

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

1/2017 siječanj, 2017.

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 6, Papir, karton i pulpe**

#### **HRN EN ISO 12625-4:2017 en pr**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 4. dio: Određivanje vlačne čvrstoće, izduženje kod maksimalne sile i utrošene energije pri kidanju (ISO 12625-4:2016; EN ISO 12625-4:2016)

Tissue paper and tissue products – Part 4: Determination of tensile strength, stretch at maximum force and tensile energy absorption (ISO 12625-4:2016; EN ISO 12625-4:2016)

#### **HRN EN ISO 12625-5:2017 en pr**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 5. dio: Određivanje prekidne čvrstoće u mokrom stanju (ISO 12625-5:2016; EN ISO 12625-5:2016)

Tissue paper and tissue products – Part 5: Determination of wet tensile strength (ISO 12625-5:2016; EN ISO 12625-5:2016)

#### **HRN EN ISO 12625-6:2017 en pr**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 6. dio: Određivanje gramature (ISO 12625-6:2016; EN ISO 12625-6:2016)

Tissue paper and tissue products – Part 6: Determination of grammage (ISO 12625-6:2016; EN ISO 12625-6:2016)

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

#### **HRN ISO 3006:2017 en pr**

Cestovna vozila – Kotači osobnih automobila za cestovnu uporabu – Metode ispitivanja (ISO 3006:2015)

Road vehicles – Passenger car wheels for road use – Test methods (ISO 3006:2015)

#### **HRN ISO 3917:2017 en pr**

Cestovna vozila – Sigurnosna stakla – Metode ispitivanja otpornosti na zračenje, visoku temperaturu, vlagu, vatru i na simulirane vremenske uvjete (ISO 3917:2016)

Road vehicles – Safety glazing materials – Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering (ISO 3917:2016)

#### **HRN ISO 5775-2:2017 en pr**

Gume i naplatci za bicikle – 2. dio: Naplatci (ISO 5775-2:2015)

Bicycle tyres and rims – Part 2: Rims (ISO 5775-2:2015)

**HRN ISO 7637-1:2017 en pr**

Cestovna vozila – Električne smetnje koje se šire vođenjem i sprezanjem – 1. dio: Definicije i općenito (ISO 7637-1:2015)

Road vehicles – Electrical disturbances from conduction and coupling – Part 1: Definitions and general considerations (ISO 7637-1:2015)

**HRN ISO 10231:2005/A1:2017 en pr**

Gume za motocikle – Metode ispitivanja za provjeru sposobnosti guma (ISO 10231:2003/Amd 1:2015)

Motorcycle tyres – Test methods for verifying tyre capabilities (ISO 10231:2003/Amd 1:2015)

**HRN ISO 10571:2017 en pr**

Gume za pokretnе dizalice i slične posebne strojeve (ISO 10571:2016)

Tyres for mobile cranes and similar specialized machines (ISO 10571:2016)

**HRN ISO 11898-1:2017 en pr**

Cestovna vozila – Regulator mrežnog područja (CAN) – 1. dio: Sloj veze između podataka i fizička signalizacija (ISO 11898-1:2015)

Road vehicles – Controller area network (CAN) – Part 1: Data link layer and physical signalling (ISO 11898-1:2015)

**HRN ISO 12103-1:2017 en pr**

Cestovna vozila – Ispitni onečišćivači za ocjenjivanje filtra – 1. dio: Ispitna prašina „Arizona“ (ISO 12103-1:2016)

Road vehicles – Test contaminants for filter evaluation – Part 1: Arizona test dust (ISO 12103-1:2016)

**HRN ISO 15031-3:2017 en pr**

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 15031-3:2016)

Road vehicles – Communication between vehicle and external equipment for emissions-related diagnostics – Part 3: Diagnostic connector and related electrical circuits: Specification and use (ISO 15031-3:2016)

**HRN ISO 15500-1:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 1. dio: Opći zahtjevi i definicije (ISO 15500-1:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 1: General requirements and definitions (ISO 15500-1:2015)

**HRN ISO 15500-7:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 7. dio: Ubrizgač plina (ISO 15500-7:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 7: Gas injector (ISO 15500-7:2015)

**HRN ISO 15500-8:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 8. dio: Tlakomjer (ISO 15500-8:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 8: Pressure indicator (ISO 15500-8:2015)

**HRN ISO 15500-10:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 10. dio: Regulator protoka (ISO 15500-10:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 10: Gas-flow adjuster (ISO 15500-10:2015)

**HRN ISO 15500-11:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 11. dio: Mješač plin/zrak (ISO 15500-11:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 11: Gas/air mixer (ISO 15500-11:2015)

**HRN ISO 15500-12:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 12. dio:

Sigurnosni ventil za osiguranje od previsokog tlaka (ISO 15500-12:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 12: Pressure relief valve (PRV) (ISO 15500-12:2015)

**HRN ISO 15500-15:2017 en pr**

Cestovna vozila – Sastavni dijelovi sustava za stlačeni prirodni plin (SPP) kao gorivo – 15. dio:

Plinonepropusno kućište i cijevi za prozračivanje (ISO 15500-15:2015)

Road vehicles – Compressed natural gas (CNG) fuel system components – Part 15: Gas-tight housing and ventilation hose (ISO 15500-15:2015)

**HRN EN ISO 17409:2017 en pr**

Cestovna vozila na električni pogon – Priklučak na vanjsko električno napajanje – Sigurnosni zahtjevi (ISO 17409:2015, Ispravljena verzija 2015-12-15; EN ISO 17409:2017)

Electrically propelled road vehicles – Connection to an external electric power supply – Safety requirements (ISO 17409:2015, Corrected version 2015-12-15; EN ISO 17409:2017)

**HNZ/TO 23, Traktori i strojevi za poljoprivredu i šumarstvo****HRN EN 609-1:2017 en pr**

Poljoprivredna i šumarska mehanizacija – Sigurnost cjepača – 1. dio: Klinasti cjepači (EN 609-1:2017)

Agricultural and forestry machinery – Safety of log splitters – Part 1: Wedge splitters (EN 609-1:2017)

**HRN EN ISO 5395-2:2013/A1:2017 en pr**

Oprema za vrtove i parkove – Sigurnosni zahtjevi za kosilice trave pogonjene motorom s unutrašnjim izgaranjem – 2. dio: Kosilice trave s rukovateljem koji hoda – Amandman 1: Sigurnosni prekidač, rezni dio alata, tlačna crijeva (ISO 5395-2:2013/Amd 1:2016; EN ISO 5395-2:2013/A1:2016)

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers – Amendment 1: OPC, cutting means, pressurized hoses (ISO 5395-2:2013/Amd 1:2016; EN ISO 5395-2:2013/A1:2016)

**HNZ/TO 34, Poljoprivredni i prehrambeni proizvodi****HRN ISO 1871:2017 en pr**

Poljoprivredni i prehrambeni proizvodi – Opće upute za određivanje dušika Kjeldahlovom metodom (ISO 1871:2009)

Food and feed products – General guidelines for the determination of nitrogen by the Kjeldahl method (ISO 1871:2009)

**HRN ISO 10727:2017 en pr**

Čaj i instant-čaj u krutome obliku – Određivanje sadržaja kofeina – Metoda tekuće kromatografije visokog učinka (ISO 10727:2002)

Tea and instant tea in solid form – Determination of caffeine content – Method using high-performance liquid chromatography (ISO 10727:2002)

**HNZ/TO 37, Terminologija****HRN EN ISO 2603:2017 en pr**

Simultano prevođenje – Ugrađene kabine – Zahtjevi (ISO 2603:2016; EN ISO 2603:2016)

Simultaneous interpreting – Permanent booths – Requirements (ISO 2603:2016; EN ISO 2603:2016)

**HRN EN ISO 4043:2017 en pr**

Simultano prevođenje – Pokretne kabine – Zahtjevi (ISO 4043:2016; EN ISO 4043:2016)

Simultaneous interpreting – Mobile booths – Requirements (ISO 4043:2016; EN ISO 4043:2016)

**HRN EN ISO 20109:2017 en pr**

Simultano prevođenje – Oprema – Zahtjevi (ISO 20109:2016; EN ISO 20109:2016)

Simultaneous interpreting – Equipment – Requirements (ISO 20109:2016; EN ISO 20109:2016)

**HNZ/TO 44, Zavarivanje i srodnici postupci****HRN EN ISO 10675-1:2017 en pr**

Nerazorno ispitivanje zavarenih spojeva – Razine prihvatljivosti za radiografsko ispitivanje – 1. dio: Čelik, nikal, titan i njihove legure (ISO 10675-1:2016; EN ISO 10675-1:2016)

Non-destructive testing of welds – Acceptance levels for radiographic testing – Part 1: Steel, nickel, titanium and their alloys (ISO 10675-1:2016; EN ISO 10675-1:2016)

**HRN EN ISO 17635:2017 en pr**

Nerazorno ispitivanje zavara – Opća pravila za metalne materijale (ISO 17635:2016; EN ISO 17635:2016)

Non-destructive testing of welds – General rules for metallic materials (ISO 17635:2016; EN ISO 17635:2016)

**HRN EN ISO 17637:2017 en pr**

Nerazorno ispitivanje zavara – Vizualno ispitivanje zavarenih spojeva nastalih taljenjem (ISO 17637:2016; EN ISO 17637:2016)

Non-destructive testing of welds – Visual testing of fusion-welded joints (ISO 17637:2016; EN ISO 17637:2016)

**HNZ/TO 69, Primjena statističkih metoda****HRN ISO 8422:2017 en pr**

Planovi sekvenčnog uzorkovanja pri pregledima prema obilježjima (ISO 8422:2006)

Sequential sampling plans for inspection by attributes (ISO 8422:2006)

**HRN ISO 13528:2017 en pr**

Statističke metode pri ispitivanju sposobnosti putem međulaboratorijske usporedbe (ISO 13528:2015)

Statistical methods for use in proficiency testing by interlaboratory comparison (ISO 13528:2015)

**HRN ISO 18414:2017 en pr**

Postupci uzorkovanja za prihvaćanje po obilježjima – Sustav uzorkovanja za prihvaćanje bez ijedne greške ("accept-zero") koji se temelji na kreditnom načelu za nadzor izlazne kvalitete (ISO 18414:2006)

Acceptance sampling procedures by attributes – Accept-zero sampling system based on credit principle for controlling outgoing quality (ISO 18414:2006)

**HRN ISO 21247:2017 en pr**

Složeni sustavi uzorkovanja za prihvaćanje bez ijedne greške ("accept-zero") i postupci nadzora procesa za prihvaćanje proizvoda (ISO 21247:2005)

Combined accept-zero sampling systems and process control procedures for product acceptance (ISO 21247:2005)

**HRN ISO 22514-4:2017 en pr**

Statističke metode pri upravljanju procesima – Sposobnost i izvedba – 4. dio: Procjene sposobnosti procesa i mjere izvedbe (ISO 22514-4:2016)

Statistical methods in process management – Capability and performance – Part 4: Process capability estimates and performance measures (ISO 22514-4:2016)

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

**HRI CEN/TR 196-4:2017 en pr**

Metode ispitivanja cementa – 4. dio: Kvantitativno određivanje sastojaka (CEN/TR 196-4:2007)  
Methods of testing cement – Part 4: Quantitative determination of constituents (CEN/TR 196-4:2007)

**HRI CEN/TR 14245:2017 en pr**

Cement – Smjernice za primjenu norme EN 197-2 "Vrednovanje sukladnosti" (CEN/TR 14245:2014)  
Cement – Guidelines for the application of EN 197-2 Conformity Evaluation (CEN/TR 14245:2014)

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

**HRN EN 16147:2017 en pr**

Dizalice topline s kompresorima na električni pogon – Ispitivanje, ocjenjivanje značajka i zahtjevi za označivanje uređaja za pripremu potrošne tople vode (EN 16147:2017)  
Heat pumps with electrically driven compressors – Testing, performance rating and requirements for marking of domestic hot water units (EN 16147:2017)

**HRN EN 16855-1:2017 en pr**

Rashladne komore (walk-in) – Definicije, radne značajke toplinske izolacije i metode ispitivanja – 1. dio: Tvornički pripremljeni elementi rashladnih komora (EN 16855-1:2017)  
Walk-in cold rooms – Definition, thermal insulation performance and test methods – Part 1: Prefabricated cold room kits (EN 16855-1:2017)

**HRN EN 16901:2017 en pr**

Zamrzivači za sladoled – Razredba, zahtjevi i uvjeti ispitivanja (EN 16901:2016)  
Ice-cream freezers – Classification, requirements and test conditions (EN 16901:2016)

## **HN/T 108, Mehaničke vibracije i udari**

**HRI CEN/TR 1030-2:2017 en pr**

Vibracije ruke – Smjernice za smanjenje rizika uslijed vibracija – 2. dio: Organizacijske mjere na radnom mjestu (CEN/TR 1030-2:2016)  
Hand-arm vibration – Guidelines for vibration hazards reduction – Part 2: Management measures at the workplace (CEN/TR 1030-2:2016)

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

**HRN ISO 20773:2017 en pr**

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 20773:2013)  
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 (ISO 20773:2013)

**HRN ISO 20774:2017 en pr**

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 (ISO 20774:2013)  
Cigarettes – Determination of carbon monoxide in sidestream smoke – Method using a routine analytical linear smoking machine equipped with a fishtail chimney (ISO 20774:2013)

## **HN/T/130, Grafička tehnologija**

**HRN ISO 12647-6:2014/A1:2017 en pr**

Grafička tehnologija – Kontrola procesa pri izradi kolornih rasterskih separacija; probnih otisaka i proizvodnih otisaka – 6. dio: Fleksografski tisk (ISO 12647-6:2012/Amd 1:2015)

Graphic technology – Process control for the production of half-tone colour separations, proofs and production prints – Part 6: Flexographic printing (ISO 12647-6:2012/Amd 1:2015)

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

**HRN ISO 8157:2017 en pr**

Gnojiva i poboljšivači tla – Terminološki rječnik (ISO 8157:2015)

Fertilizers and soil conditioners – Vocabulary (ISO 8157:2015)

**HRN EN 15961:2017 en pr**

Gnojiva – Ekstrakcija vodotopivog kalcija, magnezija, natrija i sumpora u obliku sulfata (EN 15961:2017)

Fertilizers – Extraction of water-soluble calcium, magnesium, sodium and sulfur in the form of sulfates (EN 15961:2017)

## **HN/T/135, Nerazorna ispitivanja**

**HRN EN ISO 9934-1:2017 en pr**

Nerazorno ispitivanje – Ispitivanje magnetnim česticama – 1. dio: Opća načela (ISO 9934-1:2016; EN ISO 9934-1:2016)

Non-destructive testing – Magnetic particle testing – Part 1: General principles (ISO 9934-1:2016; EN ISO 9934-1:2016)

**HRI CEN/TR 15589:2017 en pr**

Nerazorno ispitivanje – Pravila za provođenje potvrđivanja NDT osoblja od priznate organizacije, koja ima status treće strane, prema uvjetima Direktive 97/23/EC (CEN/TR 15589:2014)

Non destructive testing – Code of practice for the approval of NDT personnel by recognised third party organisations under the provisions of Directive 97/23/EC (CEN/TR 15589:2014)

## **HN/T/136, Namještaj**

**HRS CEN/TS 16611:2017 en pr**

Namještaj – Procjena otpornosti površine na mikroogrebotine (CEN/TS 16611:2016)

Furniture – Assessment of the surface resistance to microscratching (CEN/TS 16611:2016)

## **HN/T/138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

**HRN EN 1453-1:2017 en pr**

Plastični cijevni sustavi s cijevima sa strukturiranim stijenkama za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar zgrada – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi i sustav (EN 1453-1:2017)

Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes and the system (EN 1453-1:2017)

**HRS CEN/TS 14758-2:2017 en pr**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen s mineralnim modifikatorom(ima) (PP-MD) – 2. dio: Smjernice za ocjenu sukladnosti (CEN/TS 14758-2:2016)

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifiers (PP-MD) – Part 2: Guidance for the assessment of conformity (CEN/TS 14758-2:2016)

## **HN/T 145, Grafički simboli**

**HRN ISO 7001:2008/A2:2017 en pr**

Grafički simboli – Simboli javnog obavješćivanja (ISO 7001:2007/Amd 2:2015)

Graphical symbols – Public information symbols (ISO 7001:2007/Amd 2:2015)

**HRN ISO 7001:2008/A3:2017 en pr**

Grafički simboli – Simboli javnog obavješćivanja (ISO 7001:2007/Amd 3:2016)

Graphical symbols – Public information symbols (ISO 7001:2007/Amd 3:2016)

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

**HRN EN 14789:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje volumne koncentracije kisika – Standardna referentna metoda: Paramagnetizam (EN 14789:2017)

Stationary source emissions – Determination of volume concentration of oxygen – Standard reference method: Paramagnetism (EN 14789:2017)

**HRN EN 14790:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje vodene pare u izlaznoj cijevi – Standardna referentna metoda (EN 14790:2017)

Stationary source emissions – Determination of the water vapour in ducts – Standard reference method (EN 14790:2017)

**HRN EN 14791:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje masene koncentracije sumpornih oksida – Standardna referentna metoda (EN 14791:2017)

Stationary source emissions – Determination of mass concentration of sulphur oxides – Standard reference method (EN 14791:2017)

**HRN EN 14792:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje masene koncentracije dušikovih oksida – Standardna referentna metoda: Kemiluminescencija (EN 14792:2017)

Stationary source emissions – Determination of mass concentration of nitrogen oxides – Standard reference method: chemiluminescence (EN 14792:2017)

**HRN EN 14793:2017 en pr**

Emisije iz nepokretnih izvora – Dokazivanje ekvivalencije alternativne metode s referentnom metodom (EN 14793:2017)

Stationary source emissions – Demonstration of equivalence of an alternative method with a reference method (EN 14793:2017)

**HRN EN 15058:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje masene koncentracije ugljikova monoksida – Standardna referentna metoda: Nedisperzivna infracrvena spektrometrija (EN 15058:2017)

Stationary source emissions – Determination of the mass concentration of carbon monoxide – Standard reference method: non-dispersive infrared spectrometry (EN 15058:2017)

**HRN EN 15267-4:2017 en pr**

Kvaliteta zraka – Certifikacija automatskih mjernih sustava – 4. dio: Kriteriji izvedbe i postupci ispitivanja automatskih mjernih sustava za povremena mjerena emisija iz nepokretnih izvora (EN 15267-4:2017)

Air quality – Certification of automated measuring systems – Part 4: Performance criteria and test procedures for automated measuring systems for periodic measurements of emissions from stationary sources (EN 15267-4:2017)

**HRS CEN/TS 17021:2017 en pr**

Emisije iz nepokretnih izvora – Određivanje masene koncentracije sumpornog dioksida instrumentalnim tehnikama (CEN/TS 17021:2017)

Stationary source emissions – Determination of the mass concentration of sulphur dioxide by instrumental techniques (CEN/TS 17021:2017)

**HNZ/TO 163, Toplinska izolacija****HRN EN 16809-2:2017 en pr**

Toplinsko-izolacijski proizvodi za zgrade – Na mjestu primjene oblikovani proizvodi od nevezanih ekspandiranih polistirenskih zrna i vezanih ekspandiranih polistirenskih zrna – 2. dio: Specifikacija za vezane i nevezane proizvode nakon ugradnje (EN 16809-2:2017)

Thermal insulation products of buildings – In-situ formed products from loose-fill expanded polystyrene (EPS) beads and bonded expanded polystyrene beads – Part 2: Specification for the bonded and loose-fill products after installation (EN 16809-2:2017)

**HNZ/TO 167, Metalne konstrukcije****HRI CEN/TR 17052:2017 en pr**

Smjernice za primjenu norme EN 1090-1:2009+A1:2011, Izvedba čeličnih i aluminijskih konstrukcija – 1. dio: Zahtjevi za ocjenjivanje sukladnosti konstrukcijskih komponenata (CEN/TR 17052:2017)

Guidelines on implementing EN 1090-1:2009+A1:2011, Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components (CEN/TR 17052:2017)

**HNZ/TO 181, Sigurnost igračaka i proizvodi za djecu****HRN EN 71-12:2017 en pr**

Sigurnost igračaka – 12. dio: N-nitrozamini i prekursori N-nitrozamina (EN 71-12:2016)

Safety of toys – Part 12: N-Nitrosamines and N-nitrosatable substances (EN 71-12:2016)

**HRN EN 12868:2017 en pr**

Proizvodi za dojenčad i malu djecu – Metode za određivanje sadržaja oslobođenih N-nitrozamina i prekursora N-nitrozamina iz duda za boćicu i duda varalica izrađenih od elastomera ili gume (EN 12868:2017)

Child use and care articles – Methods for determining the release of N-Nitrosamines and N-Nitrosatable substances from elastomer or rubber teats and soothers (EN 12868:2017)

**HRN EN 16120:2017 en pr**

Proizvodi za dojenčad i malu djecu – Sjedalica koja se pričvršćuje za stolicu

(EN 16120:2012+A2:2016)

Child use and care articles – Chair mounted seat (EN 16120:2012+A2:2016)

**HRI CEN/TR 16411:2017 en pr**

Proizvodi za dojenčad i malu djecu – Kompilacija tumačenja norma iz područja rada CEN/TC 252 za 2014. godinu (CEN/TR 16411:2014)

Child use and care articles – 2014 compiled interpretations of CEN/TC 252 standards (CEN/TR 16411:2014)

**HNZ/TO 211, Geoinformacije/Geomatika****HRN EN ISO 19110:2017 en pr**

Geoinformacije – Metodologija za izradu kataloga objekata (ISO 19110:2016; EN ISO 19110:2016)

Graphic information – Methodology for feature cataloguing (ISO 19110:2016; EN ISO 19110:2016)

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

### **HRN EN ISO 21549-7:2017 en pr**

Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 7. dio: Podaci o propisanim lijekovima (ISO 21549-7:2016; EN ISO 21549-7:2016)

