profile definitions (IEC 61784-3:2016)

EN 62325-451-2/AC:2016-08

Framework for energy market communications – Part 451-2: Scheduling business process and contextual model for CIM European market (IEC 62325-451-2:2014/COR1:2016)

EN 62325-351:2016-09

Framework for energy market communications – Part 351: CIM European market model exchange profile (IEC 62325-351:2016)

EN 62325-451-6:2016-09

Framework for energy market communications – Part 451-6: Publication of information on market, contextual and assembly models for European style market (IEC 62325-451-6:2016)

EN 62591:2016-09

Industrial communication networks – Wireless communication network and communication profiles – WirelessHART(tm) (IEC 62591:2016)

**Međunarodna normizacija**

**IEC**

IEC 62325-451-2 Corrigendum 1:2016-08

Framework for energy market communications – Part 451-2: Scheduling business process and contextual models for CIM European market; Corrigendum 1

IEC 61511-1 Corrigendum 1:2016-09

Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements; Corrigendum 1

IEC 61970-552:2016-09

Energy management system application program interface (EMS-API) – Part 552: CIMXML Model exchange format

IEC 62351-11:2016-09

Power systems management and associated information exchange – Data and communications security – Part 11: Security for XML documents

### **35.240.60 Primjene IT-a u prijevozu i trgovini**

#### **Europska normizacija**

##### **CENELEC**

EN 62325-451-2/AC:2016-08

Framework for energy market communications – Part 451-2: Scheduling business process and contextual model for CIM European market (IEC 62325-451-2:2014/COR1:2016)

EN 12896-1:2016-09

Public transport – Reference data model – Part 1: Common concepts

EN 12896-2:2016-09

Public transport – Reference data model – Part 2: Public transport network

EN 12896-3:2016-09

Public transport – Reference data model – Part 3: Timing information and vehicle scheduling

#### **ETSI**

ETSI TR 103442 V 1.2.1:2016-09

Railways Telecommunications (RT) – Shared use of spectrum between Communication Based Train Control (CBTC) and ITS applications

#### **Međunarodna normizacija**

##### **ISO**

ISO 17987-2:2016-08

Road vehicles – Local Interconnect Network (LIN) – Part 2: Transport protocol and network layer services

ISO 18495-1:2016-09

Intelligent transport systems – Commercial freight – Automotive visibility in the distribution supply chain – Part 1: Architecture and data definitions

ISO 19079:2016-10

Intelligent transport systems – Communications access for land mobiles (CALM) – 6LoWPAN networking

#### **IEC**

IEC 62325-451-2 Corrigendum 1:2016-08

Framework for energy market communications – Part 451-2: Scheduling business process and contextual models for CIM European market; Corrigendum 1

### **35.240.70 IT-a aplikacije za trgovinu**

#### **Europska normizacija**

##### **CENELEC**

EN 62325-451-6:2016-09

Framework for energy market communications – Part 451-6: Publication of information on market, contextual and assembly models for European style market (IEC 62325-451-6:2016)

**35.240.70                    Primjene IT-a u znanosti**

**Međunarodna normizacija  
ISO**

ISO 19104:2016-10  
Geographic information – Terminology

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

**Europska normizacija  
CEN/CENELEC**

EN ISO 11073-20601:2016-08  
Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol (ISO/IEEE 11073-20601:2016, including Cor 1:2016)

EN ISO 27799:2016-08  
Health informatics – Information security management in health using ISO/IEC 27002  
(ISO 27799:2016)

**Međunarodna normizacija  
ISO**

ISO/IEEE 11073-10418 Technical Corrigendum 1:2016-10  
Health informatics – Personal health device communication – Part 10418: Device specialization – International Normalized Ratio (INR) monitor; Technical Corrigendum 1

**35.240.90                    IT aplikacije za obrazovanje**

**Međunarodna normizacija  
ISO**

ISO/IEC TR 18120:2016-08  
Information technology – Learning, education, and training – Requirements for e-textbooks in education

**35.240.95                    Internetske aplikacije**

**Europska normizacija  
ETSI**

ETSI TR 103404 V 1.1.1:2016-10  
Network Technologies (NTECH) – Autonomic network engineering for the self-managing Future Internet (AFI) – Autonomicity and Self-Management in the Backhaul and Core network parts of the 3GPP Architecture

**37.100.10                    Oprema za umnožavanje**

**Međunarodna normizacija  
ISO**

ISO/IEC 24734 Technical Corrigendum 1:2016-08  
Information technology – Office equipment – Method for measuring digital printing productivity;  
Technical Corrigendum 1

**39.040.10                    Ručni i džepni satovi**

**Međunarodna normizacija  
IEC**

IEC 60086-3:2016-05  
Primary batteries – Part 3: Watch batteries

**43.020                        Cestovna vozila općenito**

**Međunarodna normizacija  
ISO**

ISO 17987-3:2016-08  
Road vehicles – Local Interconnect Network (LIN) – Part 3: Protocol specification

**43.040.10                    Električna i elektronička oprema**

**Međunarodna normizacija  
ISO**

ISO 11452-3:2016-09  
Road vehicles – Component test methods for electrical disturbances from narrowband radiated  
electromagnetic energy – Part 3: Transverse electromagnetic (TEM) cell

**43.040.15                    Informatika vozila. Računalni sustavi u vozilu**

**Međunarodna normizacija  
ISO**

ISO 17987-1:2016-08  
Road vehicles – Local Interconnect Network (LIN) – Part 1: General information and use case  
definition

ISO 17987-2:2016-08  
Road vehicles – Local Interconnect Network (LIN) – Part 2: Transport protocol and network layer  
services

ISO 17987-4:2016-09  
Road vehicles – Local Interconnect Network (LIN) – Part 4: Electrical physical layer (EPL) specification  
12 V/24 V

**43.060.40** Sustavi goriva

# Međunarodna normizacija ISO

ISO 12619-4:2016-08

## Road vehicles – Compressed gaseous hydrogen (CGH<sub>2</sub>) and hydrogen/natural gas blends fuel system components – Part 4: Check valve

ISO 12619-5:2016-08

## Road vehicles – Compressed gaseous hydrogen (CGH<sub>2</sub>) and hydrogen/natural gas blends fuel system components – Part 5: Manual cylinder valve

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

## Međunarodna normizacija ISO

ISO 19365:2016-10

Passenger cars – Validation of vehicle dynamic simulation – Sine with dwell stability control testing

**43.120 Električna cestovna vozila**

## **Europska normizacija CENELEC**

EN 62752:2016-08

In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD) (IEC 62752:2016)

## Međunarodna normizacija IEC

IEC 62660-3:2016-08

Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 3: Safety requirements

**43.150**

## Međunarodna normizacija ISO

ISO 6699:2016-08

### Cycles – Handlebar centre and stem dimensions

43.180 Oprema za dijagnostiku, održavanje i ispitivanje

## Međunarodna normizacija ISO

ISO 14230-2:2016-08

Road vehicles – Diagnostic communication over K-Line (DoK-Line) – Part 2: Data link layer

**45.040                   Materijali i sastavni dijelovi za željezničku tehniku**

**Europska normizacija  
CEN**

EN 15220:2016-08  
Railway applications – Brake indicators

**45.060.01               Željeznička tračnička vozila općenito**

**Europska normizacija  
CEN/CENELEC**

EN 15566:2016-09  
Railway applications – Railway rolling stock – Draw gear and screw coupling

EN 62625-2:2016-09  
Electronic railway equipment – On board driving data recording system – Part 2: Conformity testing (IEC 62625-2:2016)

**45.060.10               Vučna vozila**

**Europska normizacija  
CEN**

EN 16186-3:2016-08  
Railway applications – Driver's cab – Part 3: Design of displays

EN 50367/A1:2016-08  
Railway applications – Current collection systems – Technical criteria for the interaction between pantograph and overhead line (to achieve free access)

**45.060.20               Vozila za tegljenje**

**Europska normizacija  
CEN**

EN 13129:2016-08  
Railway applications – Air conditioning for main line rolling stock – Comfort parameters and type tests

**47.020.30               Cjevododni sustavi**

**Europska normizacija  
CEN**

EN 16865:2016-10  
Inland navigation vessels – Connections and assembled hoses for the transfer of potable water

**47.020.40               Oprema za dizanje i rukovanje teretom**

**Međunarodna normizacija  
ISO**

ISO 19356:2016-09  
Ships and marine technology – Marine cranes – Test specifications and procedures

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

### **Međunarodna normizacija IEC**

IEC 60092-202:2016-09

Electrical installations in ships – Part 202: System design – Protection

IEC 60092-353:2016-09

Electrical installations in ships – Part 353: Power cables for rated voltages 1 kV and 3 kV

IEC 60092-504:2016-09

Electrical installations in ships – Part 504: Automation, control and instrumentation

## **47.020.70                    Oprema za navigaciju i upravljanje**

### **Europska normizacija CENELEC**

EN 300698 V 2.1.1:2016-08

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

### **Međunarodna normizacija IEC**

IEC 61097-4 AMD 1:2016-08

Global maritime distress and safety system (GMDSS) – Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment – Operational and performance requirements, methods of testing and required test results; Amendment 1

IEC 61097-4 Edition 3.1:2016-08

Global maritime distress and safety system (GMDSS) – Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment – Operational and performance requirements, methods of testing and required test results