Health informatics – Patient healthcare data – Part 7: Medication data (ISO 21549-7:2016; EN ISO 21549-7:2016)

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

### **HRS CEN/TS 15398:2017 en pr**

Elastične, tekstilne i laminatne podne obloge – Standardni simboli za podne obloge – Dopunski element (CEN/TS 15398:2016)

Resilient, textile and laminate floor coverings – Floor covering standard symbols – Complementary element (CEN/TS 15398:2016)

## **HN/T/TO 502, Plinski uređaji**

### **HRN EN 15502-2-1:2017 en pr**

Plinski kotlovi za centralno grijanje – Dio 2-1: Specifična norma za uređaje tipa C i uređaje tipa B2, B3 i B5 nizivne ulazne topline koja ne prelazi 1 000 kW (EN 15502-2-1:2012+A1:2016)

Gas-fired central heating boilers – Part 2-1: Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1 000 kW (EN 15502-2-1:2012+A1:2016)

## **HN/T/TO 503, Metalni materijali**

### **HRI CEN/TR 10317:2017 en pr**

Europski potvrđeni referentni materijali (EURONORM-CRMs) za određivanje kemijskog sastava proizvoda iz željeznog lijeva i čelika pod pokroviteljstvom europskog odbora za normizaciju željeznog lijeva i čelika (ECIIS) (CEN/TR 10317:2014)

European certified reference materials (EURONORM-CRMs) for the determination of the chemical composition of iron and steel products prepared under the auspices of the European Committee for Iron and Steel Standardization (ECIIS) (CEN/TR 10317:2014)

## **HN/T/TO 504, Korozija i zaštita metala i legura**

### **HRN EN ISO 12696:2017 en pr**

Katodna zaštita čelika u betonu (ISO 12696:2016; EN ISO 12696:2016)

Cathodic protection of steel in concrete (ISO 12696:2016; EN ISO 12696:2016)

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

### **HRN EN ISO 17776:2017 en pr**

Industrija nafte i prirodnoga plina – Odobalna proizvodna postrojenja – Upravljanje opasnošću od velikih nezgoda prilikom projektiranja novih postrojenja (ISO 17776:2016; EN ISO 17776:2016)

Petroleum and natural gas industries – Offshore production installations – Major Accident hazard management during the design of new installations (ISO 17776:2016; EN ISO 17776:2016)

## **HN/T/TO 513, Mjerne jedinice i mjerila**

### **HRN ISO 6420:2017 en pr**

Hidrometrija – Oprema za određivanje položaja hidrometrijskih plovila (ISO 6420:2016)

Hydrometry – Position fixing equipment for hydrometric boats (ISO 6420:2016)

**HRN ISO 15901-1:2017 en pr**

Procjena raspodjele veličine pora i poroznosti krutih materijala živinim porozimetrom i plinskom adsorpcijom – 1. dio: Živin porozimetar (ISO 15901-1:2016)

Evaluation of pore size distribution and porosity of solid materials by mercury porosimetry and gas adsorption – Part 1: Mercury porosimetry (ISO 15901-1:2016)

**HN/T 525, *Hidroizolacijski materijali i proizvodi za pokrivanje krovova*****HRN EN 490:2017 en pr**

Betonski crijepljivi i pomoći dijelovi za pokrivanje krovova i oblaganje zidova – Specifikacije proizvoda (EN 490:2011+A1:2017)

Concrete roofing tiles and fittings for roof covering and wall cladding – Product specifications (EN 490:2011+A1:2017)

**HN/T 528, *Oprema za željeznice*****HRN EN 13146-10:2017 en pr**

Željeznički sustav – Željeznički gornji ustroj – Metode ispitivanja za kolosiječni pričvršni pribor – 10. dio: Ispitivanje pod opterećenjem otpora na izvlačenje (EN 13146-10:2017)

Railway applications – Track – Test methods for fastening systems – Part 10: Proof load test for pull-out resistance (EN 13146-10:2017)

**HRN EN 15551:2017 en pr**

Željeznički sustav – Željeznička vozila – Odbojnici (EN 15551:2017)

Railway applications – Railway rolling stock – Buffers (EN 15551:2017)

**HRN EN 16584-1:2017 en pr**

Željeznički sustav – Konstrukcije namijenjene uporabi osoba smanjene pokretljivost – Opći zahtjevi – 1. dio: Kontrast (EN 16584-1:2017)

Railway applications – Design for PRM Use – General requirements – Part 1: Contrast (EN 16584-1:2017)

**HRN EN 16584-2:2017 en pr**

Željeznički sustav – Konstrukcije namijenjene uporabi osoba smanjene pokretljivosti – Opći zahtjevi – 2. dio: Obavijesti (EN 16584-2:2017)

Railway applications – Design for PRM Use: General Requirements – Part 2: Information (EN 16584-2:2017)

**HRN EN 16584-3:2017 en pr**

Željeznički sustav – Konstrukcije namijenjene uporabi osoba smanjene pokretljivosti – Opći zahtjevi – 3. dio: Vizualne i protuklizne značajke (EN 16584-3:2017)

Railway applications – Design for PRM use – General requirements – Part 3: Optical and friction characteristics (EN 16584-3:2017)

**HRN EN 16704-1:2017 en pr**

Željeznički sustav – Željeznički gornji ustroj – Sigurnosna zaštita na kolosijeku tijekom radova – 1. dio: Sigurnosni rizici i zajednička načela za zaštitu stabilnih i pokretnih radilišta (EN 16704-1:2016)

Railway applications – Track – Safety protection on the track during work – Part 1: Railway risks and common principles for protection of fixed and mobile work sites (EN 16704-1:2016)

**HN/T 531, *Plastika i guma*****HRN EN ISO 4641:2017 en pr**

Gumena crijeva i crijevni sklopovi za usisavanje i ispuštanje vode – Specifikacija (ISO 4641:2016; EN ISO 4641:2016)

Rubber hoses and hose assemblies for water suction and discharge – Specification (ISO 4641:2016; EN ISO 4641:2016)

**HRN EN ISO 25137-1:2017 en pr**

Plastika – Sulfonski polimerni materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označivanja i osnova za specifikacije (ISO 25137-1:2009; EN ISO 25137-1:2017)  
Plastics – Sulfone polymer moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 25137-1:2009; EN ISO 25137-1:2017)

**HRN EN ISO 25137-2:2017 en pr**

Plastika – Sulfonski polimerni materijali za injekcijsko prešanje i ekstrudiranje – 2. dio: Priprema ispitnih uzoraka i određivanje svojstava (ISO 25137-2:2009; EN ISO 25137-2:2017)  
Plastics – Sulfone polymer moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 25137-2:2009; EN ISO 25137-2:2017)

**HZN/TO 536, Vrata, prozori i staklo u graditeljstvu****HRN EN 12207:2017 en pr**

Prozori i vrata – Propusnost zraka – Razredba (EN 12207:2016)  
Windows and doors – Air permeability – Classification (EN 12207:2016)

**HZN/TO 537, Tehnički crteži, dimenzijske i geometrijske specifikacije, opis proizvoda i odgovarajuća dokumentacija****HRN EN ISO 16610-28:2017 en pr**

Geometrijske specifikacije proizvoda (GSP) – Filtriranje – 28. dio: Profilni filtri: Krajnji učinci (ISO 16610-28:2016; EN ISO 16610-28:2016)  
Geometrical product specifications (GPS) – Filtration – Part 28: Profile filters: End effects (ISO 16610-28:2016; EN ISO 16610-28:2016)

**HRN EN ISO 16610-30:2017 en pr**

Geometrijske specifikacije proizvoda (GSP) – Filtriranje – 30. dio: Robusni profilni filtri: Osnovni pojmovi (ISO 16610-30:2015; EN ISO 16610-30:2017)  
Geometrical product specifications (GPS) – Filtration – Part 30: Robust profile filters: Basic concepts (ISO 16610-30:2015; EN ISO 16610-30:2017)

**HZN/TO 543, Poštanske usluge****HRS CEN/TS 14014:2017 en pr**

Poštanske usluge – Hibridna pošta – Definiranje automatskog rukovanja pismima pomoću softverskog XML jezika (CEN/TS 14014:2015)  
Postal services – Hybrid mail – XML definition of encapsulation of letters for automated postal handling (CEN/TS 14014:2015)

**HRN EN 14534:2017 en pr**

Poštanske usluge – Kvaliteta usluga – Mjerenje vremena prijenosa pošiljaka u velikim količinama od prijama do uručenja (EN 14534:2016)  
Postal services – Quality of service – Measurement of the transit time of end-to-end services for bulk mail (EN 14534:2016)

**HRN EN 14534:2017/Ispr.1:2017 en pr**

Poštanske usluge – Kvaliteta usluga – Mjerenje vremena prijenosa pošiljaka u velikim količinama od prijama do uručenja (EN 14534:2016/AC:2017)  
Postal services – Quality of service – Measurement of the transit time of end-to-end services for bulk mail (EN 14534:2016/AC:2017)

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

### **HRN EN ISO 10993-6:2017 en pr**

Biološka procjena medicinskih proizvoda – 6. dio: Ispitivanja lokalnog djelovanja nakon implantacije (ISO 10993-6:2016; EN ISO 10993-6:2016)

Biological evaluation of medical devices – Part 6: Tests for local effects after implantation (ISO 10993-6:2016; EN ISO 10993-6:2016)

### **HRN EN ISO 13485:2016/Ispr.1:2017 en pr**

Medicinski uređaji – Sustavi upravljanja kvalitetom – Zahtjevi za zakonsku namjenu (EN ISO 13485:2016/AC:2016)

Medical devices – Quality management systems – Requirements for regulatory purposes (EN ISO 13485:2016/AC:2016)

## **HN/T/ 556, Osobna zaštitna oprema**

### **HRN EN 1496:2017 en pr**

Osobna zaštitna oprema protiv pada s visine – Spasilačke naprave za dizanje (EN 1496:2017)

Personal fall protection equipment – Rescue lifting devices (EN 1496:2017)

### **HRN EN ISO 10256-1:2017 en pr**

Zaštitna oprema za hokej na ledu – 1. dio: Opći zahtjevi (ISO 10256-1:2016; EN ISO 10256-1:2016)

Protective equipment for use in ice hockey – Part 1: General requirements (ISO 10256-1:2016; EN ISO 10256-1:2016)

## **HN/T/ 560, Tekstilni proizvodi**

### **HRN EN ISO 1421:2017 en pr**

Plošni tekstil naslojen gumom ili plastikom – Određivanje vlačne čvrstoće i produljenja pri prekidu (ISO 1421:2016; EN ISO 1421:2016)

Rubber- or plastics-coated fabrics – Determination of tensile strength and elongation at break (ISO 1421:2016; EN ISO 1421:2016)

### **HRN EN ISO 12947-2:2017 en pr**

Tekstil – Određivanje otpornosti na habanje plošnog tekstila metodom po Martindaleu – 2. dio:

Određivanje prekida uzorka (ISO 12947-2:2016; EN ISO 12947-2:2016)

Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 2: Determination of specimen breakdown (ISO 12947-2:2016; EN ISO 12947-2:2016)

## **HN/T/ 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce**

### **HRN EN ISO 12209:2013/A1:2017 en pr**

Plinske boce – Izlazni priključci ventila plinskih boca za zrak za disanje – Amandman 1: Izlazni priključci do maksimalno 500 bara radnoga tlaka boca (ISO 12209:2013/Amd 1:2016; EN ISO 12209:2013/A1:2016)

Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air – Amendment 1: Outlet connection up to a maximum cylinder working pressure of 500 bar (ISO 12209:2013/Amd 1:2016; EN ISO 12209:2013/A1:2016)

## **HN/T/ 562, Alatni strojevi i alati**

### **HRN EN 13743:2017 en pr**

Sigurnosni zahtjevi za presvučene abrazive (EN 13743:2017)

Safety requirements for coated abrasive products (EN 13743:2017)

## **HN/T 563, Sigurnost strojeva**

### **HRN EN ISO 11111-1:2017 en pr**

Tekstilni strojevi – Sigurnosni zahtjevi – 1. dio: Opći zahtjevi (ISO 11111-1:2016;

EN ISO 11111-1:2016)

Textile machinery – Safety requirements – Part 1: Common requirements (ISO 11111-1:2016;

EN ISO 11111-1:2016)

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

### **HRN ISO 2920:2017 en pr**

Sirutkin sir – Određivanje ukupne količine suhe tvari (Referentna metoda) (ISO 2920:2004)

Whey cheese – Determination of dry matter (Reference method) (ISO 2920:2004)

### **HRN ISO 6731:2017 en pr**

Mlijeko, vrhnje i evaporirano mlijeko – Određivanje ukupne količine suhe tvari (Referentna metoda) (ISO 6731:2010)

Milk, cream and evaporated milk – Determination of total solids content (Reference method) (ISO 6731:2010)

### **HRN ISO 6734:2017 en pr**

Zaslađeno kondenzirano mlijeko – Određivanje ukupne količine suhe tvari (Referentna metoda) (ISO 6734:2010)

Sweetened condensed milk – Determination of total solids content (Reference method) (ISO 6734:2010)

### **HRN ISO 9622:2017 en pr**

Mlijeko i tekući mliječni proizvodi – Smjernice za primjenu infracrvene spektrometrije u srednjem infracrvnom području (ISO 9622:2013)

Milk and liquid milk products – Guidelines for the application of mid-infrared spectrometry (ISO 9622:2013)

### **HRN ISO 15174:2017 en pr**

Mlijeko i mliječni proizvodi – Mikrobnii koagulanti – Određivanje ukupne aktivnosti zgrušavanja mlijeka (ISO 15174:2012)

Milk and milk products – Microbial coagulants – Determination of total milk-clotting activity (ISO 15174:2012)

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

### **HRN EN 14176:2017 en pr**

Hrana – Određivanje domoične kiseline u sirovim školjkašima, sirovim ribama koštunjačama i kuhanim dagnjama metodom RP-HPLC uz UV detektor (EN 14176:2017)

Foodstuffs – Determination of domoic acid in raw shellfish, raw finfish and cooked mussels by RP-HPLC using UV detection (EN 14176:2017)

## **HN/T 571, Sport, igrališta i ostali rekreativski sadržaji i oprema**

### **HRN EN 12572-1:2017 en pr**

Umetne strukture za penjanje – 1. dio: Sigurnosni zahtjevi i metode ispitivanja za umjetne penjačke strukture s točkama zaštite (EN 12572-1:2017)

Artificial climbing structures – Part 1: Safety requirements and test methods for ACS with protection points (EN 12572-1:2017)

**HRN EN 12572-2:2017 en pr**

Umjetne strukture za penjanje – 2. dio: Sigurnosni zahtjevi i metode ispitivanja za zidove sa stijenama (bouldering) (EN 12572-2:2017)

Artificial climbing structures – Part 2: Safety requirements and test methods for bouldering walls (EN 12572-2:2017)

**HRN EN 12572-3:2017 en pr**

Umjetne strukture za penjanje – 3. dio: Sigurnosni zahtjevi i metode ispitivanja za oslonce za penjanje (EN 12572-3:2017)

Artificial climbing structures – Part 3: Safety requirements and test methods for climbing holds (EN 12572-3:2017)

**HRN EN ISO 20957-5:2017 en pr**

Nepomična oprema za vježbanje – 5. dio: Biciklistički ergometri i oprema za trening gornjeg dijela tijela, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (ISO 20957-5:2016; EN ISO 20957-5:2016)

Stationary training equipment – Part 5: Stationary exercise bicycles and upper body crank training equipment, additonal specific safety requirements and test methods (ISO 20957-5:2016; EN ISO 20957-5:2016)

**HN/T 574, *Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama*****HRN EN 15224:2017 en pr**

Sustavi upravljanja kvalitetom – Primjena norme EN ISO 9001:2015 u zdravstvu (EN 15224:2016)  
Quality management systems – EN ISO 9001:2015 for healthcare (EN 15224:2016)

**HN/T 9, *Električna oprema za željeznicu*****HRN EN 50121-1:2017 en pr**

Željeznički sustav – Elektromagnetska kompatibilnost – 1. dio: Općenito (EN 50121-1:2017)  
Railway applications – Electromagnetic compatibility – Part 1: General (EN 50121-1:2017)

**HRN EN 50121-2:2017 en pr**

Željeznički sustav – Elektromagnetska kompatibilnost – 2. dio: Emisija cjelokupnoga željezničkog sustava u vanjski svijet (EN 50121-2:2017)  
Railway applications – Electromagnetic compatibility – Part 2: Emission of the whole railway system to the outside world (EN 50121-2:2017)

**HRN EN 50121-3-1:2017 en pr**

Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-1: Željeznička vozila – Vlak i cijelo vozilo (EN 50121-3-1:2017)  
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle (EN 50121-3-1:2017)

**HRN EN 50121-3-2:2017 en pr**

Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-2: Željeznička vozila – Uređaji (EN 50121-3-2:2016)  
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus (EN 50121-3-2:2016)

**HRN EN 50121-4:2017 en pr**

Željeznički sustav – Elektromagnetska kompatibilnost – 4. dio: Emisija i otpornost signalnih i telekomunikacijskih uređaja (EN 50121-4:2016)  
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus (EN 50121-4:2016)

**HRN EN 50122-1:2011/A3:2017 en pr**

Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio:

Zaštitne mjere protiv električnog udara (EN 50122-1:2011/A3:2016)

Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/A3:2016)

**HRN EN 50405:2016/A1:2017 en pr**

Željeznički sustav – Sustavi oduzimača struje – Pantografi, načini ispitivanja grafitnih klizača (EN 50405:2015/A1:2016)

Railway applications – Current collection systems – Pantographs, testing methods for contact strips (EN 50405:2015/A1:2016)

**HRN EN 50533:2013/A1:2017 en pr**

Željeznički sustav – Naponske karakteristike trofaznog željezničkog voda (EN 50533:2011/A1:2016)

Railway applications – Three-phase train line voltage characteristics (EN 50533:2011/A1:2016)

**HRN EN 62621:2016/A1:2017 en pr**

Željeznički sustav – Stabilna postrojenja – Električna vuča – Posebni zahtjevi za kompozitne izolatore za sustave nadzemnih kontaktnih vodova (EN 62621:2016/A1:2016)

Railway applications – Fixed installations – Electric traction – Specific requirements for composite insulators used for overhead contact line systems (EN 62621:2016/A1:2016)

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

**HRN EN 50341-2-16:2017 en pr**

Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-16: Nacionalni normativni aspekti (NNA) za Norvešku (na temelju EN 50341-1:2012) (EN 50341-2-16:2016)

Overhead electrical lines exceeding AC 1 kV – Part 2-16: National Normative Aspects (NNA) for NORWAY (based on EN 50341-1:2012) (EN 50341-2-16:2016)

**HRN EN 50341-2-18:2017 en pr**

Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-18: Nacionalni normativni aspekti (NNA) za Švedsku (na temelju EN 50341-1:2012) (EN 50341-2-18:2016)

Overhead electrical lines exceeding AC 1 kV – Part 2-18: National Normative Aspects (NNA) for Sweden (based on EN 50341-1:2012) (EN 50341-2-18:2016)

**HRN EN 50341-2-23:2017 en pr**

Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-23: Nacionalni normativni aspekti (NNA) za Slovačku (na temelju EN 50341-1:2012) (EN 50341-2-23:2016)

Overhead electrical lines exceeding AC 1 kV – Part 2-23: National Normative Aspects (NNA) for SLOVAKIA (based on EN 50341-1:2012) (EN 50341-2-23:2016)

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

**HRN EN 50052:2017 en pr**

Visokonaponska sklopna aparatura – Lijevana kućišta od aluminijskih legura punjena plinom (EN 50052:2016)

High-voltage switchgear and controlgear – Gas-filled cast aluminium alloy enclosures (EN 50052:2016)

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

**HRN EN 1839:2017 en pr**

Određivanje granica eksplozivnosti i graničnih koncentracija kisika zapaljivih plinova i para (EN 1839:2017)

Determination of the explosion limits and the limiting oxygen concentration (LOC) for flammable gases and vapours (EN 1839:2017)

**HRN EN 14986:2017** en pr  
Konstrukcija ventilatora za potencijalno eksplozivne atmosfere (EN 14986:2017)  
Design of fans working in potentially explosive atmospheres (EN 14986:2017)

**HRN EN 60079-29-1:2017** en pr  
Eksplozivne atmosfere – Dio 29-1: Oprema za otkrivanje i mjerjenje zapaljivih plinova – Zahtjevi za pogonska svojstva opreme za otkrivanje i mjerjenje zapaljivih plinova (IEC 60079-29-1:2016; EN 60079-29-1:2016)  
Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases (IEC 60079-29-1:2016; EN 60079-29-1:2016)

**HRN EN ISO/IEC 80079-38:2017** en pr  
Eksplozivne atmosfere – 38. dio: Oprema i komponente u eksplozivnim atmosferama u podzemnim rudnicima (ISO/IEC 80079-38:2016; EN ISO/IEC 80079-38:2016)  
Explosive atmospheres – Part 38: Equipment and components in explosive atmospheres in underground mines (ISO/IEC 80079-38:2016; EN ISO/IEC 80079-38:2016)

## **HNZ/TO E38, Mjerni transformatori**

**HRN EN 61869-6:2017** en pr  
Mjerni transformatori – 6. dio: Dodatni opći zahtjevi za mjerne transformatore male snage (IEC 61869-6:2016; EN 61869-6:2016)  
Instrument transformers – Part 6: Additional general requirements for low-power instrument transformers (IEC 61869-6:2016; EN 61869-6:2016)

**HRN EN 62689-1:2017** en pr  
Strujni i naponski pokazivači ili detektori koji se koriste za indikaciju prolaznih kvarova – 1. dio: Opći principi i zahtjevi (IEC 62689-1:2016; EN 62689-1:2016)  
Current and voltage sensors or detectors, to be used for fault passage indication purposes – Part 1: General principles and requirements (IEC 62689-1:2016; EN 62689-1:2016)