IEC 61162-1:2016-08

Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1: Single talker and multiple listeners

## **47.040                    Morska plovila**

### **Međunarodna normizacija ISO**

ISO 22472:2016-09

Ships and marine technology – Guidelines for the operation and installation of voyage data recorder (VDR)

**47.060 Plovila za unutrašnji promet**

**Europska normizacija  
CEN**

EN 16865:2016-10

Inland navigation vessels – Connections and assembled hoses for the transfer of potable water

**Međunarodna normizacija  
ISO**

EN ISO 7236:2016-08

Ships and marine technology – Inland navigation vessels – Mounting attachments for demountable signal masts for push-tows (ISO 7236:2014)

**47.080 Mala plovila**

**Europska normizacija  
CEN**

EN ISO 8666:2016-08

Small craft – Principal data (ISO 8666:2016)

**49.030.20 Vijci i svorni vijci**

**Međunarodna normizacija  
ISO**

ISO 8168:2016-08

Aerospace – Bolts, with MJ threads, made of heat and corrosion resisting steel, strength class 1 100 MPa – Procurement specification

**49.030.50 Podložne pločice i ostali sigurnosni elementi**

**Europska normizacija  
CEN**

EN 6090:2016-08

Aerospace series – Washer, retaining

EN 6094:2016-08

Aerospace series – Washer, spring, countersunk

**49.030.99 Ostale vrste spojnih elemenata**

**Europska normizacija  
CEN**

EN 6092:2016-08

Aerospace series – Receptacle, floating, double lug

## **49.035 Sastavni dijelovi za zrakoplovne konstrukcije**

**Europska normizacija**  
**CEN**

EN 4534-2:2016-09

Aerospace series – Bushes, plain in aluminium alloy with self-lubricating liner, elevated load – Part 2: Dimensions and loads – Inch series

EN 4535-2:2016-09

Aerospace series – Bushes, flanged in aluminium alloy with self-lubricating liner, elevated load – Part 2: Dimensions and loads – Inch series

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

**Europska normizacija**  
**CENELEC**

EN 303084 V 2.1.1:2016-08

Ground Based Augmentation System (GBAS) VHF ground-air Data Broadcast (VDB) – Technical characteristics and methods of measurement for ground-based equipment – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

## **49.100 Zemaljska služba i oprema za održavanje**

**Međunarodna normizacija**  
**ISO**

ISO 20683-1:2016-08

Aircraft ground equipment – Nose gear towbarless towing vehicle (TLTV) – Design, testing and maintenance requirements – Part 1: Main line aircraft

ISO 20683-2:2016-08

Aircraft ground equipment – Design, testing and maintenance requirements for nose gear towbarless towing vehicle (TLTV) – Part 2: Regional aircraft

## **49.140 Svemirski sustavi i operacije**

**Europska normizacija**  
**CEN**

EN 16602-20-07:2016-08

Space product assurance – Quality and safety assurance for space test centres

EN 16602-20-08:2016-08

Space product assurance – Storage, handling and transportation of spacecraft hardware

EN 16602-70-71:2016-08

Space product assurance – Materials, processes and their data selection

EN 16603-32-08:2016-08

Space engineering – Materials

EN 16602-70:2016-10

Space product assurance – Materials, mechanical parts and processes

EN 16602-70-12:2016-10  
Space product assurance – Design rules for printed circuit boards

**Međunarodna normizacija**  
**ISO**

ISO 17851:2016-09  
Space systems – Space environment simulation for material tests – General principles and criteria

**53.020.20**                   **Dizalice**

**Europska normizacija**  
**CEN**

EN 13001-3-5:2016-08  
Cranes – General design – Part 3-5: Limit states and proof of competence of forged hooks

**Međunarodna normizacija**  
**ISO**

ISO 12480-3:2016-08  
Cranes – Safe use – Part 3: Tower cranes

ISO 4302:2016-10  
Cranes – Wind load assessment

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

**Europska normizacija**  
**CEN**

EN 13001-3-5:2016-08  
Cranes – General design – Part 3-5: Limit states and proof of competence of forged hooks

**53.040.10**                   **Prijenosne trake**

**Europska normizacija**  
**CEN**

CEN/TR 16829:2016-08  
Fire and explosion prevention and protection for bucket elevators

**53.060**                      **Industrijski prijevozni sustavi**

**Međunarodna normizacija**  
**ISO**

ISO 22915-7:2016-08  
Industrial trucks – Verification of stability – Part 7: Bidirectional and multidirectional trucks

**55.180.40 Kompleti, plombirani paketi za prijevoz**

**Europska normizacija**  
**CEN**

EN ISO 13355:2016-08  
Packaging – Complete, filled transport packages and unit loads – Vertical random vibration test  
(ISO 13355:2016)

**59.080.01 Tekstili općenito**

**Međunarodna normizacija**  
**ISO**

ISO 1144:2016-09  
Textiles – Universal system for designating linear density (Tex System)

**59.080.40 Naslojeni plošni tekstil**

**Europska normizacija**  
**CEN**

EN ISO 2286-1:2016-10  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 1: Methods for determination of length, width and net mass (ISO 2286-1:2016)

EN ISO 2286-2:2016-10  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO 2286-2:2016)

EN ISO 2286-3:2016-10  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 3: Method for determination of thickness (ISO 2286-3:2016)

**Međunarodna normizacija**  
**ISO**

ISO 2286-1:2016-09  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 1: Methods for determination of length, width and net mass

ISO 2286-2:2016-09  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate

ISO 2286-3:2016-09  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 3: Method for determination of thickness

**59.080.70                    Geotekstili**

**Europska normizacija**  
**CEN**

EN ISO 9863-1:2016-08  
Geosynthetics – Determination of thickness at specified pressures – Part 1: Single layers (ISO 9863-1:2016)

**59.140.30                    Koža i krvno**

**Europska normizacija**  
**CEN**

EN ISO 19076:2016-08  
Leather – Measurement of leather surface – Using electronic techniques (ISO 19076:2016)

**Međunarodna normizacija**  
**ISO**

ISO 19076:2016-08  
Leather – Measurement of leather surface – Using electronic techniques

**65.060.01                    Poljoprivredni strojevi i oprema općenito**

**Međunarodna normizacija**  
**ISO**

ISO 3767-1:2016-09 224,90 EUR  
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 1: Common symbols

ISO 3767-2:2016-09  
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 2: Symbols for agricultural tractors and machinery

**65.060.35                    Oprema za navodnjavanje i isušivanje**

**Međunarodna normizacija**  
**ISO**

ISO 15886-3 AMD 1:2016-09  
Agricultural irrigation equipment – Sprinklers – Part 3: Characterization of distribution and test methods; Amendment 1

**65.060.70                    Oprema za vrtlarstvo**

**Europska normizacija**  
**CENELEC**

EN 62841-3-9/AC:2016-09  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws (IEC 62841-3-9:2014/COR2:2016)

**Međunarodna normizacija**  
**ISO**

ISO 3767-3:2016-09

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 3: Symbols for powered lawn and garden equipment

**IEC**

IEC 62841-3-9 Corrigendum 2:2016-08

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 2

**65.060.80 Oprema za šumarstvo**

**Europska normizacija**  
**CENELEC**

EN 62841-3-9/AC:2016-09

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws (IEC 62841-3-9:2014/COR2:2016)

**Međunarodna normizacija**  
**ISO**

ISO 3767-4:2016-09

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 4: Symbols for forestry machinery

ISO 3767-5:2016-09

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 5: Symbols for manual portable forestry machines

**IEC**

IEC 62841-3-9 Corrigendum 2:2016-08

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 2

**67.100.30 Sir**

**Europska normizacija**  
**CEN**

EN ISO 11816-2:2016-08

Milk and milk products – Determination of alkaline phosphatase activity – Part 2: Fluorimetric method for cheese (ISO 11816-2:2016)

**Međunarodna normizacija**  
**ISO**

ISO 11816-2:2016-08

Milk and milk products – Determination of alkaline phosphatase activity – Part 2: Fluorimetric method for cheese

**67.180.10 Šećer i proizvodi od šećera**

**Međunarodna normizacija  
ISO**

ISO 12824:2016-09  
Royal jelly – Specifications

**67.200.10 Životinjske i biljne masti i ulja**

**Europska normizacija  
CEN**

EN ISO 11702:2016-08  
Animal and vegetable fats and oils – Enzymatic determination of total sterols content  
(ISO 11702:2016)

EN 14112:2016-09  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of oxidation stability  
(accelerated oxidation test)

**71.040.10 Kemijski laboratorijski. Laboratorijska oprema**

**Međunarodna normizacija  
ISO**

IWA 23:2016-09  
Interoperability of microfluidic devices – Guidelines for pitch spacing dimensions and initial device classification

**71.040.40 Kemijska analiza**

**Međunarodna normizacija  
ISO**

ISO 15471:2016-09  
Surface chemical analysis – Auger electron spectroscopy – Description of selected instrumental performance parameters

ISO 17973:2016-09  
Surface chemical analysis – Medium-resolution Auger electron spectrometers – Calibration of energy scales for elemental analysis