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

**HRN EN 61970-552:2017** en pr  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 552. dio: Format za razmjenu CIMXML modela (IEC 61970-552:2016; EN 61970-552:2016)  
Energy management system application program interface (EMS-API) – Part 552: CIMXML Model exchange format (IEC 61970-552:2016; EN 61970-552:2016)

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

**HRN EN 60601-1-3:2008/A11:2017** en pr  
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 60601-1-3:2008/A11:2016)  
Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment (EN 60601-1-3:2008/A11:2016)

**HRN EN 60601-2-10:2015/A1:2017** en pr  
Medicinska električna oprema – Dio 2-10: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke stimulatora živaca i mišića (IEC 60601-2-10:2012/am1:2016; EN 60601-2-10:2015/A1:2016)  
Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators (IEC 60601-2-10:2012/am1:2016; EN 60601-2-10:2015/A1:2016)

**HRN EN 60601-2-19:2010/A1:2017 en pr**

Medicinski električni uređaji – Dio 2-19: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke inkubatora za novorođenčad (IEC 60601-2-19:2009/am1:2016; EN 60601-2-19:2009/A1:2016)  
Medical electrical equipment – Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators (IEC 60601-2-19:2009/am1:2016; EN 60601-2-19:2009/A1:2016)

**HRN EN 60601-2-20:2010/A1:2017 en pr**

Medicinski električni uređaji – Dio 2-20: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke prijevoznih inkubatora za novorođenčad (IEC 60601-2-20:2009/am1:2016;  
EN 60601-2-20:2009/A1:2016)  
Medical electrical equipment – Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (IEC 60601-2-20:2009/am1:2016;  
EN 60601-2-20:2009/A1:2016)

**HRN EN 60601-2-21:2010/A1:2017 en pr**

Medicinski električni uređaji – Dio 2-21: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke za grijачe novorođenčadi koji griju zračenjem (EN 60601-2-21:2009/am1:2016;  
EN 60601-2-21:2009/A1:2016)  
Medical electrical equipment – Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers (EN 60601-2-21:2009/am1:2016;  
EN 60601-2-21:2009/A1:2016)

**HRN EN 60601-2-33:2011/A12:2017 en pr**

Medicinski električni uređaji – Dio 2-33: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke dijagnostičkih uređaja za magnetsku rezonancu (EN 60601-2-33:2010/A12:2016)  
Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis  
(EN 60601-2-33:2010/A12:2016)

**HRN EN 60601-2-50:2010/A1:2017 en pr**

Medicinska električna oprema – Dio 2-50: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke opreme za fototerapiju novorođenčadi (IEC 60601-2-50:2009/am1:2016;  
EN 60601-2-50:2009/A1:2016)  
Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment (IEC 60601-2-50:2009/am1:2016;  
EN 60601-2-50:2009/A1:2016)

**HRN EN 80601-2-35:2010/A1:2017 en pr**

Medicinska električna oprema – Dio 2-35: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za grijanje koji upotrebljavaju pokrivače, jastuke i madrace, a namijenjeni su za grijanje u medicinske svrhe (IEC 80601-2-35:2009/am1:2016; EN 80601-2-35:2009/A1:2016)  
Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use (IEC 80601-2-35:2009/am1:2016; EN 80601-2-35:2009/A1:2016)

**HZN/TO E79, Alarmni sustavi****HRN EN 50131-2-8:2017 en pr**

Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-8: Protuprovalni detektori – Detektori udara (EN 50131-2-8:2016)  
Alarm systems – Intrusion and hold-up systems – Part 2-8: Intrusion detectors – Shock detectors  
(EN 50131-2-8:2016)

**HZN/TO E80, Pomorska navigacijska i radiokomunikacijska oprema i sustavi****HRN EN 61162-1:2017 en pr**

Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Digitalna sučelja – 1. dio: Jedan govornik i više slušatelja (IEC 61162-1:2016; EN 61162-1:2016)  
Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 1:  
Single talker and multiple listeners (IEC 61162-1:2016; EN 61162-1:2016)

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

**HRN EN 50600-4-1:2017 en pr**

Information technology – Data centre facilities and infrastructures – Part 4-1: Overview of and general requirements for key performance indicators (EN 50600-4-1:2016)

**HRN EN 50600-4-2:2017 en pr**

Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness (EN 50600-4-2:2016)

**HRN EN 50600-4-3:2017 en pr**

Information technology – Data centre facilities and infrastructures – Part 4-3: Renewable Energy Factor (EN 50600-4-3:2016)

**HRN EN 50667:2017 en pr**

Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications (EN 50667:2016)

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

**HRN EN 300 113 V2.2.1:2017 en pr**

Kopnena pokretna služba – Radijska oprema namijenjena za prijenos podataka (i/ili govora) primjenom stalne ili promjenjive modulacije ovojnica i koja ima antenski priključak – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 300 113 V2.2.1:2016) 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 V2.2.1:2016)

**HRN EN 300 220-3-1 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) u uporabi u frekvencijskome području od 25 MHz do 1 000 MHz – Dio 3-1: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – Visoko pouzdana oprema s niskim ciklusom opterećenja, oprema društvenih alarma koja radi na namijenjenim frekvencijama (869,200 MHz do 869,250 MHz) (EN 300 220-3-1 V2.1.1:2016) Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz – Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz) (EN 300 220-3-1 V2.1.1:2016)

**HRN EN 300 328 V2.1.1:2017 en pr**

Širokopojasni prijenosni sustavi – Uređaji za prijenos podataka u ISM frekvencijskom pojasu od 2,4 GHz i koji primjenjuju metode širokopojasne modulacije – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 300 328 V2.1.1:2016) Wideband transmission systems – Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 328 V2.1.1:2016)

**HRN EN 300 487 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za pokretne zemaljske postaje koji imaju samo prijam (ROMES) koji omogućavaju podatkovnu komunikaciju u frekvencijskom pojasu od 1,5 GHz – Radiofrekvencijske (RF) specifikacije, koja obuhvaćaju bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 300 487 V2.1.2:2016) Satellite Earth Stations and Systems (SES) – Harmonised Standard for Receive-Only Mobile Earth Stations (ROMES) providing data communications operating in the 1,5 GHz frequency band – Radio Frequency (RF) specifications covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 487 V2.1.2:2016)

**HRN EN 301 166 V2.1.1:2017 en pr**

Kopnena pokretna služba – Radijska oprema za analognu i/ili digitalnu komunikaciju (govor i/ili podatci) koja radi na uskopojasnim kanalima i ima antenski spojnik – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 301 166 V2.1.1:2016)  
Land Mobile Service – Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow band channels and having an antenna connector – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 166 V2.1.1:2016)

**HRN EN 301 426 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za kopnene pokretne satelitske zemaljske postaje (LMES) niske brzine prijenosa podataka i pomorske pokretne satelitske zemaljske postaje (MMES) koje nisu predviđene za opasne i sigurnosne komunikacije u frekvencijskim pojasima 1,5 GHz/1,6 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 426 V2.1.2:2016)

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Low data rate Land Mobile satellite Earth Stations (LMES) and Maritime Mobile satellite Earth Stations (MMES) not intended for distress and safety communications operating in the 1,5 GHz/1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 426 V2.1.2:2016)

**HRN EN 301 444 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za kopnene pokretne zemaljske postaje (LMES) za govornu i/ili podatkovnu komunikaciju u frekvencijskim pojasima 1,5 GHz i 1,6 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 444 V2.1.2:2016)  
Satellite Earth Stations and Systems (SES) – Harmonised Standard for Land Mobile Earth Stations (LMES) providing voice and/or data communications, operating in the 1,5 GHz and 1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 444 V2.1.2:2016)

**HRN EN 301 473 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana norma za zemaljske postaje koje odašilju prema zrakoplovima (AES) omogućavajući zrakoplovnu pokretnu satelitsku službu (AMSS)/pokretnu satelitsku službu (MSS) i/ili zrakoplovnu pokretnu satelitsku službu na ruti (AM®S/pokretnu satelitsku službu (MSS), u frekvencijskom pojasu ispod 3 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 473 V2.1.2:2016)  
Satellite Earth Stations and Systems (SES) – Harmonised Standard for Aircraft Earth Stations (AES) providing Aeronautical Mobile Satellite Service (AMSS)/Mobile Satellite Service (MSS) and/or the Aeronautical Mobile Satellite on Route Service (AMS(R)S)/Mobile Satellite Service (MSS), operating in the frequency band below 3 GHz covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 473 V2.1.2:2016)

**HRN EN 301 489-5 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 5. dio: Posebni uvjeti za privatne kopneni pokretni radio (PMR) i pomoćnu opremu (s govorom i bez govorja) i digitalni radiokomunikacijski sustav (TETRA) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-5 V2.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA) Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU (EN 301 489-5 V2.1.1:2016)

**HRN EN 301 489-6 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 6. dio: Posebni uvjeti za opremu digitalnih poboljšanih bežičnih komunikacija (DECT) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-6 V2.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU (EN 301 489-6 V2.1.1:2016)

**HRN EN 301 489-15 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 15. dio: Posebni uvjeti za komercijalno dostupnu opremu za radioamatere – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-15 V2.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 15: Specific conditions for commercially available amateur radio equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU (EN 301 489-15 V2.1.1:2016)

**HRN EN 301 489-27 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 27. dio: Posebni uvjeti za aktivne medicinske implantate veoma male snage (ULP-AMI) i odgovarajuće periferne naprave – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-27 V2.1.1:2016)

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 (ULP-AMI-P) – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU (EN 301 489-27 V2.1.1:2016)

**HRN EN 301 489-29 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu 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 – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-29 V2.1.1:2016)

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 – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU (EN 301 489-29 V2.1.1:2016)

**HRN EN 301 489-31 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 31. dio: Posebni uvjeti za opremu u frekvencijskom pojasu od 9 kHz do 315 kHz za aktivne medicinske implantate ultra male snage (ULP-AMI-P) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-31 V2.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) – Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU (EN 301 489-31 V2.1.1:2016)

**HRN EN 301 489-35 V2.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 35. dio: Posebni zahtjevi za aktivne medicinske implantate male snage (LP-AMI) u frekvencijskim pojasima 2 483,5 MHz do 2 500 MHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-35 V2.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU (EN 301 489-35 V2.1.1:2016)

**HRN EN 301 489-51 V1.1.1:2017 en pr**

Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 51. dio: Posebni uvjeti za automobile, zemaljska vozila i nadzornu radarsku opremu u frekvencijskim pojasima od 24,05 GHz do 24,25 GHz, od 24,05 GHz do 24,5 GHz, od 76 GHz do 77 GHz i od 77 GHz do 81 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-51 V1.1.1:2016)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 51: Specific conditions for Automotive – Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz – Harmonised Standard covering the essential requirements of article 3.1b of Directive 2014/53/EU (EN 301 489-51 V1.1.1:2016)

**HRN EN 301 681 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi – Harmonizirana norma za pokretne zemaljske postaje (MESSs) geostacionarnih pokretnih satelitskih sustava, uključujući ručne zemaljske postaje, za satelitske mreže namijenjene osobnim komunikacijama (S-PCN) kao dio pokretne satelitske službe (MSS) u frekvencijskim pojasima 1,5 GHz i 1,6 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 301 681 V2.1.2:2016)

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Mobile Earth Stations (MESSs) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) under the Mobile Satellite Service (MSS), operating in the 1,5 GHz and 1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 681 V2.1.2:2016)

**HRN EN 302 065-1 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopojasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 1. dio: Zahtjevi za generičke UWB primjene (EN 302 065-1 V2.1.1:2016)

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 1: Requirements for Generic UWB applications (EN 302 065-1 V2.1.1:2016)

**HRN EN 302 065-2 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopojasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 2. dio: Zahtjevi za UWB praćenje lokacije (EN 302 065-2 V2.1.1:2016)

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 2: Requirements for UWB location tracking (EN 302 065-2 V2.1.1:2016)

**HRN EN 302 065-3 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopojasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 3. dio: Zahtjevi za UWB uređaje koje primjenjuju vozila na tlu (EN 302 065-3 V2.1.1:2016)

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 3: Requirements for UWB devices for ground based vehicular applications (EN 302 065-3 V2.1.1:2016)

**HRN EN 302 065-4 V1.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) koji upotrebljavaju ultra širokopojasnu tehnologiju (UWB) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU – 4. dio: Uređaji osjetljivi na materijal, koji primjenjuju UWB tehnologiju ispod 10,6 GHz (EN 302 065-4 V1.1.1:2016)

Short Range Devices (SRD) using Ultra Wide Band technology (UWB) – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU – Part 4: Material Sensing devices using UWB technology below 10,6 GHz (EN 302 065-4 V1.1.1:2016)

**HRN EN 302 208 V3.1.1:2017 en pr**

Oprema za radiofrekvencijsku identifikaciju u frekvencijskom pojasu od 865 MHz do 868 MHz s razinama snage do 2 W i u frekvencijskom pojasu od 915 MHz do 921 MHz s razinama snage do 4 W – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 208 V3.1.1:2016)

Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 208 V3.1.1:2016)

**HRN EN 302 248 V2.1.1:2017 en pr**

Navigacijski radari za uporabu na ne-SOLAS plovilima – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 248 V2.1.1:2016)

Navigation radar for use on non-SOLAS vessels – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 248 V2.1.1:2016)

**HRN EN 302 372 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) – Radarski uređaj za ispitivanje razine tvari u spremniku (TLPR) u frekvencijskim pojasima od 4,5 GHz do 7 GHz, od 8,5 GHz do 10,6 GHz, od 24,05 GHz do 27 GHz, od 57 GHz do 64 GHz, od 75 GHz do 85 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 372 V2.1.1:2016)

Short Range Devices (SRD) – Tank Level Probing Radar (TLPR) equipment operating in the frequency ranges 4,5 GHz to 7 GHz, 8,5 GHz to 10,6 GHz, 24,05 GHz to 27 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 372 V2.1.1:2016)

**HRN EN 302 609 V2.1.1:2017 en pr**

Uređaji kratkog dometa (SRD) – Radijski uređaji za željezničke sustave europetlje – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 609 V2.1.1:2016)

Short Range Devices (SRD) – Radio equipment for Euroloop railway systems – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 609 V2.1.1:2016)

**HRN EN 302 729 V2.1.1:2017 en pr**

Uređaji kratkoga dometa (SRD) – Radarski uređaj za ispitivanje razine tvari (LPR) u frekvencijskim pojasima od 6 GHz do 8,5 GHz, od 24,05 GHz do 26,5 GHz, od 57 GHz do 64 GHz, od 75 GHz do 85 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 729 V2.1.1:2016)

Short Range Devices (SRD) – Level Probing Radar (LPR) equipment operating in the frequency ranges 6 GHz to 8,5 GHz, 24,05 GHz to 26,5 GHz, 57 GHz to 64 GHz, 75 GHz to 85 GHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 729 V2.1.1:2016)

**HRN EN 302 858 V2.1.1:2017 en pr**

Uređaji kratkoga dometa – Cestovni prijevoz i prometna telematika (TTT) – Radarski uređaji koji rade u pojasu od 24,05 GHz do 24,25 GHz ili od 24,05 GHz do 24,50 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 302 858 V2.1.1:2016)

Short Range Devices – Transport and Traffic Telematics (TTT) – Radar equipment operating in the 24,05 GHz to 24,25 GHz or 24,05 GHz to 24,50 GHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 858 V2.1.1:2016)

**HRN EN 303 039 V2.1.2:2017 en pr**

Kopnena pokretna služba – Specifikacija višekanalnog odašiljača za PMR službu – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 303 039 V2.1.2:2016)

Land Mobile Service – Multichannel transmitter specification for the PMR Service – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 303 039 V2.1.2:2016)

**HRN EN 303 213-1 V1.4.1:2017 en pr**

Smjernica i poboljšani sustav nadzora nad gibanjem po tlu (A-SMGCS) – 1. dio: Specifikacija Zajednice za primjenu Pravilnika EC 552/2004 o međudjelovanju pod jedinstvenim europskim nebom za 1. razinu A-SMGCS-a koja obuhvaća vanjska sučelja (EN 303 213-1 V1.4.1:2016)

Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 1: Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 for A-SMGCS Level 1 including external interfaces (EN 303 213-1 V1.4.1:2016)

**HRN EN 303 213-2 V1.4.1:2017 en pr**

Smjernica i poboljšani sustav nadzora nad gibanjem po tlu (A-SMGCS) – 2. dio: Specifikacija Zajednice za primjenu Pravilnika EC 552/2004 o međudjelovanju pod jedinstvenim europskim nebom za 2. razinu A-SMGCS-a koja obuhvaća vanjska sučelja (EN 303 213-2 V1.4.1:2016)

Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 2: Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 for A-SMGCS Level 2 including external interfaces (EN 303 213-2 V1.4.1:2016)

**HRN EN 303 396 V1.1.1:2017 en pr**

Uređaji kratkoga dometa – Mjerne tehnike za automobilske i nadzorne radarske uređaje  
(EN 303 396 V1.1.1:2016)

Short Range Devices – Measurement Techniques for Automotive and Surveillance Radar Equipment  
(EN 303 396 V1.1.1:2016)

**HRN EN 303 978 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi – Harmonizirana norma za zemaljske postaje na pokretnim platformama (ESOMP) koje odašilju prema satelitima u geostacionarnoj orbiti, u frekvencijskim pojasima od 27,5 GHz do 30,0 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 978 V2.1.2:2016)

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 303 978 V2.1.2:2016)

**HRN EN 303 979 V2.1.2:2017 en pr**

Satelitske zemaljske postaje i sustavi – Harmonizirana norma za zemaljske postaje na pokretnim platformama koje odašilju prema satelitima u ne-geostacionarnoj orbiti, u frekvencijskim pojasima od 27,5 GHz do 29,1 GHz i od 29,5 GHz do 30,0 GHz, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU (EN 303 979 V2.1.2:2016)

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in non-geostationary orbit, operating in the 27,5 GHz to 29,1 GHz and 29,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 303 979 V2.1.2:2016)

***HN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1*****HRN EN 131-2:2017 en pr**

Ljestve – 2. dio: Zahtjevi, ispitivanje, označivanje (EN 131-2:2010+A2:2017)  
Ladders – Part 2: Requirements, testing, marking (EN 131-2:2010+A2:2017)

**HRN EN 16763:2017 en pr**

Usluge za sustave zaštite od požara i sigurnosne sustave (EN 16763:2017)  
Services for fire safety systems and security systems (EN 16763:2017)

***HN/TU S1, Zdravlje, okoliš i medicinska oprema 1*****HRI CEN/TR 15831:2017 en pr**

Metoda ispitivanja kompresije medicinskih čarapa za kompresiju (CEN/TR 15831:2009)  
Method for testing compression in medical hosiery (CEN/TR 15831:2009)

***HN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1*****HRN EN 2714-002:2017 en pr**

Zrakoplovstvo – Kabeli, električni, jednožilni i višežilni za opću upotrebu – Radne temperature između -55 °C i 260 °C – Dio 002: Oklopljeni i omotani – Općenito (EN 2714-002:2016)  
Aerospace series – Cables, electrical, single and multicore for general purpose – Operating temperatures between -55 °C and 260 °C – Part 002: Screened and jacketed – General (EN 2714-002:2016)

**HRN EN 2811:2017 en pr**

Aerospace series – Nuts, hexagon, slotted/castellated in steel cadmium plated – Classification: 1100 MPa/235 °C (EN 2811:2016)

**HRS CEN/TS 16165:2017 en pr**

Određivanje otpora na klizanje pješačkih površina – Metode vrednovanja (CEN/TS 16165:2016)  
Determination of slip resistance of pedestrian surfaces – Methods of evaluation (CEN/TS 16165:2016)

**HRN EN 3672:2017** en pr

Zrakoplovstvo – Držać matica, samozatvarajući, legura na bazi nikla otporna na toplinu NI-P101HT (Waspaloy), prevučena srebrom, za kalup od 30° – Klasifikacija: 1 210 MPa (pri temperaturi okoline)/730 °C (EN 3672:2016)

Aerospace series – Shank nuts, self-locking, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated, for 30° swage – Classification: 1 210 MPa (at ambient temperature)/730 °C (EN 3672:2016)

**HRN EN ISO 3691-3:2017** en pr

Industrial trucks – Safety requirements and verification – Part 3: Additional requirements for trucks with elevating operator position and trucks specifically designed to travel with elevated loads (ISO 3691-3:2016; EN ISO 3691-3:2016)

**HRN EN 3902:2017** en pr

Aerospace series – Washers for rivet assemblies, in aluminium alloy, anodized, metric series (EN 3902:2016)

**HRN EN 4179:2017** en pr

Zrakoplovstvo – Kvalifikacije i dopuštenje za rad djelatnika u poslovima nerazornog ispitivanja (EN 4179:2017)

Aerospace series – Qualification and approval of personnel for non-destructive testing (EN 4179:2017)

**HRN EN 4309:2017** en pr

Aerospace series – Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in alloy steel, cadmium plated – Classification: 900 MPa (at ambient temperature)/120 °C (EN 4309:2016)

**HRN EN 4531-001:2017** en pr

Zrakoplovstvo – Spojnice, optičke, kružne, jednostrukе i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravn kontakti – Dio 001: Tehnička specifikacija (EN 4531-001:2017)

Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 001: Technical specification (EN 4531-001:2017)

**HRN EN 4644-002:2017** en pr

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 002: Specifikacije značajki i položaj kontakata (EN 4644-002:2016)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 002: Specification of performance and contact arrangements (EN 4644-002:2016)

**HRN EN 4644-142:2017** en pr

Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 142. dio: Utičnica veličine 4 za priključne ploče utaknute u okvir, razreda C i D – Norma za proizvod (EN 4644-142:2016)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 142: Size 4 receptacle for rack and panel application, class C and D – Product standard (EN 4644-142:2016)

**HRN EN 6029:2017** en pr

Aerospace series – Rod-ends, adjustable, single fork with UNJ threaded shank min. engagement: 1,5 x thread diameter in corrosion resisting steel – Dimensions and loads – Inch series (EN 6029:2017)