**71.100.50 Kemikalije za zaštitu drveta**

**Europska normizacija  
CEN**

EN 47:2016-08  
Wood preservatives – Determination of the toxic values against larvae of *Hylotrupes bajulus* (Linnaeus) – (Laboratory method)

EN 49-1:2016-06  
Wood preservatives – Determination of the protective effectiveness against *Anobium punctatum* (De Geer) by egg-laying and larval survival – Part 1: Application by surface treatment (Laboratory method)

EN 599-2:2016-10

Durability of wood and wood-based products – Efficacy of preventive wood preservatives as determined by biological tests – Part 2: Labelling

**71.100.60                  Eterična ulja**

**Međunarodna normizacija**

**ISO**

ISO 13171:2016-08

Essential oil of oregano [Origanum vulgare L. subsp. hirtum (Link) lets]

**75.020                  Crpenje i obrada nafte i prirodnoga plina**

**Međunarodna normizacija**

**ISO**

ISO 19008:2016-08

Standard cost coding system for oil and gas production and processing facilities

**75.060                  Prirodni plin**

**Europska normizacija**

**CEN**

EN ISO 6976:2016-08

Natural gas – Calculation of calorific values, density, relative density and Wobbe indices from composition (ISO 6976:2016)

**Međunarodna normizacija**

**ISO**

ISO 6976:2016-08

Natural gas – Calculation of calorific values, density, relative density and Wobbe indices from composition

**75.080                  Naftni proizvodi općenito**

**Europska normizacija**

**CEN**

EN ISO 3924:2016-10

Petroleum products – Determination of boiling range distribution – Gas chromatography method (ISO 3924:2016)

**Međunarodna normizacija**

**ISO**

ISO 3924:2016-09

Petroleum products – Determination of boiling range distribution – Gas chromatography method

**75.160.20                   Tkuća goriva**

**Europska normizacija**  
**CEN**

CEN/TR 16982:2016-09  
Diesel blends and fuels – Cold filterability issues

**75.160.40                   Biogoriva**

**Europska normizacija**  
**CEN**

EN ISO 18846:2016-09  
Solid biofuels – Determination of fines content in quantities of pellets (ISO 18846:2016)

EN ISO 18847:2016-09  
Solid biofuels – Determination of particle density of pellets and briquettes (ISO 18847:2016)

**Međunarodna normizacija**  
**ISO**

ISO 18846:2016-09  
Solid biofuels – Determination of fines content in samples of pellets

ISO 18847:2016-09  
Solid biofuels – Determination of particle density of pellets and briquettes

**75.180.01                   Oprema za naftnu industriju i industriju prirodnoga plina općenito**

**Međunarodna normizacija**  
**ISO**

ISO 14224:2016-09  
Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and maintenance data for equipment

**75.180.10                   Oprema za iskorištavanje i vađenje**

**Europska normizacija**  
**CEN**

EN ISO 19901-4:2016-08  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 4: Geotechnical and foundation design considerations (ISO 19901-4:2016)

**Međunarodna normizacija**  
**ISO**

ISO 18797-1:2016-09  
Petroleum, petrochemical and natural gas industries – External corrosion protection of risers by coatings and linings – Part 1: Elastomeric coating systems-polychloroprene or EPDM

## **75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom**

### **Europska normizacija**

**CEN**

EN 1765:2016-08

Rubber hose assemblies for oil suction and discharge services – Specification for the assemblies

EN 16657:2016-06

Tanks for the transport of dangerous goods – Transport tank equipment for overfill prevention devices for static tanks

EN ISO 20088-1:2016-10

Determination of the resistance to cryogenic spillage of insulation materials – Part 1: Liquid phases (ISO 20088-1:2016)

### **Međunarodna normizacija**

**ISO**

ISO 14224:2016-09

Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and maintenance data for equipment

ISO 20088-1:2016-09

Determination of the resistance to cryogenic spillage of insulation materials – Part 1: Liquid phase

## **77.040.10 Mehaničko ispitivanje metala**

### **Europska normizacija**

**CEN**

EN ISO 6508-1:2016-08

Metallic materials – Rockwell hardness test – Part 1: Test method (ISO 6508-1:2016)

### **Međunarodna normizacija**

**ISO**

ISO 6508-1:2016-08

Metallic materials – Rockwell hardness test – Part 1: Test method

ISO 27306:2016-09

Metallic materials – Method of constraint loss correction of CTOD fracture toughness for fracture assessment of steel components

## **77.120.20 Magnezij i magnezijeve legure**

### **Međunarodna normizacija**

**ISO**

ISO 16374:2016-09

Evaluation method for cleanliness of magnesium and magnesium alloy ingots

**77.140.50                    Proizvodi i poluproizvodi od plosnatog čelika**

**Međunarodna normizacija  
ISO**

ISO 13976:2016-08

Hot-rolled steel sheet in coils of structural quality and heavy thickness

ISO 14590:2016-08

Cold-reduced steel sheet of high tensile strength and low yield point with improved formability

**79.040                    Drvo, trupci i piljena građa**

**Europska normizacija  
CEN**

EN 350:2016-08

Durability of wood and wood-based products – Testing and classification of the durability to biological agents of wood and wood-based materials

EN 384:2016-08

Structural timber – Determination of characteristic values of mechanical properties and density

EN 14358:2016-06

Timber structures – Calculation and verification of characteristic values

**79.100                    Pluto i proizvodi od pluta**

**Međunarodna normizacija  
ISO**

ISO 2190:2016-10

Granulated cork – Determination of moisture content

**79.120.10                Strojevi za obradu drva**

**Europska normizacija  
CEN/CENELEC**

EN 50632-3-9:2016-09

Electric motor-operated tools – Dust measurement procedure – Part 3-9: Particular requirements for transportable mitre saws

**81.060.30                Tehnička keramika**

**Međunarodna normizacija  
ISO**

ISO 18610:2016-09

Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at ambient temperature in air atmospheric pressure – Determination of elastic properties by ultrasonic technique

**83.040.10 Lateks i sirova guma**

**Međunarodna normizacija  
ISO**

ISO 6235:2016-09

Rubber, raw – Determination of block polystyrene content – Ozonolysis method

**83.060 Guma**

**Međunarodna normizacija  
ISO**

ISO 1827:2016-10

Rubber, vulcanized or thermoplastic – Determination of shear modulus and adhesion to rigid plates – Quadruple-shear methods

**83.080.01 Plastika općenito**

**Međunarodna normizacija  
ISO**

ISO 18830:2016-08

Plastics – Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sandy sediment interface – Method by measuring the oxygen demand in closed respirometer

ISO 19679:2016-08

Plastics – Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface – Method by analysis of evolved carbon dioxide

ISO 11357-1:2016-09

Plastics – Differential scanning calorimetry (DSC) – Part 1: General principles

ISO 11469:2016-10

Plastics – Generic identification and marking of plastics products

**83.100 Pjenasti materijali**

**Europska normizacija  
CEN**

EN ISO 4590:2016-08

Rigid cellular plastics – Determination of the volume percentage of open cells and of closed cells (ISO 4590:2016)

**83.160.10 Gume za cestovna vozila**

**Međunarodna normizacija  
ISO**

ISO 18106:2016-08

Passenger car, commercial vehicle, truck and bus tyres – Methods for measuring snow grip performance – Loaded new tyres

**83.180 Adhezivi****Europska normizacija  
CEN**

EN 204:2016-08

Classification of thermoplastic wood adhesives for non-structural applications

EN 205:2016-08

Adhesives – Wood adhesives for non-structural applications – Determination of tensile shear strength of lap joints

EN 12765:2016-08

Classification of thermosetting wood adhesives for non-structural applications

**85.040 Celuloza****Međunarodna normizacija  
ISO**

ISO 9197:2016-08

Paper, board and pulps – Determination of water-soluble chlorides

ISO 2470-1:2016-09

Paper, board and pulps – Measurement of diffuse blue reflectance factor – Part 1: Indoor daylight conditions (ISO brightness)

**85.060 Papir i karton****Međunarodna normizacija  
ISO**

ISO 9197:2016-08

Paper, board and pulps – Determination of water-soluble chlorides

ISO 11476:2016-08

Paper and board – Determination of CIE whiteness, C/2° (indoor illumination conditions)

ISO 2470-1:2016-09

Paper, board and pulps – Measurement of diffuse blue reflectance factor – Part 1: Indoor daylight conditions (ISO brightness)

**87.040 Boje i lakovi****Europska normizacija  
CEN**

EN ISO 1514:2016-08

Paints and varnishes – Standard panels for testing (ISO 1514:2016)

EN ISO 3248:2016-08

Paints and varnishes – Determination of the effect of heat (ISO 3248:2016)

EN ISO 4623-2:2016-08

Paints and varnishes – Determination of resistance to filiform corrosion – Part 2: Aluminium substrates (ISO 4623-2:2016)

## **91.060.50                  Vrata i prozori**

### **Europska normizacija CEN**

EN 14351-1+A2:2016-09  
Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets

## **91.080.20                  Drvene konstrukcije**

### **Europska normizacija CEN**

EN 14358:2016-06  
Timber structures – Calculation and verification of characteristic values

### **Međunarodna normizacija ISO**

ISO 18402:2016-09  
Timber structures – Structural insulated panel roof construction – Test methods

## **91.090                  Vanjske konstrukcije**

### **Europska normizacija CEN**

EN 13241+A2:2016-09  
Industrial, commercial, garage doors and gates – Product standard, performance characteristics