**HRN EN 6059-202:2017** en pr

Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 202. dio: Dimenzije i masa (EN 6059-202:2016)

Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 202: Dimensions and mass (EN 6059-202:2016)

**HRN EN 6129:2016/Ispr.1:2017** en pr

Zrakoplovstvo – Oklopljeni vijak zaobljene glave, visoke čvrstoće, ugradnja povlačenjem  
(EN 6129:2016/AC:2017)

Aerospace series – Blind bolt, protruding head, high strength, pulltype (EN 6129:2016/AC:2017)

**HRN EN 12312-3:2017** en pr

Oprema za zemaljsku podršku zrakoplovu – Posebni zahtjevi – 3. dio: Vozila s transportnom trakom  
(EN 12312-3:2017)

Aircraft ground support equipment – Specific requirements – Part 3: Conveyor belt vehicles  
(EN 12312-3:2017)

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

**HRN EN 50436-3:2017** en pr

Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi–3. dio: Upute za vlasti, donositelje odluka, kupce i korisnike (EN 50436-3:2016)

Alcohol interlocks – Test methods and performance requirements – Part 3: Guidance for authorities, decision makers, purchasers and users (EN 50436-3:2016)

**HRN EN 50436-7:2017** en pr

Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 7. dio: Dokument za instalaciju (EN 50436-7:2016)

Alcohol interlocks – Test methods and performance requirements – Part 7: Installation document (EN 50436-7:2016)

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

**HRN EN 50289-1-11:2017** en pr

Communication cables – Specifications for test methods – Part 1-11: Electrical test methods – Characteristic impedance, input impedance, return loss (EN 50289-1-11:2016)

**HRN EN 60062:2016/Ispr.1:2017** en pr

Marking codes for resistors and capacitors (IEC 60062:2016/Corr.1:2016; EN 60062:2016/AC:2016)

**HRN EN 60603-7-82:2017** en pr

Connectors for electronic equipment – Part 7-82: Detail specification for 8-way, shielded, individual pair shielded, free and fixed connectors, for data transmission with frequencies up to 2 000 mhz (IEC 60603-7-82:2016; EN 60603-7-82:2016)

**HRN EN 61076-3-120:2017** en pr

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 (IEC 61076-3-120:2016; EN 61076-3-120:2016)

**HRN EN 61290-4-1:2017** en pr

Optical amplifiers – Test methods – Part 4-1: Gain transient parameters – Two-wavelength method (IEC 61290-4-1:2016; EN 61290-4-1:2016)

**HRN EN 61753-052-3:2017** en pr

Fibre optic interconnecting devices and passive components – Performance standard – Part 052-3: Single-mode fibre non-connectorized fixed attenuator – Category U in uncontrolled environment (IEC 61753-052-3:2016; EN 61753-052-3:2016)

**HRN EN 61753-052-6:2017** en pr

Fibre optic interconnecting devices and passive components – Performance standard – Part 052-6: Single mode fibre non connectorized fixed attenuator for category O – Outside plant environment (IEC 61753-052-6:2016; EN 61753-052-6:2016)

**HRN EN 61754-32:2017 en pr**

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 32: Type DiaLink connector family (IEC 61754-32:2016; EN 61754-32:2016)

**HRN EN 61754-34:2017 en pr**

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 34: Type URM connector family (IEC 61754-34:2016; EN 61754-34:2016)

**HRN EN 61853-2:2017 en pr**

Photovoltaic (PV) module performance testing and energy rating – Part 2: Spectral response, incidence angle and module operating temperature measurements (IEC 61853-2:2016; EN 61853-2:2016)

**HRN EN 62108:2017 en pr**

Concentrator photovoltaic (CPV) modules and assemblies – Design qualification and type approval (IEC 62108:2016; EN 62108:2016)

**HRN EN 62391-1:2016/Ispr.1:2017 en pr**

Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification (IEC 62391-1:2015/Corr.1:2016; EN 62391-1:2016/AC:2016)

**HRN EN 62788-1-4:2017 en pr**

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 (IEC 62788-1-4:2016; EN 62788-1-4:2016)

**HRN EN 140402:2015/A1:2017 en pr**

Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors (EN 140402:2015/A1:2016)

**HZN/TU W1, Energetska elektrotehnika 1****HRN EN 50193-2-2:2017 en pr**

Električne protočne grijalice vode – Dio 2-2: Izvedbeni zahtjevi – Električni protočni tuševi s jednim izljevnim mjestom – Učinkovitost (EN 50193-2-2:2016)

Electric instantaneous water heaters – Part 2-2: Performance requirements – Single point of use electric instantaneous showers – Efficiency (EN 50193-2-2:2016)

**HRN EN 50632-3-3:2017 en pr**

Elektromotorni alati – Postupak mjerjenja prašine – Dio 3-3: Posebni zahtjevi za prijenosne ravnalice i blanjalice (EN 50632-3-3:2017)

Electric motor-operated tools – Dust measurement procedure – Part 3-3: Particular requirements for transportable planers and thicknessers (EN 50632-3-3:2017)

**HRN EN 60704-2-13:2017 en pr**

Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – Dio 2-13: Posebni zahtjevi za nape štednjaka (IEC 60704-2-13:2016; EN 60704-2-13:2017)

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-13: Particular requirements for range hoods and other cooking fume extractors (IEC 60704-2-13:2016; EN 60704-2-13:2017)

## **1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku**

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

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

#### **prEN ISO 287 en**

Paper and board – Determination of moisture content of a lot – Oven-drying method  
(ISO/DIS 287:2016)

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

#### **FprEN ISO 12617 en**

Road vehicles – Liquefied natural gas (LNG) refuelling connector – 3,1 MPa connector  
(ISO 12617:2015)  
Cestovna vozila – Priključak za punjenje ukapljenim prirodnim plinom (UPP) – Priključak za 3,1 MPa  
(ISO 12617:2015)

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

#### **EN ISO 5395-1:2013/prA1 en**

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

#### **prEN 13525 en**

Forestry machinery – Wood chippers – Safety  
Šumarska mehanizacija – Iverači drva – Sigurnost

#### **prEN ISO 16119-5 en**

Agricultural and forestry machinery – Environmental requirements for sprayers – Part 5: Aerial spray  
systems (ISO/DIS 16119-5:2016)

#### **prEN 17067 en**

Forestry machinery – Safety requirements on radio remote controls

#### **prEN ISO 25119-1 en**

Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1:  
General principles for design and development (ISO/DIS 25119-1:2017)

#### **prEN ISO 25119-2 en**

Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 2:  
Concept phase (ISO/DIS 25119-2:2017)

#### **prEN ISO 25119-3 en**

Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3:

Series development, hardware and software (ISO/DIS 25119-3:2017)

Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 3. dio:  
Razvoj nizova, hardvera i softvera (ISO/DIS 25119-3:2017)

**prEN ISO 25119-4 en**

Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO/DIS 25119-4:2017)  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 4. dio: Proizvodnja, izvedba, modifikacija i postupci za podršku (ISO/DIS 25119-4:2017)

**HNZ/TO 28, *Naftni proizvodi i maziva*****prEN 589 en**

Automotive fuels – LPG – Requirements and test methods  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja

**HNZ/TO 34, *Poljoprivredni i prehrambeni proizvodi*****EN ISO 11746:2012/prA1 en**

Rice – Determination of biometric characteristics of kernels (ISO 11746:2012/DAmd 1:2016)  
Riža – Određivanje biometričkih karakteristika zrna (ISO 11746:2012/DAmd 1:2016)

**EN ISO 11747:2012/prA1:2016 en**

Rice – Determination of rice kernel resistance to extrusion after cooking  
(ISO 11747:2012/DAmd 1:2016)  
Riža – Određivanje otpornosti zrna riže na ekstruziju nakon kuhanja  
(ISO 11747:2012/DAmd 1:2016)

**HNZ/TO 43, *Akustika*****prEN ISO 389-1 en**

Acoustics – Reference zero for the calibration of audiometric equipment – Part 1: Reference equivalent threshold sound pressure levels for pure tones and supra-aural earphones  
(ISO/DIS 389-1:2016)  
Akustika – Referentna razina za umjeravanje audiometara – 1. dio: Referentne razine ekvivalentnoga zvučnog tlaka praga za čiste tonove i supraauralne slušalice (ISO/DIS 389-1:2016)

**prEN ISO 3822-3 en**

Acoustics – Laboratory tests on noise emission from appliances and equipment used in water supply installations – Part 3: Mounting and operating conditions for in-line valves and appliances  
(ISO/DIS 3822-3:2016)  
Akustika – Laboratorijska ispitivanja emisije buke od naprava i opreme korištene u instalacijama za opskrbu vodom – 3. dio: Uvjeti postave i rada prolaznih ventila i naprava (ISO/DIS 3822-3:2016)

**EN 16205:2013/prA1 en**

Laboratory measurement of walking noise on floors  
Laboratorijsko mjerjenje buke hodanja po podovima

**HNZ/TO 44, *Zavarivanje i srodnji postupci*****prEN ISO 544 en**

Welding consumables – Technical delivery conditions for filler materials and fluxes – Type of product, dimensions, tolerances and markings (ISO/DIS 544:2016)  
Dodatni i potrošni materijali za zavarivanje – Tehnički uvjeti isporuke za dodatne materijale za zavarivanje – Vrsta proizvoda, dimenzije, dopuštena odstupanja i označivanje (ISO/DIS 544:2016)

**FprEN ISO 636 en**

Welding consumables – Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels – Classification (ISO/FDIS 636:2016)  
Dodatni i potrošni materijali za zavarivanje – Šipke, žice i depoziti za TIG zavarivanje nelegiranih i sitnozrnatih čelika – Razredba (ISO/FDIS 636:2016)

**prEN ISO 14555 en**

Welding – Arc stud welding of metallic materials (ISO/FDIS 14555:2016)

Zavarivanje – Elektrolučno zavarivanje svornjaka od metalnih materijala (ISO/FDIS 14555:2016)

**prEN ISO 18275 en**

Welding consumables – Covered electrodes for manual metal arc welding of high-strength steels – Classification (ISO/DIS 18275:2016)

Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje (REL) čelika visoke čvrstoće – Razredba (ISO/DIS 18275:2016)

**prEN ISO 24373 en**

Welding consumables – Solid wires and rods for fusion welding of copper and copper alloys – Classification (ISO/DIS 24373)

Dodatni i potrošni materijali za zavarivanje – Pune žice i šipke za zavarivanje taljenjem bakra i legura bakra – Razredba (ISO/DIS 24373)

**prEN ISO 26304 en**

Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels – Classification (ISO/DIS 26304:2017)

Dodatni i potrošni materijali za zavarivanje – Elektrode od pune žice, elektrode od žice punjene praškom i kombinacije elektrode i praška za elektrolučno zavarivanje pod praškom čelika visoke čvrstoće – Razredba (ISO/DIS 26304:2017)

***HN/T 86, Uređaji za hlađenje, klimatizaciju i dizalice topline*****prEN 17066-1 en**

Insulated means of transport for temperature sensitive goods – Requirements and testing – Part 1: Container

Transportna sredstva s izoliranim prostorom za temperaturno osjetljivu robu – Zahtjevi i ispitivanja – 1. dio: Kontejner

***HN/T 92, Zaštita od požara*****prEN 15254-4 en**

Extended application of results from fire resistance tests – Non-loadbearing walls – Part 4: Glazed constructions

Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi zidovi – 4. dio: Ostakljene konstrukcije

**prEN 15254-7 en**

Extended application of results from fire resistance tests – Non-loadbearing ceilings – Part 7: Metal sandwich panel construction

Proširena primjena rezultata ispitivanja otpornosti na požar – Nenosivi stropovi – 7. dio: Konstrukcija metalnih sendvič panela

***HN/T 108, Mehaničke vibracije i udari*****FprEN ISO 8041-1 en**

Human response to vibration – Measuring instrumentation – Part 1: General purpose vibration meters (ISO/FDIS 8041-1:2016)

**EN ISO 28927-2:2009/prA1 en**

Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 2: Wrenches, nutrunners and screwdrivers – Amendment 1: Changes in annex C – Brake device (ISO 28927-2:2009/DAmd 1:2016)

**prEN ISO 28927-13 en**

Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 13: Fastener driving tools (ISO/DIS 28927-13:2017)

## **HN/T 120, Koža i obuća**

### **prEN ISO 4098 en**

Leather – Chemical tests – Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter (ISO/CDIS 4098:2016)

Koža – Kemijkska ispitivanja – Određivanje tvari topljivih u vodi, anorganskih i organskih vodotopljivih tvari (ISO/CDIS 4098:2016)

### **prEN ISO 20150 en**

Footwear and footwear components – Quantitative challenge test method to assess antifungal activity (ISO/DIS 20150:2017)

### **prEN ISO 20536 en**

Footwear – Critical substances potentially present in footwear and footwear components – Determination of phenol in footwear materials (ISO/DIS 20536:2017)

## **HN/T 135, Nerazorna ispitivanja**

### **FprEN ISO 16946 en**

Non-destructive testing – Ultrasonic testing – Specification for step wedge calibration block (ISO/CDIS 16946:2016)

Nerazorno ispitivanje – Ultrazvučno ispitivanje – Specifikacija za stepeničasti radni etalon (ISO/CDIS 16946:2016)

## **HN/T 136, Namještaj**

### **EN 16121:2013/prA1 en**

Non-domestic storage furniture – Requirements for safety, strength, durability and stability  
Namještaj za skladištenje koji nije za kućnu uporabu – Zahtjevi za sigurnost, čvrstoću, izdržljivost i stabilnost

## **HN/T 138, Plastične cijevi, spojnice i ventili za prijenos tekućina**

### **EN ISO 13260:2011/prA1 en**

Thermoplastics piping systems for non-pressure underground drainage and sewerage – Test method for resistance to combined temperature cycling and external loading (ISO 13260:2010/DAmd 1:2017)  
Plastomerni cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Metoda ispitivanja za otpornost na istodobnu cikličku promjenu temperature i vanjskog opterećenja (ISO 13260:2010/DAmd 1:2017)

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

### **prEN 17075 en**

Water quality – General requirements and performance test procedures for water monitoring equipment – Measuring devices

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

### **prEN ISO/IEC 25063 en**

Systems and software engineering – Systems and software product Quality Requirements and Evaluation (SQuaRE) – Common Industry Format (CIF) for usability: Context of use description (ISO/IEC 25063:2014)

### **prEN ISO/IEC 25064 en**

Systems and software engineering – Software product Quality Requirements and Evaluation (SQuaRE) – Common Industry Format (CIF) for usability: User needs report (ISO/IEC 25064:2013)

**prEN ISO 27500 en**

The human-centred organization – Rationale and general principles (ISO 27500:2016)

**HZN/TO 163, *Toplinska izolacija*****FPrCEN ISO/TR 52022-2 en**

Energy performance of buildings – Thermal, solar and daylight properties of building components and elements – Part 2: Explanation and justification (ISO/DTR 52022-2:2016)

Energijska svojstva zgrada – Toplinska, solarna i svojstva dnevnog svjetla građevnih dijelova i elemenata – 2. dio: Objasnjenje i obrazloženje (ISO/DTR 52022-2:2016)

**HZN/TO 172, *Optika i optički instrumenti*****prEN ISO 11553-1 en**

Safety of machinery – Laser processing machines – Part 1: General safety requirements (ISO/DIS 11553-1:2016)

Sigurnost strojeva – Laserski strojevi za obradu – 1. dio: Opći zahtjevi za sigurnost (ISO/DIS 11553-1:2016)

**prEN ISO 11553-2 en**

Safety of machinery – Laser processing machines – Part 2: Safety requirements for hand-held laser processing devices (ISO/DIS 11553-2:2016)

Sigurnost strojeva – Laserski strojevi za obradu – 2. dio: Zahtjevi za sigurnost ručnih laserskih uređaja za obradu (ISO/DIS 11553-2:2016)

**HZN/TO 178, *Dizala, pokretnе stube i pokretnе trake za osobe*****prEN 81-77 en**

Safety rules for the construction and installations of lifts – Particular applications for passenger and goods passenger lifts – Part 77: Lifts subject to seismic conditions

Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 77. dio: Dizala izložena seizmičkim uvjetima

**prEN 81-80 en**

Safety rules for the construction and installation of lifts – Existing lifts – Part 80: Rules for the improvement of safety of existing passenger and goods passenger lifts

Sigurnosna pravila za konstrukciju i ugradnju dizala – Postojeća dizala – 80. dio: Pravila za povećanje sigurnosti postojećih osobnih i osobnih teretnih dizala

**HZN/TO 181, *Sigurnost igračaka i proizvodi za djecu*****EN 1400:2013+A1:2014/prA2:2016 en**

Child use and care articles – Soothers for babies and young children – Safety requirements and test methods

Proizvodi za dojenčad i malu djecu – Duke varalice za dojenčad i malu djecu – Sigurnosni zahtjevi i metode ispitivanja

**HZN/TO 182, *Geotehničke konstrukcije*****prEN ISO 17892-12 en**

Geotechnical investigation and testing – Laboratory testing of soil – Part 12: Determination of liquid and plastic tests (ISO/DIS 17892-12:2016)

Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 12. dio: Određivanje granice tečenja i granice plastičnosti (ISO/DIS 17892-12:2016)

## **HN/T 217, Kozmetika**

### **prEN ISO 16212 en**

Cosmetics – Microbiology – Enumeration of yeast and mould (ISO/FDIS 16212:2017)  
Kozmetika – Mikrobiologija – Određivanje broja kvasaca i pljesni (ISO/FDIS 16212:2017)

### **prEN ISO 18415 en**

Cosmetics – Microbiology – Detection of specified and non-specified microorganisms (ISO/FDIS 18415:2017)

Kozmetika – Mikrobiologija – Dokazivanje specifičnih i nespecifičnih mikroorganizama (ISO/FDIS 18415:2017)

### **prEN ISO 21148 en**

Cosmetics – Microbiology – General instructions for microbiological examination (ISO/FDIS 21148:2017)

Kozmetika – Mikrobiologija – Opće upute za mikrobiološka ispitivanja (ISO/FDIS 21148:2017)

### **prEN ISO 21149 en**

Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria (ISO/FDIS 21149:2017)

Kozmetika – Mikrobiologija – Određivanje broja i dokazivanje aerobnih mezofilnih bakterija (ISO/FDIS 21149:2017)

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

### **EN 14915:2013/FprA1:2016 en**

Solid wood panelling and cladding – Characteristics, requirements and marking

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

### **EN 13329:2016/prA1 en**

Laminate floor coverings – Elements with a surface layer based on aminoplastic thermosetting resins – Specifications, requirements and test methods

Laminatne podne obloge – Elementi s površinskim slojem na bazi aminoplastičnih termostabilnih smola – Specifikacije, zahtjevi i metode ispitivanja

## **HN/T 502, Plinski uređaji**

### **prEN 437 en**

Test gases – Test pressures – Appliance categories

Ispitni plinovi – Ispitni tlakovi – Kategorije uređaja

### **FprEN 676 en**

Forced draught burners for gaseous fuels

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

### **prEN ISO 2931 en**

Anodizing of aluminium and its alloys – Assessment of quality of sealed anodic oxidation coatings by measurement of admittance (ISO/DIS 2931:2016)

Anodna obrada aluminija i aluminijevih legura – Ocjenjivanje kvalitete zapunjениh prevlaka anodnom oksidacijom mjeranjem prijemuljivosti (ISO/DIS 2931:2016)

### **prEN ISO 4829-1 en**

Steels – Determination of total silicon contents – Reduced molybdate-silicate spectrophotometric method – Part 1: Silicon contents between 0,05 % and 1,0 % (ISO/DIS 4829-1:2016)

**prEN ISO 7599 en**

Anodizing of aluminium and its alloys – Method for specifying decorative and protective anodic oxidation coatings on aluminium (ISO/DIS 7599:2016)

**EN 10270-1:2011/FprA1 en**

Steel wire for mechanical springs – Part 1: Patented cold drawn unalloyed spring steel wire  
Čelična žica za opruge – 1. dio: Patentirana hladno vučena žica od nelegiranog čelika za opruge

**prEN 15024-2 en**

Copper and copper alloys – Determination of zinc content – Part 2: Flame atomic absorption spectrometric method (FAAS)  
Bakar i legure bakra – Određivanje sadržaja cinka – 2. dio: Metoda plamene atomske apsorpcijske spektrometrije (FAAS)

**HZN/TO 504, Korozija i zaštita metala i legura****prEN ISO 14713-1 en**

Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 1: General principles of design and corrosion resistance (ISO/CDIS 14713-1:2016)  
Cinkove prevlake – Smjernice i preporuke za zaštitu od korozije konstrukcija iz željeznog lijeva i čelika – 1. dio: Opća načela projektiranja i korozijske otpornosti (ISO/CDIS 14713-1:2016)

**prEN ISO 14713-3 en**

Zinc coatings – Guidelines and recommendations for the protection against corrosion of iron and steel in structures – Part 3: Sherardizing (ISO/CDIS 14713-3:2016)  
Cinkove prevlake – Smjernice i preporuke za zaštitu od korozije konstrukcija iz željeznog lijeva i čelika – 3. dio: Šerardiziranje (ISO/CDIS 14713-3:2016)

**HZN/TO 508, Ambalaža i pakiranje****prEN ISO 20848-3 en**

Packaging – Plastics drums – Part 3: Plug/bung closure systems for plastics drums with a nominal capacity of 113,6 l to 220 l (ISO/DIS 20848-3:2016)  
Ambalaža – Plastične bačve – 3. dio: Sustav zatvaranja čepovima za plastične bačve nazivnog obujma od 113,6 l do 220 l (ISO/DIS 20848-3:2016)

**HZN/TO 513, Mjerne jedinice i mjerila****prEN ISO 80000-9 en**

Quantities and units – Part 9: Physical chemistry and molecular physics (ISO/DIS 80000-9:2017)  
Veličine i jedinice – 9. dio: Fizikalna kemija i molekularna fizika (ISO/DIS 80000-9:2017)

**prEN ISO 80000-11 en**

Quantities and units – Part 11: Characteristic numbers (ISO/DIS 80000-11:2017)  
Veličine i jedinice – 11. dio: Karakteristični brojevi (ISO/DIS 80000-11:2017)

**HZN/TO 515, Žičare, uspinjače i vučnice****prEN 17064 en**

Safety requirements for cableway installations designed to carry persons – Prevention and fight against fire

## **HN/T 528, Oprema za željeznice**

### **EN 14531-1:2015/prA1:2016 en**

Railway applications – Methods for calculation of stopping and slowing distances and immobilization braking – Part 1: General algorithms utilizing mean value calculation for train sets or single vehicles  
Željeznički sustav – Metode proračuna zaustavnih puteva, puteva usporenja i pritvrdnog kočenja – 1. dio: Opći algoritmi s uporabom proračuna srednje vrijednosti za motorne vlakove ili pojedinačna vozila

### **FprEN 16432-1 en**

Railway applications – Ballastless track systems – Part 1: General requirements

### **prEN 17069-1 en**

Railway applications – Systems and procedures for change of track gauge – Part 1: Automatic Variable Gauge Systems

## **HN/T 529, Granici, dizalice i prenosila neprekidne dobave**

### **prEN 17076 en**

Anti-collision devices and systems for tower crane – Safety characteristics and requirements

## **HN/T 531, Plastika i guma**

### **prEN 438-9 en**

High-pressure decorative laminates (HPL) – Sheets based on thermosetting resins (usually called laminates) – Part 9: Classification and specifications for alternative core laminates

Visokotlačni dekorativni laminati (HPL) – Ploče na osnovi duromernih smola (uobičajenoga naziva laminati) – 9. dio: Razredba i specifikacije za laminate alternativnih jezgri

### **prEN 12814-4 en**

Testing of welded joints of thermoplastics semi-finished products – Part 4: Peel test

Ispitivanje zavarenih spojeva plastomernih poluproizvoda – 4. dio: Ispitivanje ljuštenja

### **prEN 13207 en**

Plastics – Thermoplastic silage films and tubes for use in agriculture

### **prEN 13655 en**

Plastics – Thermoplastic mulch films recoverable after use, for use in agriculture and horticulture

### **prEN ISO 15023-2 en**

Plastics – Poly(vinyl alcohol) (PVAL) materials – Part 2: Determination of properties  
(ISO/DIS 15023-2:2016)

Plastika – Poli(vinil-alkoholni) (PVAL) materijali – 2. dio: Određivanje svojstava  
(ISO/DIS 15023-2:2016)

### **EN 15534-1:2014/prA1 en**

Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) – Part 1: Test methods for characterisation of compounds and products

Kompozitni materijali proizvedeni na osnovi celuloze i plastomera (uobičajeni naziv drvno-polimerni kompoziti (WPC) ili kompoziti na osnovi prirodnih vlakana (NFC)) – 1. dio: Ispitne metode za karakterizaciju smjesa i proizvoda

### **EN 15534-6:2015/prA1 en**

Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) – Part 6: Specifications for fencing profiles and elements

Kompozitni materijali proizvedeni na osnovi celuloze i plastomera (uobičajeni naziv drvno-polimerni kompoziti (WPC) ili kompoziti na osnovi prirodnih vlakana (NFC)) – 6. dio: Specifikacije za profile i elemente ograda

## **HN/T 533, Kolničke konstrukcije**

### **prEN 14187-5 en**

Cold applied joint sealants – Test methods – Part 5: Determination of the resistance to hydrolysis  
Hladne brtvene mase – Metode ispitivanja – 5. dio: Određivanje otpornosti na hidrolizu

### **prEN 14187-7 en**

Cold applied joint sealants – Test methods – Part 7: Determination of the resistance to flame  
Hladne brtvene mase – Metode ispitivanja – 7. dio: Određivanje otpornosti na plamen

### **prEN 14187-9 en**

Cold applied joint sealants – Test methods – Part 9: Function testing of joint sealants  
Hladne brtvene mase – Metode ispitivanja – 9. dio: Ispitivanje učinkovitosti brtvenih masa

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

### **prEN 179 en**

Building hardware – Emergency exit devices operated by a lever handle or push pad, for use on escape routes – Requirements and test methods

Građevni okovi – Naprave izlaza za nuždu s kvakom ili pritisnom pločom za upotrebu na evakuacijskim putovima – Zahtjevi i metode ispitivanja

### **EN 1906:2012/prA1:2017 en**

Building hardware – Lever handles and knob furniture – Requirements and test methods  
Građevni okovi – Prihvatići i kvake – Zahtjevi i metode ispitivanja

### **prEN 13126-6 en**

Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 6: Variable geometry stay hinges (with or without a friction stay)

Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 6. dio: Šarke s promjenjivom geometrijom zadržavanja (s kočnim sustavom ili bez njega)

### **prEN 17074 en**

Glass in building – Environmental product declaration – Product category rules for flat glass products  
Staklo u graditeljstvu – Izjava zaštite okoliša – Pravila za kategorizaciju proizvoda za proizvode od ravnog stakla

## **HN/T 539, Kemijski dezinficijensi i antiseptici**

### **prEN 13704 en**

Chemical disinfectants – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)

### **prEN 16777 en**

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

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

### **prEN ISO 12759-3 en**

Fans – Efficiency classification for fans – Part 3: Fans without drives at maximum operating speed (ISO/DIS 12759-3:2016)

Ventilatori – Razredba učinkovitosti ventilatora – 3. dio: Ventilatori bez pogona pri najvećoj radnoj brzini (ISO/DIS 12759-3:2016)

## **HN/T 549, Svjetlo i rasvjeta**

### **prEN 12193 en**

Light and lighting – Sports lighting

Svetlo i rasvjeta – Rasvjeta sportskih objekata

### **prEN 13032-5 en**

Light and lighting – Measurement and presentation of photometric data of lamps and luminaires – Part 5: Presentation of data for luminaires used for road lighting

Svetlo i rasvjeta – Mjerenje i prikaz fotometričkih podataka izvora svjetla i rasvjetnih tijela – 5. dio: Prikaz podataka za rasvjetna tijela za cestovnu rasvjetu

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

### **prEN ISO 10545-3 en**

Ceramic tiles – Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density (ISO/DIS 10545-3:2016)

Keramičke pločice – 3. dio: Određivanje upijanja vode, prvidne poroznosti, prvidne relativne gustoće i volumena mase (ISO/DIS 10545-3:2016)

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

### **prEN ISO 20186-1 en**

Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 1: Isolated cellular RNA (ISO/DIS 20186-1:2016)

### **prEN ISO 20186-2 en**

Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 2: Isolated genomic DNA correct (ISO/DIS 20186-2:2016)

### **prEN ISO 25424 en**

Sterilization of health care products – Low temperature steam and formaldehyde – Requirements for development, validation and routine control of a sterilization process for medical devices (ISO/DIS 25424:2017)

Sterilizacija medicinskih uređaja – Niskotemperaturna para i formaldehid – Zahtjevi za razvoj, vrednovanje i rutinsku kontrolu sterilizacijskog postupka za medicinske uređaje (ISO/DIS 25424:2017)

## **HN/T 556, Osobna zaštitna oprema**

### **EN 353-1:2014/prA1:2017 en**

Personal fall protection equipment – Guided type fall arresters including an anchor line – Part 1: Guided type fall arresters including a rigid anchor line

Osobna zaštitna oprema protiv pada s visine – Naprave za zaustavljanje pada s vodilicom uključujući sidrenu liniju – 1. dio: Naprave za zaustavljanje pada s vodilicom uključujući čvrstu sidrenu liniju

### **prEN 13819-3 en**

Hearing protectors – Testing – Part 3: Supplementary acoustic test method

## **HN/T 557, Zaštitna odjeća**

### **prEN ISO 11393-1 en**

Protective clothing for users of hand-held chain-saws – Part 1: Test rig for testing resistance to cutting by a chain-saw (ISO/DIS 11393-1:2016)

### **prEN ISO 11393-2 en**

Protective clothing for users of hand-held chainsaws – Part 2: Performance requirements and test methods for leg protectors (ISO/DIS 11393-2:2016)

**prEN ISO 11393-3 en**

Protective clothing for users of hand-held chain-saws – Part 3: Test methods for footwear  
(ISO/DIS 11393-3:2016)

**prEN ISO 11393-4 en**

Protective clothing for users of hand-held chain-saws – Part 4: Test methods and performance requirements for protective gloves (ISO/DIS 11393-4:2016)

**prEN ISO 11393-5 en**

Protective clothing for users of hand-held chain-saws – Part 5: Test methods and performance requirements for protective gaiters (ISO/DIS 11393-5:2016)

**prEN ISO 11393-6 en**

Protective clothing for users of hand-held chain-saws – Part 6: Test methods and performance requirements for upper body protectors (ISO/DIS 11393-6:2016)

***HNZ/TO 558, Zaštita dišnih putova*****prEN 12941 en**

Respiratory protective devices – Powered filtering devices incorporating a loose fitting respiratory interface – Requirements, testing, marking

**prEN 12942 en**

Respiratory protective devices – Power filtering devices incorporating full face masks, half masks or quarter masks – Requirements, testing, marking

**prEN 14593-1 en**

Respiratory protective devices – Compressed air line breathing apparatus with demand valve – Part 1: Devices with a full face mask – Requirements, testing and marking

Zaštitne naprave za disanje – Cijevni uređaji za disanje sa stlačenim zrakom s plućnim automatom – 1. dio: Uređaji s maskom za cijelo lice – Zahtjevi, ispitivanje i označivanje

**prEN 14594 en**

Respiratory protective devices – Continuous flow compressed air line breathing devices – Requirements, testing and marking

Zaštitne naprave za disanje – Cijevni uređaji za disanje sa stalnim dotokom stlačenog zraka – Zahtjevi, ispitivanje, označivanje

***HNZ/TO 559, Zaporni, regulacijski i sigurnosni uređaji*****prEN 17070 en**

Industrial valves – Minimum performance requirements

***HNZ/TO 560, Tekstilni proizvodi*****prEN ISO 15487 en**

Textiles – Method for assessing appearance of apparel and other textile end products after domestic washing and drying (ISO/DIS 15487:2016)

Tekstil – Metoda ocjenjivanja izgleda odjeće i drugih gotovih tekstilnih proizvoda nakon pranja i sušenja u kućanstvu (ISO/DIS 15487:2016)

***HNZ/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce*****EN 12493:2013+A1:2014/prA2 en**

LPG equipment and accessories – Welded steel pressure vessels for LPG road tankers – Design and manufacture

Oprema i pribor za UNP – Zavarene čelične tlačne posude za UNP spremnike za cestovna vozila – Projektiranje i proizvodnja

**prEN 12953-4 en**

Shell boilers – Part 4: Workmanship and construction of pressure parts of the boiler  
Dimnjocijevni kotlovi – 4. dio: Izrada i konstrukcija dijelova kotla pod tlakom

**EN 13445-2:2014/prA4:2016 en**

Unfired pressure vessels – Part 2: Materials  
Neložene tlačne posude – 2. dio: Materijali

**EN 13445-4:2014/prA2 en**

Unfired pressure vessels – Part 4: Fabrication  
Neložene tlačne posude – 4. dio: Proizvodnja

**HN/T0 562, Alatni strojevi i alati****prEN ISO 20430 en**

Plastics and rubber machines – Injection moulding machines – Safety requirements  
(ISO/DIS 20430:2017)  
Strojevi za plastiku i gumu – Strojevi za ubrizgavanje u kalupe – Sigurnosni zahtjevi  
(ISO/DIS 20430:2017)

**HN/T0 564, Uljarice, biljna i životinjska ulja i masti****prEN ISO 12966-2 en**

Animal and vegetable fats and oils – Gas chromatography of fatty acid methyl esters – Part 2:  
Preparation of methyl esters of fatty acids (ISO/FDIS 12966-2:2016)  
Životinjske i biljne masti i ulja – Određivanje metilnih estera masnih kiselina plinskom kromatografijom  
– 2. dio: Priprava metilnih estera masnih kiselina (ISO/FDIS 12966-2:2016)

**FprEN ISO 15302 en**

Animal and vegetable fats and oils – Determination of benzo[a]pyrene – Reverse-phase high  
performance liquid chromatography method (ISO/FDIS 15302:2016)  
Životinjske i biljne masti i ulja – Određivanje količine benzo(a)pirena metodom reverzno-fazne  
tekućinske kromatografije visokog učinka (ISO/FDIS 15302:2016)

**HN/T0 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i  
pribor u kontaktu s hranom****prEN 15662 en**

Foods of plant origin – Multimethod for the determination of pesticide residues using GC-and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE – Modular QuEChERS-method

**HN/T0 E2, Rotacijski strojevi****prEN 60034-27-1:2017 en**

Rotating electrical machines – Part 27-1: Off-line partial discharge measurements on the stator winding insulation of rotating electrical machines (IEC 60034-27-1:201X)

**HN/T0 E10, Fluidi za primjenu u elektrotehnici****prEN 60376:2017 en**

Specification of technical grade sulphur hexafluoride (SF<sub>6</sub>) and complementary gases to be used in its mixtures for use in electrical equipment (IEC 60376:201X)

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

### **FprEN 60669-1:2016/FprAA:2016 en**

Switches for household and similar fixed-electrical installations – Part 1: General requirements  
Sklopke za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi

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

### **prEN 14460 en**

Explosion resistant equipment  
Oprema otporna na eksploziju

### **prEN 17077 en**

Determination of burning behaviour of dust layers

### **EN 60079-18:2015/prA1:2016 en**

Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
(IEC 60079-18:2014/am1:201X)

Eksplozivne atmosfere – 18. dio: Vrsta zaštite opreme oblaganje "m"  
(IEC 60079-18:2014/am1:201X)

### **prEN 60079-19:2017 en**

Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation (IEC 60079-19:201X)  
Eksplozivne atmosfere – 19. dio: Popravak, obnova i pregradnja opreme (IEC 60079-19:201X)

## **HN/T0 E34, *Žarulje, svjetiljke i pripadna oprema***

### **EN 60061-1:1993/prA57:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1:  
Lamp caps (IEC 60061-1:1969/am57:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za  
žarulje (IEC 60061-1:1969/am57:201X)

### **EN 60061-2:1993/prA53:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2:  
Lampholders (IEC 60061-2:1969/am53:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za  
žarulje (IEC 60061-2:1969/am53:201X)

### **EN 60061-3:1993/prA54:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3:  
Gauges (IEC 60061-3:1969/am54:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična  
mjerila (IEC 60061-3:1969/am54:201X)

### **EN 60061-4:1992/prA16:2016 en**

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 4:  
Guidelines and general information (IEC 60061-4:1990/am16:201X)  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 4. dio: Smjernice i  
opće informacije (IEC 60061-4:1990/am16:201X)

### **EN 60081:1998/FprA6:2015/prAA:2017 en**

Double-capped fluorescent lamps – Performance specifications  
Fluorescentne cijevi s dva podnoška – Izvedbeni zahtjevi

### **EN 60901:1996/FprA6:2014/prAA:2016 en**

Single-capped fluorescent lamps – Performance specifications  
Fluorescentne cijevi s jednim podnoškom – Izvedbeni zahtjevi

**prEN 62031:2017 en**

LED modules for general lighting – Safety specifications (IEC 62031:201X)

Moduli svjetlećih dioda za opću rasvjetu – Sigurnosni zahtjevi (IEC 62031:201X)

**HNZ/TO E36, Izolatori****EN 50180-3:2015/prA1:2017 en**

Bushings above 1 kV up to 52 kV and from 250 A to 3,15 kA for liquid filled transformers – Part 3:

Requirements for bushing fixations

Provodni izolatori iznad 1 kV do 52 kV i od 250 A do 3,15 kA za transformatore punjene tekućinom – 3. dio: Zahtjevi za učvršćenja provodnih izolatora

**HNZ/TO E38, Mjerni transformatori****prEN 61869-13:2017 en**

Instrument Transformers – Part 13: Stand alone Merging Unit (SAMU) (IEC 61869-13:201X)

**HNZ/TO E57, Upravljanje energetskim sustavom i pridružene komunikacije****prEN 62325-301:2017 en**

Framework for energy market communications – Part 301: Common Information Model (CIM)

extensions for markets (IEC 62325-301:201X)

Tehnički okvir za komunikaciju na tržištu električnom energijom – 301. dio: Proširenje zajedničkog informacijskog modela (CIM) prema zahtjevima tržišta (IEC 62325-301:201X)

**HNZ/TO E64, Električne instalacije i zaštita od električnog udara****FprHD 60364-7-704:2016/FprAA:2016 en**

Low-voltage electrical installations – Part 7-704: Requirements for special installations or locations – Construction and demolition site installations

Niskonaponske električne instalacije – Dio 7-704: Zahtjevi za posebne instalacije ili prostore – Instalacije gradilišta i rušilišta

**HNZ/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa****prEN 61987-92:2016 en**

Industrial-Process Measurement and Control – Data Structures and Elements in Process Equipment Catalogues – Part 92: Lists of properties (LOP) of measuring equipment for electronic data exchange – Aspect LOPs (IEC 61987-92:201X)

**HNZ/TO E72, Naprave za automatsko upravljanje u kućanstvu****EN 60730-2-9:2016/prA1:2017 en**

Automatic electrical controls – Part 2-9: Particular requirements for temperature sensing controls (IEC 60730-2-9:2015/am1:201X)

**HNZ/TO E79, Alarmni sustavi****EN 50136-1:2012/prA1 en**

Alarm systems – Alarm transmission systems and equipment – Part 1: General requirements for alarm transmission systems

Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – 1. dio: Opći zahtjevi za sustave za prijenos signala

**prEN 62820-3-1:2016 en**

Building intercom systems – Part 3-1: Application guidelines – General (IEC 62820-3-1:201X)

Sustavi za internu komunikaciju u zgradama – Dio 3-1: Smjernice za primjenu – Općenito (IEC 62820-3-1:201X)

**prEN 62820-3-2:2016** en

Building intercom systems – Part 3-2: Application guidelines – Advanced security building intercom systems (IEC 62820-3-2:201X)

Sustavi za internu komunikaciju u zgradi – Dio 3-2: Smjernice za primjenu – Napredni sigurnosni sustavi za internu komunikaciju u zgradi (IEC 62820-3-2:201X)

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

**prEN 62680-1-2:2016** en

Universal Serial Bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery Specification (TA14) (IEC 62680-1-2:201X)

**prEN 63029:2016** en

Audio, video and multimedia systems and equipment – Multimedia e-publishing and e-book technologies – Raster-graphics image-based e-books (IEC 63029:201X)

**prEN 63059:2016** en

Multimedia vibration audio systems – Method of measurement for audio characteristics of audio actuator by pinna-conduction (IEC 63059:201X)

**HNZ/TO E106, Elektromagnetska polja u ljudskome okolišu**

**prEN 50496** en

Determination of workers' exposure to electromagnetic fields and assessment of risk at a broadcast site

Određivanje izloženosti radnika elektromagnetskim poljima i procjena rizika na lokaciji radiodifuzijskog odašiljača

**HNZ/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije**

**prEN 62368-3:2017** en

Audio/video, information and communication technology equipment – safety – Part 3: DC power transfer through communication cables or ports (IEC 62368-3:201X)

**HNZ/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama**

**EN 55016-4-2:2011/prA2:2016 {fragment 3}** en

Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Measurement instrumentation uncertain

(CISPR 16-4-2:2011/am2:201X {fragment 3})

Specifikacija uređaja i metoda za mjerjenja radiosmetnja i otpornosti – Dio 4-2: Nesigurnosti, statistike i modeliranje dopuštenih vrijednosti – Nesigurnost mjerne opreme  
(CISPR 16-4-2:2011/am2:201X {fragment 3})

**EN 55016-4-2:2011/prA2:2016 {fragment 5}** en

Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2:

Uncertainties, statistics and limit modelling – Measurement instrumentation uncertainty

Specifikacija uređaja i metoda za mjerjenja radiosmetnja i otpornosti – Dio 4-2: Nesigurnosti, statistike i modeliranje dopuštenih vrijednosti – Nesigurnost mjerne opreme

## **HN/T0 E501, Elektroakustika i ultrazvuk**

### **EN 62359:2011/prA1:2017 en**

Ultrasonics – Field characterization – Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields (IEC 62359:2010/am1:201X)

Ultrazvuk – Određivanje svojstava polja – Metode ispitivanja za određivanje toplinskih i mehaničkih pokazatelja povezanih s medicinskim dijagnostičkim ultrazvučnim poljima (IEC 62359:2010/am1:201X)

## **HN/T0 E502, Elektrotehnički aspekti telekomunikacijske opreme**

### **EN 50174-3:2013/FprA1:2016 en**

Information technology – Cabling installation – Part 3: Installation planning and practices outside buildings

Informacijska tehnologija – Instalacija kabliranja – 3. dio: Planiranje instalacije i instalacijska praksa izvan zgrada

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

### **Draft EN 300 472 V1.4.1:2017 en**

Digital Video Broadcasting (DVB) – Specification for conveying ITU-R System B Teletext in DVB bitstreams

Digitalna videoradiodifuzija (DVB) – Specifikacija za dopremu teleteksta ITU-R sustava B u protokolu DVB-a

### **Draft EN 301 178 V2.2.0:2016 en**

Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only) – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Prijenosni radiotelefon vrlo visoke frekvencije (VHF) za pomorsku pokretnu službu u VHF pojasima (samo za primjene koje nisu GMDSS) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

### **Draft EN 302 017 V2.0.3:2016 en**

Transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Odašiljačka oprema za amplitudno moduliranu (AM) zvučnu radiodifuznu službu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

### **Draft EN 302 018 V2.0.3:2016 en**

Transmitting equipment for the Frequency Modulated (FM) sound broadcasting service – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Odašiljačka oprema za frekvencijski moduliranu (FM) zvučnu radiodifuznu službu – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