## **91.100.30                  Beton i betonski proizvodi**

### **Europska normizacija CEN**

EN 12602:2016-09  
Prefabricated reinforced components of autoclaved aerated concrete

## **91.120.10                  Toplinska izolacija**

### **Europska normizacija CEN**

EN ISO 12572:2016-08  
Hygrothermal performance of building materials and products – Determination of water vapour transmission properties – Cup method (ISO 12572:2016)

CEN/TR 15232-2:2016-09  
Energy performance of buildings – Part 2: Accompanying TR prEN 15232-1:2015 – Modules M10-4,5,6,7,8,9,10

CEN/TR 16946-2:2016-09

Energy Performance of Buildings – Inspection of Building Automation, Controls and Technical Building Management – Part 2: Accompanying TR prEN 16946-1:2015 – Modules M10-11

CEN/TR 16947-2:2016-09

Building Management System – Part 2: Accompanying prEN 16947-1:2015 – Modules M10-12

### **91.120.20**

### **Akustika u zgradama. Zvučna izolacija**

#### **Europska normizacija**

**CEN**

EN ISO 10140-1:2016-08

Acoustics – Laboratory measurement of sound insulation of building elements – Part 1: Application rules for specific products (ISO 10140-1:2016)

#### **Međunarodna normizacija**

**ISO**

ISO 10140-1:2016-08

Acoustics – Laboratory measurement of sound insulation of building elements – Part 1: Application rules for specific products

### **91.140.10**

### **Sustavi centralnoga grijanja**

#### **Europska normizacija**

**CEN**

CEN/TR 12098-6:2016-08

Controls for heating systems – Part 6: Accompanying TR prEN 12098-1:2015 – Modules M3-5,6,7,8

CEN/TR 12098-7:2016-08

Controls for heating systems – Part 7: Accompanying TR prEN 12098-3:2015 – Modules M3-5,6,7,8

CEN/TR 12098-8:2016-08

Controls for heating systems – Part 8: Accompanying TR prEN 12098-5:2015 – Modules M3-5,6,7,8

EN 14037-1:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 1: Pre-fabricated ceiling mounted radiant panels for space heating – Technical specifications and requirements

EN 14037-2:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 2: Pre-fabricated ceiling mounted radiant panels for space heating – Test method for thermal output

EN 14037-3:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 3: Prefabricated ceiling mounted radiant panels for space heating – Rating method and evaluation of radiant thermal output

EN 14037-4:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 4: Pre-fabricated ceiling mounted radiant panels – Test method for cooling capacity

EN 14037-5:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 5: Open or closed heated ceiling surfaces – Test method for thermal output

#### **91.140.30                   Sustavi prozračivanja i klimatizacije**

**Europska normizacija**

**CEN**

CEN/TR 15500-2:2016-08

Energy Performance of Buildings – Control for heating, ventilating and air-conditioning applications – Part 2: Accompanying TR prEN 15500-1:2015 – Modules M3-5,M4-5,M5-5

EN ISO 15858:2016-08

UV-C Devices – Safety information – Permissible human exposure (ISO 15858:2016)

EN 14037-1:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 1: Pre-fabricated ceiling mounted radiant panels for space heating – Technical specifications and requirements

EN 14037-4:2016-09

Free hanging heating and cooling surfaces for water with a temperature below 120°C – Part 4: Pre-fabricated ceiling mounted radiant panels – Test method for cooling capacity

#### **91.140.50                   Sustavi opskrbe električnom energijom**

**Međunarodna normizacija**

**ISO**

IEC 60364-4-44 AMD 1 Corrigendum 1:2016-09

Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances; Amendment 1; Corrigendum 1

#### **91.140.70                   Sanitarne instalacije**

**Međunarodna normizacija**

**ISO**

IWA 24:2016-09

Non-sewered sanitation systems – General safety and performance requirements for design and testing

#### **93.020                   Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi**

**Europska normizacija**

**CEN**

EN ISO 22476-15:2016-08

Geotechnical investigation and testing – Field testing – Part 15: Measuring while drilling (ISO 22476-15:2016)

EN ISO 22477-10:2016-10

Geotechnical investigation and testing – Testing of geotechnical structures – Part 10: Testing of piles: rapid load testing (ISO 22477-10:2016)

**Međunarodna normizacija**  
**ISO**

ISO 22476-15:2016-08  
Geotechnical investigation and testing – Field testing – Part 15: Measuring while drilling

ISO 22477-10:2016-09  
Geotechnical investigation and testing – Testing of geotechnical structures – Part 10: Testing of piles: rapid load testing