### **Draft EN 302 567 V2.0.22:2016 en**

Multiple-Gigabit/s radio equipment operating in the 60 GHz band – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Radijske opreme višestrukih Gbit/s brzina koja radi u frekvencijskom pojasu 60 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive 2014/53/EU

### **Draft EN 303 146-4 V1.1.1:2017 en**

Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 4: Radio Programming Interface (RPI)

Rekonfigurabilni radijski sustavi (RRS) – Informacijski modeli i protokoli za mobilni uređaj (MD) – 4. dio: Radijsko programiranje sučelja (RPI)

**Draft EN 303 423 V1.0.0:2017 en**

Environmental Engineering (EE) – Electrical and electronic household and office equipment – Measurement of networked standby power consumption of Interconnecting equipment – Harmonised Standard covering the measurement method for EC Regulation 1275/2008 amended by EU Regulation 801/2013

Upravljanje okolišem (EE) – Električna i elektronička kućanska i uredska oprema – Mjerenje mrežne potrošnje snage praznoga hoda međusobno povezane opreme – Harmonizirana norma koja obuhvaća mjernu metodu za EC uredbu 1275/2008 nadopunjenu s EU uredbom 801/2013

**HZN/TO Z1, Informacijska tehnologija****prEN 17071 en**

Information technology – Automatic identification and data capture techniques – Electronic identification plate

**prEN 419221-5 en**

Protection profiles for Trust Service Provider Cryptographic modules – Part 5: Cryptographic Module for Trust Services

**HZN/TO Z2, Ocjenjivanje sukladnosti i akreditacija****prEN ISO/IEC 17025 en**

General requirements for the competence of testing and calibration laboratories  
(ISO/IEC DIS 17025:2016)

Opći zahtjevi za osposobljenost ispitnih i umjernih laboratorijskih (ISO/IEC DIS 17025:2016)

**HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1****prEN ISO 22300 en**

Societal security – Terminology (ISO/DIS 22300:2017)

Društvena sigurnost – Nazivlje (ISO/DIS 22300:2017)

**HZN/TU I2, Strojarstvo 2****prEN 215 en**

Thermostatic radiator valves – Requirements and test methods

Termostatski radijatorski ventili – Zahtjevi i metode ispitivanja

**FprEN 267 en**

Forced draught burners for liquid fuels

Pretlačni plamenici za kapljivita goriva

**HZN/TU N1, Nemetalni materijali 1****prEN 1885 en**

Feather and down – Terms and definitions

Perje i pahuljica – Nazivi i definicije

**prEN 12131 en**

Feather and down – Test methods – Determination of the quantitative composition of feather and down (manual method)

Perje i pahuljica – Metode ispitivanja – Određivanje kvantitativnog sastava perja i pahuljice (ručna metoda)

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

### **prEN ISO 5832-2 en**

Implants for surgery – Metallic materials – Part 2: Unalloyed titanium (ISO/DIS 5832-2:2017)  
Kirurški implantati – Metalni materijali – 2. dio: Nelegirani titan (ISO/DIS 5832-2:2017)

### **prEN ISO 7886-3 en**

Sterile hypodermic syringes for single use – Part 3: Auto-disable syringes for fixed-dose immunization  
(ISO/DIS 7886-3:2016)

Sterilne šprice za potkožnu injekciju za jednokratnu upotrebu – 3. dio: Šprice s fiksnom dozom cjepiva  
s automatskom blokadom (ISO/DIS 7886-3:2016)

### **EN ISO 20126:2012/prA1 en**

Dentistry – Manual toothbrushes – General requirements and test methods  
Stomatologija – Ručne četkice za zube – Opći zahtjevi i metode ispitivanja

### **prEN ISO 21533 en**

Dentistry – Reusable cartridge syringes intended for intraligamentary injections (ISO/DIS 21533:2016)  
Stomatologija – Višekratne štrcaljke s ampulom za intraligamentnu injekciju (ISO/DIS 21533:2016)

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

### **FprEN 3302 en**

Aerospace series – Bolts in heat resisting steel FE-PM1708 (FV535) – Classification: 1 000 MPa/550 °C – Technical specification

Nizovi o zrakoplovstvu – Vijci od čelika otpornog na toplinu FE-PM1708 (FV535) – Klasifikacija: 1000 MPa/550 °C – Tehnička specifikacija

### **FprEN 4652-420 en**

Aerospace series – Connectors, coaxial, radio frequency – Part 420: Type 4, C interface – Crimp assembly version – Straight plug – Product standard

### **FprEN 4652-421 en**

Aerospace series – Connectors, coaxial, radio frequency – Part 421: Type 4, C interface – Crimp assembly version – Right angle plug – Product standard

### **FprEN 4674-003 en**

Aerospace series – Electrical cables, installation – Self-wrapping shielding (EMI) protective sleeve – Part 003: Open sleeve – Inside pressurized area – EMI protection 5 kA – Temperature range -65 °C to 200 °C – Product standard

Zrakoplovstvo – Električni kabeli, ugradnja – Samoomatajuća, oklopljena (EMI) zaštitna navlaka – Dio 003: Otvorena navlaka – Unutarnje područje pod kontroliranim tlakom – EMI zaštita 5 kA – Temperaturni raspon od -65 °C do 200 °C – Norma za proizvod

### **FprEN 9100 en**

Quality Management Systems – Requirements for Aviation, Space and Defense Organizations  
Sustav upravljanja kvalitetom – Zahtjevi za zrakoplovstvo, organizacije za svemir i obranu

### **FprEN 9101 en**

Quality Management Systems – Audit Requirements for Aviation, Space, and Defence Organisations  
Sustavi upravljanja kvalitetom – Zahtjevi za audit za organizacije za zrakoplovstvo, svemir i obranu

### **FprEN 9110 en**

Quality Management Systems – Requirements for Aviation Maintenance Organizations  
Sustavi upravljanja kvalitetom – Zahtjevi za organizacije koje održavaju zrakoplove

### **FprEN 9120 en**

Quality Management Systems – Requirements for Aviation, Space and Defence Distributors  
Sustavi upravljanja kvalitetom – Zahtjevi za dobavljače u području zrakoplovstva, odbrane i svemira

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

### **FprEN 50090-6-1:2017 en**

Home and Building Electronic Systems (HBES) – Part 6-1: Interfaces – Webservice interface

### **EN 60068-2-58:2015/prA1:2016 en**

Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)  
(IEC 60068-2-58:2015/am1:201X)

### **prEN 60191-1:2016 en**

Mechanical standardization of semiconductor devices – Part 1: General rules for the preparation of outline drawings of discrete devices (IEC 60191-1:201X)

### **prEN 60793-2-10:2016 en**

Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres (IEC 60793-2-10:201X)

### **prEN 61076-3-119:2017 en**

Connectors for electronic equipment – Product requirements – Part 3-119: Rectangular connectors – Detail specification for unshielded, free and fixed 10 way connectors with push-pull coupling for industrial environments with frequencies up to 100 MHz (IEC 61076-3-119:201X)

### **prEN 61191-3:2016 en**

Printed board assemblies – Part 3: Sectional specification – Requirements for through-hole mount soldered assemblies (IEC 61191-3:201X)

### **prEN 61191-4:2016 en**

Printed board assemblies – Part 4: Sectional specification – Requirements for terminal soldered assemblies (IEC 61191-4:201X)

### **prEN 61281-1:2016 en**

Fibre optic communication subsystems – Part 1: Generic specification (IEC 61281-1:201X)

### **prEN 62148-1:2016 en**

Fibre optic active components and devices – Package and interface standards – Part 1: General and guidance (IEC 62148-1:201X)

### **prEN 62807-1:2017 en**

Hybrid telecommunication cables – Part 1: Generic specification (IEC 62807-1:201X)

### **prEN 62938:2016 en**

Non-uniform snow load testing for photovoltaic (PV) modules (IEC 62938:201X)

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

### **prEN 50291-1:2017 en**

Gas detectors – Electrical apparatus for the detection of carbon monoxide in domestic premises – Part 1: Test methods and performance requirements

### **prEN 60350-2:2017 en**

Household electric cooking appliances – Part 2: Hobs – Methods for measuring performance (IEC 60350-2:201X)

Kućanski električni aparati za kuhanje – 2. dio: Električna ugradbena ploča – Metode ispitivanja za mjerjenje radnih značajka (IEC 60350-2:201X)

### **prEN 60350-2:2017/FprAA:2017 en**

Household electric cooking appliances – Part 2: Hobs – Methods for measuring performance  
Kućanski električni aparati za kuhanje – 2. dio: Električna ugradbena ploča – Metode ispitivanja za mjerjenje radnih značajka

**prEN 62246-1-1:2016 en**

Reed switches – Part 1-1: Detail specification – Quality assessment (IEC 62246-1-1:201X)

**FprEN 62841-3-13:2016/FprAA:2016 en**

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-13: Particular requirements for transportable drills

Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-13: Posebni zahtjevi za prijenosne bušilice

**prEN 62933-2-1:2017 en**

Electrical energy storage (EES) systems – Part 2-1: Unit parameters and testing methods – General specification (IEC 62933-2-1:201X)

## 1.4 Povučene hrvatske norme

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavodaza norme donosi odluku o povlačenju hrvatske norme kada je donesena nova hrvatska norma ili kada je postojeća hrvatska norma postala neprimjenjiva. Kada je koje područje uređeno propisima i neki od propisa (pravilnik, naredba, naputak) upućuje na norme koje su povučene, one se primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe novih, na raspolaganju u Normoteci HZN-a.

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

**HRN EN 644:2002 en**

Papir – Neobrezani formati – Označivanje i tolerancije te obilježavanje smjera izrade kod prvočitnog i dopunskog opsega (EN 644:1999)

Paper – Untrimmed sizes – Primary range and supplementary range designation and tolerances, expression of direction of manufacture (EN 644:1999)  
- bez zamjene

**HRN EN ISO 12625-4:2008 en**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 4. dio: Određivanje vlačne čvrstoće, prekidnog istezanja i utrošene energije pri kidanju (ISO 12625-4:2005; EN ISO 12625-4:2005)

Tissue paper and tissue products – Part 4: Determination of tensile strength, stretch at break and tensile energy absorption (ISO 12625-4:2005; EN ISO 12625-4:2005)  
- zamijenjena s: HRN EN ISO 12625-4:2017

**HRN EN ISO 12625-5:2008 en**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 5. dio: Određivanje prekidne čvrstoće u mokrom stanju (ISO 12625-5:2005; EN ISO 12625-5:2005)

Tissue paper and tissue products – Part 5: Determination of wet tensile strength (ISO 12625-5:2005; EN ISO 12625-5:2005)  
- zamijenjena s: HRN EN ISO 12625-5:2017

**HRN EN ISO 12625-6:2008 en**

Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 6. dio: Određivanje gramature (ISO 12625-6:2005; EN ISO 12625-6:2005)

Tissue paper and tissue products – Part 6: Determination of grammage (ISO 12625-6:2005; EN ISO 12625-6:2005)  
- zamijenjena s: HRN EN ISO 12625-6:2017

**HRN EN 21974:2008 en**

Papir – Određivanje otpora na cijepanje (Elmendorfova metoda) (ISO 1974:1990; EN 21974:1994)

Paper – Determination of tearing resistance (Elmendorf method) (ISO 1974:1990; EN 21974:1994)

- zamijenjena s: HRN EN ISO 1974:2012

**HRN EN 23035:2008 en**

Dvoslojni i troslojni valoviti karton – Određivanje otpornosti ravne ploče na pritisak (metoda FCT) (ISO 3035:1982; EN 23035:1994)  
Single-faced and single-wall corrugated fibreboard – Determination of flat crush resistance (ISO 3035:1982; EN 23035:1994)  
- zamijenjena s: HRN EN ISO 3035:2012

**HZN/TO 22, Cestovna vozila****HRN EN 12736:2002 en**

Cestovna vozila na električni pogon – Zračna zvučna buka vozila pri punjenju ugrađenim punjačima – Određivanje razine jačine zvuka (EN 12736:2001)  
Electrically propelled road vehicles – Airborne acoustical noise of vehicle during charging with on-board chargers – Determination of sound power level (EN 12736:2001)  
- bez zamjene

**HZN/TO 23, Traktori i strojevi za poljoprivrodu i šumarstvo****HRN EN 609-1:2010 en**

Poljoprivredna i šumarska mehanizacija – Sigurnost cjepača – 1. dio: Klinasti cjepači (EN 609-1:1999+A2:2009)  
Agricultural and forestry machinery – Safety of log splitters – Part 1: Wedge splitters (EN 609-1:1999+A2:2009)  
- zamijenjena s: HRN EN 609-1:2017

**HRN EN 704:2010 en**

Poljoprivredna mehanizacija – Sakupljači bala – Sigurnost (EN 704:1999+A1:2009)  
Agricultural machinery – Pick-up balers – Safety (EN 704:1999+A1:2009)  
- zamijenjena s: HRN EN ISO 4254-11:2012

**HRN EN 745:2010 en**

Poljoprivredna mehanizacija – Kružne vertikalne kosilice i sitnilice (mulcheri) – Sigurnost (EN 745:1999+A1:2009)  
Agricultural machinery – Rotary mowers and flail-mowers – Safety (EN 745:1999+A1:2009)  
- zamijenjena s: HRN EN ISO 4254-12:2013

**HRN EN 12761-1:2008 en**

Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 1. dio: Općenito (EN 12761-1:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 1: General (EN 12761-1:2001)  
- zamijenjena s: HRN EN ISO 16119-1:2013

**HRN EN 12761-2:2008 en**

Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 2. dio: Prskalice za zaštitu ratarskih kultura (EN 12761-2:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 2: Field crop sprayers (EN 12761-2:2001)  
- zamijenjena s: HRN EN ISO 16119-2:2013

**HRN EN 12761-3:2008 en**

Poljoprivredna i šumarska mehanizacija – Prskalice i raspodjeljivači tekućih gnojiva – Zaštita okoliša – 3. dio: Prskalice sa zračnom podrškom (orošivači) za žbunje i drveće (EN 12761-3:2001)  
Agricultural and forestry machinery – Sprayers and liquid fertilizer distributors – Environmental protection – Part 3: Air-assisted sprayers for bush and tree crops (EN 12761-3:2001)  
- zamijenjena s: HRN EN ISO 16119-3:2013

**HRN EN 14861:2010 en**

Šumarska mehanizacija – Samohodni strojevi – Sigurnosni zahtjevi (EN 14861:2004+A1:2009)

Forest machinery – Self propelled machinery – Safety requirements (EN 14861:2004+A1:2009)

- zamijenjena s: HRN EN ISO 11850:2013

**HZN/TO 28, Naftni proizvodi i maziva****HRN EN 12:1998 en**

Naftni proizvodi – Određivanje tlaka para po Reidu – Mokra metoda (EN 12:1993)

Petroleum products – Determination of Reid vapour pressure – Wet method (EN 12:1993)

- bez zamjene

**HRN EN 14213:2008 en**

Loživa ulja – Metilni esteri masnih kiselina (FAME) – Zahtjevi i metode ispitivanja (EN 14213:2003+AC:2003)

Heating fuels – Fatty acid methyl esters (FAME) – Requirements and test methods (EN 14213:2003+AC:2003)

- bez zamjene

**HRN EN 24260:1997 en**

Naftni proizvodi i ugljikovodici – Određivanje količine sumpora – Metoda izgaranja po Wickboldu (ISO 4260:1987; EN 24260:1994)

Petroleum products and hydrocarbons – Determination of sulfur content – Wickbold combustion method (ISO 4260:1987; EN 24260:1994)

- bez zamjene

**HZN/TO 34, Poljoprivredni i prehrambeni proizvodi****HRN ISO 1871:1999 en**

Poljoprivredni prehrambeni proizvodi – Općenite upute za određivanje dušika Kjeldahlovom metodom (ISO 1871:1975)

Agricultural food products – General directions for the determination of nitrogen by the Kjeldahl method (ISO 1871:1975)

- zamijenjena s: HRN ISO 1871:2017

**HRN ISO 10727:2001 en**

Čaj i instant-čaj u krutome obliku – Određivanje sadržaja kofeina – Metoda tekuće kromatografije visokog učinka (ISO 10727:1995)

Tea and instant tea in solid form – Determination of caffeine content – Method using high-performance liquid chromatography (ISO 10727:1995)

- zamijenjena s: HRN ISO 10727:2017

**HZN/TO 35, Boje i lakovi****HRN EN ISO 2814:2006 en**

Boje i lakovi – Određivanje pokrivne moći boja istog tipa i istog obojenja (ISO 2814:1973; EN ISO 2814:2006)

Paints and varnishes – Comparison of contrast ratio (hiding power) of paints of the same type and colour (ISO 2814:1973; EN ISO 2814:2006)

- bez zamjene

**HRN EN ISO 3678:1999 en**

Boje i lakovi – Ispitivanje otiska (ISO 3678:1976; EN ISO 3678:1995)

Paints and varnishes – Print-free test (ISO 3678:1976; EN ISO 3678:1995)

- zamijenjena s: HRN EN ISO 9117-6:2013

**HRN EN ISO 3682:1999 en**

Veziva za boje i lakove – Određivanje kiselinskog broja – Titrimetrijska metoda (ISO 3682:1996; EN ISO 3682:1998)  
Binders for paints and varnishes – Determination of acid value – Titrimetric method (ISO 3682:1996; EN ISO 3682:1998)  
- zamijenjena s: HRN EN ISO 2114:2008

**HRN EN ISO 4622:1999 en**

Boje i lakovi – Tlačno ispitivanje otpornosti na sljepljivanje (ISO 4622:1992; EN ISO 4622:1994)  
Paints and varnishes – Pressure test for stackability (ISO 4622:1992; EN ISO 4622:1994)  
- zamijenjena s: HRN EN ISO 9117-2:2011

**HRN EN ISO 8502-8:2005 en**

Priprema čeličnih podloga prije nanošenja boja i srodnih proizvoda – Ispitivanja za procjenu čistoće površine – 8. dio: Terenska metoda određivanja vlage refraktometrom (ISO 8502-8:2001; EN ISO 8502-8:2004)  
Preparation of steel substrates before application of paints and related products – Tests for the assessment of surface cleanliness – Part 8: Field method for the refractometric determination of moisture (ISO 8502-8:2001; EN ISO 8502-8:2004)  
- bez zamjene

**HRN EN 29117:1999 en**

Boje i lakovi – Određivanje potpuno suhog stanja i potrebnog vremena za potpuno sušenje – Metoda ispitivanja (ISO 9117:1990; EN 29117:1992)  
Paints and varnishes – Determination of trough-dry state and trough-dry time – Method of test (ISO 9117:1990; EN 29117:1992)  
- zamijenjena s: HRN EN ISO 9117-1:2010

**HZN/TO 43, Akustika****HRN ISO 2603:2000 en**

Kabine za simultano prevođenje – Opće značajke i oprema (ISO 2603:1998)  
Booth for simultaneous interpretation – General characteristics and equipment (ISO 2603:1998)  
- zamijenjena s: HRN EN ISO 2603:2017

**HRN ISO 4043:2000 en**

Pokretne kabine za simultano prevođenje – Opće značajke i oprema (ISO 4043:1998)  
Mobile booth for simultaneous interpretation – General characteristics and equipment (ISO 4043:1998)  
- zamijenjena s: HRN EN ISO 4043:2017

**HRN EN ISO 4869-4:2001 en**

Akustika – Štitnici sluha – 4. dio: Mjerenje efektivnih razina zvučnoga tlaka za naušnjake s upravljanjem pojačanja zvuka ovisno o razini zvuka (ISO/TR 4869-4:1998; EN ISO 4869-4:2000)  
Acoustics – Hearing protectors – Part 4: Measurement of effective sound pressure levels for level-dependent sound restoration ear muffs (ISO/TR 4869-4:1998; EN ISO 4869-4:2000)  
- bez zamjene

**HRN EN 26189:1999 en**

Akustika – Audiometrija praga sa čistim tonom i zračnom vodljivošću za potrebe zaštite sluha (ISO 6189:1983; EN 26189:1991)  
Acoustics – Pure tone air conduction threshold audiometry for hearing conservation purposes (ISO 6189:1983; EN 26189:1991)  
- zamijenjena s: HRN EN ISO 8253-1:2010

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

### **HRN EN 288-9:2001 en**

Specifikacija i odobravanje postupaka zavarivanja za metalne materijale – 9. dio: Ispitivanje postupka zavarivanja za sučeljeno zavarivanje magistralnih cjevovoda na gradilištu, na kopnu i u pomorju (EN 288-9:1999)

Specification and approval of welding procedures for metallic materials – Part 9: Welding procedure test for pipeline welding on land and offshore site butt welding of transmission pipelines

(EN 288-9:1999)

- bez zamjene

### **HRN EN 876:1999 en**

Razorno ispitivanje zavara metalnih materijala – Uzdužno vlačno ispitivanje zavara nastalih taljenjem (EN 876:1995)

Destructive tests on welds in metallic materials – Longitudinal tensile test on weld metal in fusion welded joints (EN 876:1995)

- zamijenjena s: HRN EN ISO 5178:2012

### **HRN EN ISO 7284:2001 en**

Oprema za elektrootporno zavarivanje – Posebne specifikacije primjenljive na transformatore s dva odvojena sekundarna namotaja za višetočkasto zavarivanje koje se primjenjuje u automobilskoj industriji (ISO 7284:1993; EN ISO 7284:1996)

Resistance welding equipment – Particular specifications applicable to transformers with two separate secondary windings for multi-spot welding as used in the automobile industry (ISO 7284:1993; EN ISO 7284:1996)

- bez zamjene

### **HRN EN ISO 8166:2004 en**

Elektrootporno zavarivanje – Postupak za određivanje vijeka trajanja elektroda za točkasto zavarivanje uporabom stalnih parametara uređaja (ISO 8166:2003; EN ISO 8166:2003)

Resistance welding – Procedure for the evaluation of the life of spot welding electrodes using constant machines settings (ISO 8166:2003; EN ISO 8166:2003)

- bez zamjene

### **HRN EN ISO 10675-1:2013 en**

Nerazorno ispitivanje zavarenih spojeva – Razine prihvatljivosti za radiografsko ispitivanje – 1. dio: Čelik, nikl, titan i njihove legure (ISO 10675-1:2008; EN ISO 10675-1:2013)

Non-destructive testing of welds – Acceptance levels for radiographic testing – Part 1: Steel, nickel, titanium and their alloys (ISO 10675-1:2008; EN ISO 10675-1:2013)

- zamijenjena s: HRN EN ISO 10675-1:2017

### **HRN CR 12361:1999 en**

Razorno ispitivanje zavara metalnih materijala – Sredstva za nagrizanje za makroskopsko i mikroskopsko ispitivanje (CR 12361:1996)

Destructive tests on welds in metallic materials – Etchants for macroscopic and microscopic examination (CR 12361:1996)

- bez zamjene

### **HRN CR 12361/AC:2001 en**

Razorna ispitivanja zavara metalnih materijala – Sredstva za nagrizanje za mikroskopska i makroskopska ispitivanja (CR 12361:1996/AC:1997)

Destructive tests on welds in metallic materials – Etchants for macroscopic and microscopic examination (CR 12361:1996/AC:1997)

- bez zamjene

**HRN EN 13918:2004 en**

Oprema za plinsko zavarivanje – Regulatori s integriranim mjeračima protoka na bocama za zavarivanje, rezanje i srodne postupke – Razredba, specifikacija i ispitivanja (EN 13918:2003)  
Gas welding equipment – Integrated flowmeter regulators used on cylinders for welding, cutting and allied processes – Classification, specification and tests (EN 13918:2003)

- zamijenjena s: HRN EN ISO 2503:2010

**HRN EN ISO 17635:2010 en**

Nerazorno ispitivanje zavara – Opća pravila za metalne materijale (ISO 17635:2010;  
EN ISO 17635:2010)  
Non-destructive testing of welds – General rules for metallic materials (ISO 17635:2010;  
EN ISO 17635:2010)

- zamijenjena s: HRN EN ISO 17635:2017

**HRN EN ISO 17637:2012 en**

Nerazorno ispitivanje zavarenih spojeva – Vizualno ispitivanje zavarenih spojeva nastalih taljenjem  
(ISO 17637:2003; EN ISO 17637:2011)  
Non-destructive testing of welds – Visual testing of fusion-welded joints (ISO 17637:2003;  
EN ISO 17637:2011)

- zamijenjena s: HRN EN ISO 17637:2017

**HRN EN 30042:2002 en**

Elektrolučno zavareni spojevi aluminija i njegovih zavarivih legura – Upute za razine kakvoće s obzirom na nepravilnosti (ISO 10042:1992; EN 30042:1994)  
Arc-welded joints in aluminium and its weldable alloys – Guidance on quality levels for imperfections  
(ISO 10042:1992; EN 30042:1994)

- zamijenjena s: HRN EN ISO 10042:2008

**HZN/TO 69, *Primjena statističkih metoda*****HRN ISO 13528:2012 en**

Statističke metode pri ispitivanju sposobnosti putem međulaboratorijskih usporedbi (ISO 13528:2005)  
Statistical methods for use in proficiency testing by interlaboratory comparisons (ISO 13528:2005)

- zamijenjena s: HRN ISO 13528:2017

**HRI ISO/TR 22514-4:2012 en**

Statističke metode pri upravljanju procesima – Sposobnost i izvedba – 4. dio: Procjene sposobnosti procesa i mjere izvedbe (ISO/TR 22514-4:2007)  
Statistical methods in process management – Capability and performance – Part 4: Process capability estimates and performance measures (ISO/TR 22514-4:2007)

- zamijenjena s: HRI ISO 22514-4:2017

**HZN/TO 74, *Cement i vapno*****HRN ENV 196-4:2004 en**

Metode ispitivanja cementa – 4. dio: Kvantitativno određivanje sastojaka (ENV 196-4:1993)  
Methods of testing cement – Part 4: Quantitative determination of constituents (ENV 196-4:1993)

- zamijenjena s: HRI CEN/TR 196-4:2017

**HRN EN 14216:2006 hr**

Cement – Sastav, specifikacije i kriteriji sukladnosti za posebne vrste cemenata vrlo niske topline hidratacije (EN 14216:2004)  
Cement – Composition, specifications and conformity criteria for very low heat special cements  
(EN 14216:2004)

- zamijenjena s: HRN EN 14216:2015

**HRN CR 14245:2004 en**

Smjernice za primjenu EN 197-2 "Vrednovanje sukladnosti" (CR 14245:2001)  
Guidelines for the application of EN 197-2 "Conformity Evaluation" (CR 14245:2001)

- zamijenjena s: HRI CEN/TR 14245:2017

**HRN EN 15743:2010 en**

Supersulfatni cement – Sastav, specifikacije i kriteriji sukladnosti (EN 15743:2010)

Supersulfated cement – Composition, specifications and conformity criteria (EN 15743:2010)

- zamijenjena s: HRN EN 15743:2015

**HNZ/TO 86, Uređaji za hlađenje, klimatizaciju i dizalice topline****HRN EN 153:2008 en**

Metode mjerenja potrošnje energije električnih kućanskih hladnjaka, ormara za skladištenje zamrznute hrane, zamrzivača hrane i njihovih kombinacija zajedno s pripadajućim karakteristikama (EN 153:2006)

Methods of measuring the energy consumption of electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations, together with associated characteristics (EN 153:2006)

- zamijenjena s: HRN EN 62552:2013

**HRN EN ISO 15502:2008 en**

Kućanski rashladni uređaji – Značajke i ispitne metode (ISO 15502:2005+Cor 1:2007;

EN ISO 15502:2005+AC:2007)

Household refrigerating appliances – Characteristics and test methods (ISO 15502:2005+Cor 1:2007; EN ISO 15502:2005+AC:2007)

- zamijenjena s: HRN EN 62552:2013

**HRN EN 16147:2012 en**

Dizalice topline s kompresorima na električni pogon – Ispitivanja i zahtjevi za označivanje uređaja za pripremu potrošne tople vode (EN 16147:2011+AC:2011)

Heat pumps with electrically driven compressors – Testing and requirements for marking for domestic hot water units (EN 16147:2011+AC:2011)

- zamijenjena s: HRN EN 16147:2017

**HRN EN 28960:2008 en**

Hladnjaci, ormari za skladištenje zamrznute hrane i zamrzivači za kućansku i sličnu uporabu – Mjerenje buke koja se prenosi zrakom (ISO 8960:1991; EN 28960:1993)

Refrigerators, frozen-food storage cabinets and food freezers for household and similar use – Measurement of emission of airborne acoustical noise (ISO 8960:1991; EN 28960:1993)

- bez zamjene

**HNZ/TO 89, Furniri idrvne ploče****HRN EN 1072:1999 en**

Uslojeno drvo – Prikaz savojnih svojstava građevnoga uslojenog drva (EN 1072:1995)

Plywood – Description of bending properties for structural plywood (EN 1072:1995)

- bez zamjene

**HRN EN 1084:2003 en**

Uslojeno drvo – Razredi emisije formaldehida određeni plinskom analitičkom metodom (EN 1084:1995)

Plywood – Formaldehyde release classes determined by the gas analysis method (EN 1084:1995)

- bez zamjene

**HNZ/TO 108, Mehaničke vibracije i udari****HRN CR 1030-2:2000 en**

Vibracije ruke – Smjernice za smanjenje rizika uslijed vibracija – 2. dio: Organizacijske mjere na radnom mjestu (CR 1030-2:1995)

Hand-arm vibration – Guidelines for vibration hazards reduction – Part 2: Management measures at the workplace (CR 1030-2:1995)

- zamijenjena s: HRI CEN/TR 1030-2:2017

## **HNZ/TO 120, Koža i obuća**

### **HRN EN ISO 5399:2008 en**

Koža – Određivanje vodotopljivih magnezijevih soli – Metoda titracije s EDTA (ISO 5399:1984; EN ISO 5399:1998)  
Leather – Determination of water-soluble magnesium salts – EDTA titrimetric method (ISO 5399:1984; EN ISO 5399:1998)  
- bez zamjene

### **HRN EN 12748:2004 en**

Obuća – Metode ispitivanja potplata, tabanica, podstave i uložnih tabanica – Količina tvari topljivih u vodi (EN 12748:1999)  
Footwear – Test methods for outsoles, insoles, lining and insocks – Water soluble content (EN 12748:1999)  
- zamijenjena s: HRN EN ISO 20869:2011

### **HRN EN 12784:2004 en**

Obuća – Metode ispitivanja obuće – Toplinska izolacija (EN 12784:1999)  
Footwear – Test methods for whole shoe – Thermal insulation (EN 12784:1999)  
- zamijenjena s: HRN EN ISO 20877:2011

### **HRN EN 13335:2004 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na savijanje vamp flex metodom (EN 13335:2002)  
Leather – Physical and mechanical tests – Determination of flex resistance by vamp flex method (EN 13335:2002)  
- bez zamjene

### **HRN EN 13540:2004 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje otpornost lak kože na visoke temperature (EN 13540:2002)  
Leather – Physical and mechanical tests – Determination of heat resistance of patent leather (EN 13540:2002)  
- zamijenjena s: HRN EN ISO 17232:2010

### **HRN EN 14288:2008 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje značajki zamagljivanja (EN 14288:2003)  
Leather – Physical and mechanical tests – Determination of fogging characteristics (EN 14288:2003)  
- zamijenjena s: HRN EN ISO 17071:2011

### **HRN EN 14289:2008 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje vodonepropusnosti (EN 14289:2003)  
Leather – Physical and mechanical tests – Determination of water penetration pressure (EN 14289:2003)  
- zamijenjena s: HRN EN ISO 17230:2011

### **HRN EN 14326:2008 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na horizontalno širenje plamena (EN 14326:2003)  
Leather – Physical and mechanical tests – Determination of resistance to horizontal spread of flame (EN 14326:2003)  
- zamijenjena s: HRN EN ISO 17074:2011

### **HRN EN 14327:2008 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje otpornosti na habanje kože za presvlake za vozila (EN 14327:2003)  
Leather – Physical and mechanical tests – Determination of abrasion resistance of automotive leather (EN 14327:2003)  
- zamijenjena s: HRN EN ISO 17076-1:2012, HRN EN ISO 17076-2:2011

**HRN EN 14340:2008 en**

Koža – Fizikalna i mehanička ispitivanja – Određivanje vodooodbojnosti kože za odjeću  
(EN 14340:2004)

Leather – Physical and mechanical tests – Determination of water repellency of garment leather  
(EN 14340:2004)

- zamijenjena s: HRN EN ISO 17231:2011

**HZN/TO 121, Anestetička i respiracijska oprema****HRN EN 794-1:2010 en**

Plućni ventilatori – 1. dio: Posebni zahtjevi za ventilatore u jedinici intenzivnog liječenja  
(EN 794-1:1997+A2:2009)

Lung ventilators – Part 1: Particular requirements for critical care ventilators (EN 794-1:1997+A2:2009)

- zamijenjena s: HRN EN ISO 80601-2-12:2011

**HRN EN ISO 9919:2010 en**

Medicinski električni uređaji – Posebni zahtjevi za osnovnu sigurnost i nužne značajke opreme za pulsnu oksimetriju u medicinske svrhe (ISO 9919:2005; EN ISO 9919:2009)

Medical electrical equipment – Particular requirements for the basic safety and essential performance of pulse oximeter equipment for medical use (ISO 9919:2005; EN ISO 9919:2009)

- zamijenjena s: HRN EN ISO 80601-2-61:2011

**HRN EN 12181:2004 en**

Osigurači zračnog puta za usta i ždrijelo (EN 12181:1998)

Oropharyngeal airways (EN 12181:1998)

- bez zamjene

**HRN EN ISO 21647:2010 en**

Medicinski električni uređaji – Posebni zahtjevi za osnovnu sigurnost i nužne značajke zaslona za mjerjenje plinova (ISO 21647:2004+Cor 1:2005; EN ISO 21647:2009)

Medical electrical equipment – Particular requirements for the basic safety and essential performance of respiratory gas monitors (ISO 21647:2004+Cor 1:2005; EN ISO 21647:2009)

- zamijenjena s: HRN EN ISO 80601-2-55:2012

**HZN/TO 134, Gnojiva i poboljšivači tla****HRN ISO 8157:1998 hr,en,fr**

Gnojiva i poboljšivači tla – Rječnik (ISO 8157:1984)

Fertilizers and soil conditioners – Vocabulary (ISO 8157:1984)

- zamijenjena s: HRN ISO 8157:2017

**HRN EN 15961:2012 en**

Gnojiva – Ekstrakcija vodotopivog kalcija, magnezija, natrija i sumpora u obliku sulfata  
(EN 15961:2011)

Fertilizers – Extraction of water-soluble calcium, magnesium, sodium and sulfur in the form of sulfates  
(EN 15961:2011)

- zamijenjena s: HRN EN 15961:2017

**HZN/TO 135, Nerazorna ispitivanja****HRN EN ISO 9934-1:2015 en**

Nerazorno ispitivanje – Ispitivanje magnetnim česticama – 1. dio: Opća načela (ISO 9934-1:2015;  
EN ISO 9934-1:2015)

Non-destructive testing – Magnetic particle testing – Part 1: General principles (ISO 9934-1:2015;  
EN ISO 9934-1:2015)

- zamijenjena s: HRN EN ISO 9934-1:2017

**HRN EN 13860-1:2008 en**

Nerazorno ispitivanje – Ispitivanje vrtložnim strujama – Svojstva i provjeravanje opreme – 1. dio:  
Svojstva i provjeravanje uređaja (EN 13860-1:2003)  
Non destructive testing – Eddy current examination – Equipment characteristics and verification – Part 1: Instrument characteristics and verification (EN 13860-1:2003)  
- bez zamjene

**HRN EN 13860-2:2008 en**

Nerazorno ispitivanje – Ispitivanje vrtložnim strujama – Svojstva i provjeravanje opreme – 2. dio:  
Svojstva i provjeravanje sonde (EN 13860-2:2003)  
Non destructive testing – Eddy current examination – Equipment characteristics and verification – Part 2: Probe characteristics and verification (EN 13860-2:2003)  
- bez zamjene

**HRN EN 13860-3:2008 en**

Nerazorno ispitivanje – Ispitivanje vrtložnim strujama – Svojstva i provjeravanje opreme – 3. dio:  
Svojstva i provjeravanje sustava (EN 13860-3:2003)  
Non destructive testing – Eddy current examination – Equipment characteristics and verification – Part 3: System characteristics and verification (EN 13860-3:2003)  
- zamijenjena s: HRN EN ISO 15548-3:2008

**HRI CEN/TR 15589:2008 en**

Nerazorno ispitivanje – Pravila za provođenje potvrđivanja NDT osoblja od priznate organizacije, koja ima status treće strane, prema uvjetima Direktive 97/23/EC (CEN/TR 15589:2007)  
Non destructive testing – Code of practice for the approval of NDT personnel by recognised third party organisations under the provisions of Directive 97/23/EC (CEN/TR 15589:2007)  
- zamijenjena s: HRI CEN/TR 15589:2017

**HNZ/TO 136, *Namještaj*****HRI CEN/TR 581-4:2008 en**

Vanjski namještaj – Namještaj za sjedenje i stolovi za kampiranje, kućnu i javnu uporabu – 4. dio:  
Zahtjevi i metode ispitivanja trajnosti pod utjecajem klimatskih uvjeta (CEN/TR 581-4:2005)  
Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 4: Requirements and test methods for durability under the influence of climatic conditions (CEN/TR 581-4:2005)  
- bez zamjene

**HRN EN 13453-1:2004 en**

Namještaj – Kreveti na kat i visoki kreveti koji nisu za uporabu u kućanstvu – 1. dio: Zahtjevi sigurnosti, čvrstoće i trajnosti (EN 13453-1:2004)  
Furniture – Bunk beds and high beds for non domestic use – Part 1: Safety, strength and durability requirements (EN 13453-1:2004)  
- bez zamjene

**HRN EN 13453-2:2004 en**

Namještaj – Kreveti na kat i visoki kreveti koji nisu za uporabu u kućanstvu – 2. dio: Metode ispitivanja (EN 13453-2:2004)  
Furniture – Bunk beds and high beds for non domestic use – Part 2: Test methods (EN 13453-2:2004)  
- bez zamjene

**HRS ENV 14443:2008 en**

Kućni namještaj – Namještaj za sjedenje – Metode ispitivanja za određivanje trajnosti ojastučenja (ENV 14443:2004)  
Domestic furniture – Seating – Test methods for the determination of durability of upholstery (ENV 14443:2004)  
- bez zamjene

**HRS CEN/TS 16611:2014 en**

Namještaj – Procjena otpornosti površine na mikroogrebotine (CEN/TS 16611:2014)

Furniture – Assessment of the surface resistance to microscratching (CEN/TS 16611:2014)

- zamijenjena s: HRS CEN/TS 16611:2017

**HZN/TO 138, *Plastične cijevi, spojnice i ventili za prijenos tekućina*****HRN EN 579:2003 en**

Plastični cijevni sustavi – Umrežene polietilenske cijevi (PE-X) – Određivanje stupnja umreženosti ekstrakcijom s otapalom (EN 579:1993)

Plastics piping systems – Crosslinked polyethylene (PE-X) pipes – Determination of degree of crosslinking by solvent extraction (EN 579:1993)

- zamijenjena s: HRN EN ISO 10147:2013

**HRN EN 714:2003 en**

Plastomerni cijevni sustavi – Spojevi između tlačnih cijevi i spojnica s elastomernom prstenastom brtvom bez djelovanja uzdužnog opterećenja – Ispitna metoda za nepropusnost pri unutarnjem hidrostatskom tlaku bez uzdužnog opterećenja (EN 714:1994)

Thermoplastics piping systems – Non-end-loading-bearing elastomeric sealing ring type joints between pressure pipes and moulded fittings – Test method for leaktightness under internal hydrostatic pressure without end thrust (EN 714:1994)

- bez zamjene

**HRN EN 922:2003 en**

Plastični cijevni i kanalni sustavi – Cijevi i spojnice od neomekšanog poli(vinil-klorida) (PVC-U) – Priprema ispitka za određivanje viskoznog broja i proračun K-vrijednosti (EN 922:1994)

Plastics piping and ducting systems – Pipes and fittings of unplasticized poly(vinyl chloride) (PVC-U) – Specimen preparation for determination of viscosity number and calculation of the K-value (EN 922:1994)

- zamijenjena s: HRN EN ISO 13229:2011

**HRN EN 1226:2003 en**

Plastični cijevni sustavi – Stakлом ojačane duromerne (GRP) cijevi – Ispitna metoda za provjeru otpornosti prema početnom obodnom progibu (EN 1226:1996)

Plastics piping systems – Glass-reinforced thermosetting plastics (GRP) pipes – Test method to prove the resistance to initial ring deflection (EN 1226:1996)

- bez zamjene

**HRN ENV 1401-3:2001 en**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 3. dio: Uputa za ugradbu (ENV 1401-3:2001)

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U) – Part 3: Guidance for installation (ENV 1401-3:2001)

- zamijenjena s: HRI CEN/TR 1046:2014

**HRN EN 1437:2007 en**

Plastični cijevni sustavi – Cijevni sustavi za podzemnu odvodnju i kanalizaciju – Ispitna metoda za otpornost prema istodobnoj cikličkoj promjeni temperature i vanjskog opterećenja (EN 1437:2002)

Plastics piping systems – Piping systems for underground drainage and sewerage – Test method for resistance to combined temperature cycling and external loading (EN 1437:2002)

- zamijenjena s: HRN EN ISO 13260:2011

**HRN ENV 1452-6:2001 en**

Plastični cijevni sustavi za opskrbu vodom – Neomekšani poli(vinil-klorid) (PVC-U) – 6. dio: Uputa za ugradbu (ENV 1452-6:2001)

Plastics piping systems for water supply – Unplasticized poly(vinyl chloride) (PVC-U) – Part 6: Guidance for installation (ENV 1452-6:2001)

- bez zamjene

**HRN EN 1453-1:2003 en**

Plastični cijevni sustavi s cijevima sa strukturiranim stjenkom za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar zgrada – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi i sustav (EN 1453-1:2000)

Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes and the system (EN 1453-1:2000)

- zamijenjena s: HRN EN 1453-1:2017

**HRN EN 1456-1:2003 en**

Plastični cijevni sustavi za nadzemnu i podzemnu tlačnu odvodnju i kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za komponente cjevovoda i sustav (EN 1456-1:2001)

Plastics piping systems for buried and above-ground drainage and sewerage under pressure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for piping components and the system (EN 1456-1:2001)

- zamijenjena s: HRN EN ISO 1452-1:2010, HRN EN ISO 1452-2:2010, HRN EN ISO 1452-4:2010

**HRN EN 1638:2003 en**

Plastični cijevni sustavi za netlačnu odvodnju i kanalizaciju – Stakлом ojačane duromerne (GRP) cijevi – Ispitna metoda za određivanje učinka cikličkoga unutarnjeg tlaka (EN 1638:1997)

Plastics piping systems for non-pressure drainage and sewerage – Glass-reinforced thermosetting plastics (GRP) pipes – Test method for the effects of cyclic internal pressure (EN 1638:1997)

- bez zamjene

**HRN CEN/TS 1852-3:2003 en**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 3. dio: Upute za ugradnju (CEN/TS 1852-3:2003)

Plastics piping system for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 3: Guidance for installation (CEN/TS 1852-3:2003)

- zamijenjena s: HRI CEN/TR 1046:2014

**HRN CEN/TS 1852-3/A1:2007 en**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 3. dio: Upute za ugradnju (CEN/TS 1852-3:2003/A1:2005)

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) - Part 3: Guidance for installation (CEN/TS 1852-3:2003/A1:2005)