**93.060 Tunelogradnja**

**Međunarodna normizacija**  
**ISO**

ISO 10815:2016-09  
Mechanical vibration – Measurement of vibration generated internally in railway tunnels by the passage of trains

**93.080.20 Materijali za gradnju cesta**

**Europska normizacija**  
**CEN**

EN 13108-6:2016-06  
Bituminous mixtures – Material specifications – Part 6: Mastic Asphalt

EN 13108-7:2016-06  
Bituminous mixtures – Material specifications – Part 7: Porous Asphalt

EN 13108-21:2016-06  
Bituminous mixtures – Material specifications – Part 21: Factory Production Control

**93.100 Gradnja željezničkih pruga**

**Europska normizacija**  
**CEN**

EN 16272-4:2016-09  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Test method for determining the acoustic performance – Part 4: Intrinsic characteristics – In situ values of sound diffraction under direct sound field

CEN/TR 16978:2016-10  
Railway applications – Infrastructure – Survey on isolated defects

**97.030 Kućanski električni uređaji općenito**

**Europska normizacija**  
**CENELEC**

CLC/TR 50417:2016-09  
Safety of household and similar electrical appliances – Interpretations related to European Standards in the EN 60335 series

**Međunarodna normizacija**  
**IEC**

IEC 62849:2016-08  
Performance evaluation methods of mobile household robots

IEC 60335-1 AMD 2 Corrigendum 1:2016-09  
Household and similar electrical appliances – Safety – Part 1: General requirements; Amendment 2; Corrigendum 1

**97.080                          Uređaji za čišćenje podova**

**Međunarodna normizacija**  
**IEC**

IEC 62885-2:2016-08  
Surface cleaning appliances – Part 2: Dry vacuum cleaners for household or similar use – Methods for measuring the performance

**97.120                          Automatsko upravljanje za kućansku upotrebu**

**Europska normizacija**  
**CEN**

CEN/TR 12098-6:2016-08  
Controls for heating systems – Part 6: Accompanying TR prEN 12098-1:2015 – Modules M3-5,6,7,8

CEN/TR 12098-7:2016-08  
Controls for heating systems – Part 7: Accompanying TR prEN 12098-3:2015 – Modules M3-5,6,7,8

CEN/TR 12098-8:2016-08  
Controls for heating systems – Part 8: Accompanying TR prEN 12098-5:2015 – Modules M3-5,6,7,8

CEN/TR 15500-2:2016-08  
Energy Performance of Buildings – Control for heating, ventilating and air-conditioning applications – Part 2: Accompanying TR prEN 15500-1:2015 – Modules M3-5,M4-5,M5-5

EN 60730-1:2016-07  
Automatic electrical controls – Part 1: General requirements (IEC 60730-1:2013, modified + COR1:2014)

CEN/TR 15232-2:2016-09  
Energy performance of buildings – Part 2: Accompanying TR prEN 15232-1:2015 – Modules M10-4,5,6,7,8,9,10

CEN/TR 16946-2:2016-09  
Energy Performance of Buildings – Inspection of Building Automation, Controls and Technical Building Management – Part 2: Accompanying TR prEN 16946-1:2015 – Modules M10-11

CEN/TR 16947-2:2016-09  
Building Management System – Part 2: Accompanying prEN 16947-1:2015 – Modules M10-12

**Međunarodna normizacija**  
**IEC**

IEC 62820-1-1:2016-09  
Building intercom systems – Part 1-1: System requirements – General

**97.130.20 Trgovački rashladni uređaji**

**Europska normizacija**  
**CEN**

EN 16825:2016-08  
Refrigerated storage cabinets and counters for professional use – Classification, requirements and test conditions

**97.140 Namještaj**

**Europska normizacija**  
**CEN**

EN 1729-1/AC:2016-08  
Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions

**97.150 Netekstilni podni prekrivači**

**Europska normizacija**  
**CEN**

EN 1815:2016-09  
Resilient and laminate floor coverings – Assessment of static electrical propensity

**97.180 Razna kućanska i gospodarska oprema**

**Međunarodna normizacija**  
**ISO**

ISO 9177-1:2016-10  
Mechanical pencils for technical drawings – Part 1: Classification, dimensions, performance requirements and testing

**97.200.30 Oprema za kampiranje i kampove**

**Međunarodna normizacija**  
**ISO**

ISO 23537-1:2016-10  
Requirements for sleeping bags – Part 1: Thermal and dimensional requirements

ISO 23537-2:2016-10  
Requirements for sleeping bags – Part 2: Fabric and material properties

**97.220.40**

**Oprema za sportove na otvorenom i sportove na vodi**

**Europska normizacija**

**CEN**

EN 892+A1:2016-08

Mountaineering equipment – Dynamic mountaineering ropes – Safety requirements and test methods