- zamijenjena s: HRI CEN/TR 1046:2014

**HRN EN 1862:2003 en**

Plastični cijevni sustavi – Stakлом ojačane duromerne (GRP) cijevi – Određivanje relativnog faktora puzanja pri savijanju nakon izlaganja kemijskom utjecaju (EN 1862:1997)

Plastics piping systems – Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the relative flexural creep factor following exposure to a chemical environment (EN 1862:1997)

- bez zamjene

**HRN EN 13689:2007 en**

Smjernice za razredbu i projektiranje plastičnih cijevnih sustava koji se upotrebljavaju za obnovu (EN 13689:2002)

Guidance on the classification and design of plastics piping systems used for renovation (EN 13689:2002)

- zamijenjena s: HRN EN ISO 11295:2010

**HRN EN 14409-1:2004 en**

Plastični cijevni sustavi za obnavljanje podzemnih vodovodnih distribucijskih mreža – 1. dio: Općenito (EN 14409-1:2004)

Plastics piping systems for the renovation of underground water supply networks – Part 1: General (EN 14409-1:2004)

- zamijenjena s: HRN EN ISO 11298-1:2011

**HRN EN 14409-3:2004 en**

Plastični cijevni sustavi za obnavljanje podzemnih vodovodnih distribucijskih mreža – 3. dio:  
Obnavljanje s prijanjućim cijevima (EN 14409-3:2004)  
Plastics piping systems for the renovation of underground water supply networks – Part 3: Lining with close fit-pipes (EN 14409-3:2004)  
- zamijenjena s: HRN EN ISO 11298-3:2011

**HRN CEN/TS 14758-2:2007 en**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen s mineralnim modifikatorom(ima) (PP-MD) – 2. dio: Smjernice za ocjenu sukladnosti (CEN/TS 14758-2:2007)  
Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifier(s) (PP-MD) – Part 2: Guidance for the assessment of conformity (CEN/TS 14758-2:2007)

- zamijenjena s: HRS CEN/TS 14758-2:2017

**HRN CEN/TS 14758-3:2007 en**

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen s mineralnim modifikatorom(ima) (PP-MD) – 3. dio: Smjernice za ugradnju (CEN/TS 14758-3:2006)  
Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifier(s) (PP-MD) – Part 3: Guidance for installation (CEN/TS 14758-3:2006)  
- zamijenjena s: HRI CEN/TR 1046:2014

**HNZ/TO 146, Kvaliteta zraka****HRN EN 14789:2007 en**

Emisije iz stacionarnih izvora – Određivanje volumne koncentracije kisika (O<sub>2</sub>) – Referentna metoda – Paramagnetizam (EN 14789:2005)  
Stationary source emissions – Determination of volume concentration of oxygen (O<sub>2</sub>) – Reference method – Paramagnetism (EN 14789:2005)  
- zamijenjena s: HRN EN 14789:2017

**HRN EN 14790:2008 en**

Emisije iz stacionarnih izvora – Određivanje vodene pare u odvodnome kanalu (EN 14790:2005)  
Stationary source emissions – Determination of the water vapour in ducts (EN 14790:2005)  
- zamijenjena s: HRN EN 14790:2017

**HRN EN 14791:2006 en**

Emisije iz stacionarnih izvora – Određivanje masene koncentracije sumporova dioksida – Referentna metoda (EN 14791:2005)  
Stationary source emissions – Determination of mass concentration of sulphur dioxide – Reference method (EN 14791:2005)  
- zamijenjena s: HRN EN 14791:2017

**HRN EN 14792:2007 en**

Emisije iz stacionarnih izvora – Određivanje masene koncentracije dušikovih oksida (NO<sub>x</sub>) – Referentna metoda – Kemiluminescencija (EN 14792:2005)  
Stationary source emissions – Determination of mass concentration of nitrogen oxides (NO<sub>x</sub>) – Reference method – Chemiluminescence (EN 14792:2005)  
- zamijenjena s: HRN EN 14792:2017

**HRS CEN/TS 14793:2008 en**

Emisija iz stacionarnih izvora – Postupak laboratorijske validacije alternativne metode usporedbom s referentnom metodom (CEN/TS 14793:2005)  
Stationary source emission – Intralaboratory validation procedure for an alternative method compared to a reference method (CEN/TS 14793:2005)  
- zamijenjena s: HRN EN 14793:2017

**HRN EN 15058:2008 en**

Emisije iz stacionarnih izvora – Određivanje masene koncentracije ugljik monoksida (CO) – Referentna metoda – Nedisperzivna infracrvena spektrometrija (EN 15058:2006)  
Stationary source emissions – Determination of the mass concentration of carbon monoxide (CO) – Reference method – Non-dispersive infrared spectrometry (EN 15058:2006)  
- zamijenjena s: HRN EN 15058:2017

**HZN/TO 159, Ergonomija****HRN EN ISO 9241-7:2008 en**

Ergonomski zahtjevi za uredski rad s optičkim terminalima (VDT) – 7. dio: Zahtjevi za pokazivač s refleksijom (ISO 9241-7:1998; EN ISO 9241-7:1998)  
Ergonomic requirements for office work with visual display terminals (VDTs) – Part 7: Requirements for display with reflections (ISO 9241-7:1998; EN ISO 9241-7:1998)  
- zamijenjena s: HRN EN ISO 9241-302:2010, HRN EN ISO 9241-305:2010,  
HRN EN ISO 9241-307:2010

**HRN EN ISO 9241-8:2008 en**

Ergonomski zahtjevi za uredski rad s optičkim terminalima (VDT) – 8. dio: Zahtjevi za prikazane boje (ISO 9241-8:1997; EN ISO 9241-8:1997)  
Ergonomic requirements for office work with visual display terminals (VDTs) – Part 8: Requirements for displayed colours (ISO 9241-8:1997; EN ISO 9241-8:1997)  
- zamijenjena s: HRN EN ISO 9241-302:2010, HRN EN ISO 9241-305:2010

**HRN EN ISO 9241-9:2008 en**

Ergonomski zahtjevi za uredski rad s optičkim terminalima (VDT) – 9. dio: Zahtjevi za ulazne uređaje bez tipkovnica (ISO 9241-9:2000; EN ISO 9241-9:2000)  
Ergonomic requirements for office work with visual display terminals (VDTs) – Part 9: Requirements for non-keyboard input devices (ISO 9241-9:2000; EN ISO 9241-9:2000)  
- zamijenjena s: HRN EN ISO 9241-400:2008

**HRN EN ISO 9241-17:2004 en**

Ergonomski zahtjevi za uredski rad s vizualnim zaslonima (VDT) – 17. dio: Dijalozi za ispunjavanje obrazaca (ISO 9241-17:1998; EN ISO 9241-17:1998)  
Ergonomic requirements for office work with visual display terminals (VDTs) – Part 17: Form filling dialogues (ISO 9241-17:1998; EN ISO 9241-17:1998)  
- zamijenjena s: HRN EN ISO 9241-143:2012

**HRN EN 13202:2003 en**

Ergonomija toplinske okoline – Temperature dodirljivih vrućih površina – Smjernice za utvrđivanje graničnih vrijednosti površinskih temperatura u proizvodnim normama pomoću norme EN 563 (EN 13202:2000)  
Ergonomics of the thermal environment – Temperatures of touchable hot surfaces – Guidance for establishing surface temperature limit values in production standards with the aid of EN 563 (EN 13202:2000)  
- bez zamjene

**HRN EN ISO 13406-1:2004 en**

Ergonomski zahtjevi za rad s vizualnim zaslonima na temelju ravnih ekrana – 1. dio: Uvod (ISO 13406-1:1999; EN ISO 13406-1:1999)  
Ergonomic requirements for work with visual displays based on flat panels – Part 1: Introduction (ISO 13406-1:1999; EN ISO 13406-1:1999)  
- zamijenjena s: HRN EN ISO 9241-302:2010, HRN EN ISO 9241-305:2010

**HRN EN ISO 13406-2:2007 en**

Ergonomski zahtjevi za rad s vizualnim zaslonima ravnih površina – 2. dio: Ergonomski zahtjevi za zaslone ravnih površina (ISO 13406-2:2001; EN ISO 13406-2:2001)

Ergonomic requirements for work with visual displays based on flat panels – Part 2: Ergonomic requirements for flat panel displays (ISO 13406-2:2001; EN ISO 13406-2:2001)

- zamijenjena s: HRN EN ISO 9241-302:2010, HRN EN ISO 9241-305:2010,  
HRN EN ISO 9241-307:2010

**HRN EN ISO 13407:2004 en**

Dizajn procesa interaktivnih sustava orientiranih prema čovjeku (ISO 13407:1999;  
EN ISO 13407:1999)

Human-centred design processes for interactive systems (ISO 13407:1999; EN ISO 13407:1999)

- zamijenjena s: HRN EN ISO 9241-210:2010

**HRN EN 29241-3:2004 en**

Ergonomski zahtjevi za uredski rad s vizualnim zaslonima – 3. dio: Zahtjevi za vizualne zaslone  
(ISO 9241-3:1992+Amd 1:2000; EN 29241-3:1993+A1:2000)

Ergonomic requirements for office work with visual display terminals (VDTs) – Part 3: Visual display requirements (ISO 9241-3:1992+Amd 1:2000; EN 29241-3:1993+A1:2000)

- zamijenjena s: HRN EN ISO 9241-302:2010, HRN EN ISO 9241-304:2010,  
HRN EN ISO 9241-305:2010, HRN EN ISO 9241-307:2010

**HNZ/TO 165, Drvene konstrukcije****HRN EN 12465:2006 en**

Drveni stupovi za nadzemne vodove – Zahtjevi trajnosti (EN 12465:2001)

Wood poles for overhead lines – Durability requirements (EN 12465:2001)

- zamijenjena s: HRN EN 14229:2010

**HRN EN 12479:2006 en**

Drveni stupovi za nadzemne vodove – Dimenzije – Metode mjerenja i dopuštena odstupanja  
(EN 12479:2001)

Wood poles for overhead lines – Sizes – Methods of measurement and permissible deviations  
(EN 12479:2001)

- zamijenjena s: HRN EN 14229:2010

**HRN EN 12509:2006 en**

Drveni stupovi za nadzemne vodove – Metode ispitivanja – Određivanje modula elastičnosti, čvrstoće na savijanje, gustoće i vlažnosti (EN 12509:2001)

Timber poles for overhead lines – Test methods – Determination of modulus of elasticity, bending strength, density and moisture content (EN 12509:2001)

- zamijenjena s: HRN EN 14229:2010

**HRN EN 12510:2006 en**

Drveni stupovi za nadzemne vodove – Razvrstavanje prema čvrstoći (EN 12510:2001+AC:2002)

Wood poles for overhead lines – Strength grading criteria (EN 12510:2001+AC:2002)

- zamijenjena s: HRN EN 14229:2010

**HRN EN 12511:2006 en**

Drveni stupovi za nadzemne vodove – Određivanje karakterističnih vrijednosti (EN 12511:2001)

Wood poles for overhead lines – Determination of characteristic values (EN 12511:2001)

- zamijenjena s: HRN EN 14229:2010

**HRN EN 14081-4:2010 en**

Drvene konstrukcije – Konstrukcijsko drvo pravokutnoga poprečnog presjeka razvrstano prema čvrstoći – 4. dio: Strojno razvrstavanje – Prilagođavanje strojeva za razvrstavanje za strojno kontrolirane sustave (EN 14081-4:2009)

Timber structures – Strength graded structural timber with rectangular cross section – Part 4: Machine grading – Grading machine settings for machine controlled systems (EN 14081-4:2009)

- zamijenjena s: HRN EN 14081-1:2016

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

### **HRN EN 71-12:2013 en**

Sigurnost igračaka – 12. dio: N-nitrozamini i prekursori nitrozamina (EN 71-12:2013)  
Safety of toys – Part 12: N-nitrosamines and N-nitrosatable substances (EN 71-12:2013)  
- zamijenjena s: HRN EN 71-12:2017

### **HRN EN 12868:2003 en**

Proizvodi za dojenčad i malu djecu – Metode za određivanje sadržaja oslobođenih N-nitrozamina i prekursora N-nitrozamina iz duda za bočicu i duda varalica izrađenih od elastomera ili gume (EN 12868:1999+AC:2002)  
Child use and care articles – Methods for determining the release of N-Nitrosamines and N-Nitrosatable substances from elastomer or rubber and soothers (EN 12868:1999+AC:2002)  
- zamijenjena s: HRN EN 12868:2017

### **HRN CR 14379:2003 en**

Razredba igračaka – Smjernice (CR 14379:2002)  
Classification of toys – Guidelines (CR 14379:2002)  
- bez zamjene

### **HRN EN 16120:2014 en**

Proizvodi za dojenčad i malu djecu – Sjedalica koja se pričvršćuje za stolicu (EN 16120:2012+A1:2014)  
Child use and care articles – Chair mounted seat (EN 16120:2012+A1:2014)  
- zamijenjena s: HRN EN 16120:2017

### **HRI CEN/TR 16411:2014 en**

Proizvodi za dojenčad i malu djecu – Kompilacija tumačenja norma iz područja rada CEN/TC 252 za 2014. godinu (CEN/TR 16411:2014)  
Child use and care articles – 2014 compiled interpretations of CEN/TC 252 standards (CEN/TR 16411:2014)  
- zamijenjena s: HRI CEN/TR 16411:2017

## **HN/T 184, Sustavi industrijske automatizacije i integracija**

### **HRS CEN/TS 16658:2014 en**

Zahtjevi za uspostavu međuoperativnosti procesa proizvodnih poduzeća – Završni model za procjenu međuoperativnosti poduzeća (CEN/TS 16658:2014)  
Requirements for establishing manufacturing enterprise process interoperability – Maturity model for assessing enterprise interoperability (CEN/TS 16658:2014)  
- bez zamjene

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

### **HRN EN 13919:2003 en**

Ispitne metode prirodnog kamena – Određivanje otpornosti na SO<sub>2</sub> u vlažnim uvjetima (EN 13919:2002)  
Natural stone test methods – Determination of resistance to ageing by SO<sub>2</sub> action in the presence of humidity (EN 13919:2002)  
- bez zamjene

## **HN/T 211, Geoinformacije/Geomatika**

### **HRN EN ISO 19110:2008 en**

Geoinformacije – Metodologija za izradu kataloga objekata (ISO 19110:2005; EN ISO 19110:2006)  
Geographic information – Methodology for feature cataloguing (ISO 19110:2005; EN ISO 19110:2006)  
- zamijenjena s: HRN EN ISO 19110:2017

**HRN EN ISO 19110:2008/A1:2013 en**

Geoinformacije – Metodologija za izradu kataloga objekata – Amandman 1

(ISO 19110:2005/Amd 1:2011; EN ISO 19110:2006/A1:2011)

Geographic information – Methodology for feature cataloguing – Amendment 1

(ISO 19110:2005/Amd 1:2011; EN ISO 19110:2006/A1:2011)

- zamjenjena s: HRN EN ISO 19110:2017

**HRN EN ISO 19135:2008 en**

Geoinformacije – Postupci za registraciju stavki (ISO 19135:2005; EN ISO 19135:2007)

Geographic information – Procedures for item registration (ISO 19135:2005; EN ISO 19135:2007)

- zamjenjena s: HRN EN ISO 19135-1:2015

**HZN/TO 215, Medicinska informatika****HRS ENV 12610:2012 en**

Medicinska informatika – Identifikacija medicinskih proizvoda (ENV 12610:1997)

Medical informatics – Medicinal product identification (ENV 12610:1997)

- bez zamjene

**HRS ENV 12611:2012 en**

Medicinska informatika – Kategorijска struktura sustava koncepata – Medicinski uređaji (ENV 12611:1997)

Medical informatics – Categorical structure of systems of concepts – Medical devices (ENV 12611:1997)

- bez zamjene

**HRN ENV 13607:2004 en**

Medicinska informatika – Poruke za razmjenu informacija na receptu za lijek (ENV 13607:2000)

Health informatics – Messages for the exchange of information on medicine prescription (ENV 13607:2000)

- bez zamjene

**HRN EN ISO 21549-7:2008 en**

Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 7. dio: Podaci o propisanim lijekovima (ISO 21549-7:2007; EN ISO 21549-7:2007)

Health informatics – Patient healthcard data – Part 7: Medication data (ISO 21549-7:2007; EN ISO 21549-7:2007)

- zamjenjena s: HRN EN ISO 21549-7:2017

**HZN/TO 219, Podne obloge****HRN EN 664:2008 en**

Elastične podne obloge – Određivanje udjela hlapljivih tvari (EN 664:1994)

Resilient floor coverings – Determination of volatile loss (EN 664:1994)

- bez zamjene

**HRN EN 1470:2008 en**

Tekstilne podne obloge – Razredba iglanih podnih obloga osim iglanih podnih obloga s florom (EN 1470:2008)

Textile floor coverings – Classification of needleled floor coverings except for needle pile floor coverings (EN 1470:2008)

- bez zamjene

**HRN EN 1818:2008 en**

Elastične podne obloge – Određivanje utjecaja opterećenog kotačića (EN 1818:1998)

Resilient floor coverings – Determination of the effect of loaded heavy duty castors (EN 1818:1998)

- bez zamjene

**HRN EN 13297:2008 en**

Tekstilne podne obloge – Razredba iglanih podnih obloga s florom (EN 13297:2007)

Textile floor coverings – Classification of needle pile floor coverings (EN 13297:2007)

- bez zamjene

**HRN EN 13297:2008/Ispr.1:2008 en**

Tekstilne podne obloge – Razredba iglanih podnih obloga s florom (EN 13297:2007/AC:2008)

Textile floor coverings – Classification of needle pile floor coverings (EN 13297:2007/AC:2008)

- bez zamjene

**HRN EN 15114:2008 en**

Tekstilne podne obloge – Razredba tekstilnih podnih obloga bez flora (EN 15114:2006+A1:2008)

Textile floor coverings – Classification of textile floor coverings without pile (EN 15114:2006+A1:2008)

- bez zamjene

**HRS CEN/TS 15398:2008 en**

Elastične, tekstilne i laminatne podne obloge – Standardni simboli za podne obloge

(CEN/TS 15398:2008)

Resilient, textile and laminate floor coverings – Floor covering standard symbols

(CEN/TS 15398:2008)

- zamijenjena s: HRS CEN/TS 15398:2017

**HNZ/TO 502, *Plinski uređaji*****HRN EN 15502-2-1:2013 en**

Plinski kotlovi za centralno grijanje – Dio 2-1: Specifična norma za uređaje tipa C i uređaje tipa B2, B3 i B5 nazivne ulazne topiline koja ne prelazi 1000 kW (EN 15502-2-1:2012)

Gas-fired central heating boilers – Part 2-1: Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal heat input not exceeding 1000 kW (EN 15502-2-1:2012)

- zamijenjena s: HRN EN 15502-2-1:2017

**HNZ/TO 503, *Metalni materijali*****HRN EN ISO 8434-4:2008 en**

Metalni cijevni priključci za uporabu u tehnologiji fluida pod pritiskom i opću namjenu – 4. dio: 24° stožasti priključci s navarenim O-prstenom na izdancima (ISO 8434-4:1995; EN ISO 8434-4:2000)

Metallic tube connections for fluid power and general use – Part 4: 24° cone connectors with O-ring weld-on nipples (ISO 8434-4:1995; EN ISO 8434-4:2000)

- zamijenjena s: HRN EN ISO 8434-1:2008

**HRN EN 10002-4:2001 en**

Metalni materijali – Vlačno ispitivanje – 4. dio: Provjeravanje ekstenzometara koji se upotrebljavaju kod jednoosnog ispitivanja (EN 10002-4:1994)

Metallic materials – Tensile test – Part 4: Verification of extensometers used in uniaxial testing (EN 10002-4:1994)

- bez zamjene

**HRN EN 10113-1:2000 en**

Toplo valjani proizvodi od zavarljivih sitnozrnatih čelika – 1. dio: Opći uvjeti isporuke (EN 10113-1:1993)

Hot-rolled products in weldable fine grain structural steels – Part 1: General delivery conditions (EN 10113-1:1993)

- zamijenjena s: HRN EN 10025-1:2006, HRN EN 10025-3:2007, HRN EN 10025-4:2007

**HRN EN 10113-2:2000 en**

Toplo valjani proizvodi od zavarljivih sitnozrnatih čelika – 2. dio: Uvjeti isporuke za normalizacijski žarene valjane čelike (EN 10113-2:1993)

Hot-rolled products in weldable fine grain structural steels – Part 2: Delivery conditions for normalized rolled steels (EN 10113-2:1993)

- zamijenjena s: HRN EN 10025-1:2006, HRN EN 10025-3:2007

**HRN EN 10113-3:2000 en**

Toplo valjani proizvodi od zavarljivih sitnozrnatih čelika – 3. dio: Uvjeti isporuke za termomehanički valjane čelike (EN 10113-3:1993)

Hot-rolled products in weldable fine grain structural steels – Part 3: Delivery conditions for thermomechanically rolled steels (EN 10113-3:1993)

- zamijenjena s: HRN EN 10025-1:2006, HRN EN 10025-4:2007

**HRN EN 10126:2005 en**

Hladno valjani nelegirani čelični elektrolim i elektrotraka isporučeni kao poluproizvodi (EN 10126:1995)

Cold rolled electrical non-alloyed steel sheet and strip delivered in the semi-processed state (EN 10126:1995)

- zamijenjena s: HRN EN 10341:2008

**HRN EN 10155:2000 en**

Konstrukcijski čelici otporni na atmosfersku koroziju – Tehnički uvjeti isporuke (EN 10155:1993)

Structural steels with improved atmospheric corrosion resistance – Technical delivery conditions (EN 10155:1993)

- zamijenjena s: HRN EN 10025-1:2006, HRN EN 10025-5:2007

**HRN EN 10203:2005 en**

Hladno valjani elektrolitički pokositreni lim (EN 10203:1991)

Cold reduced electrolytic tinplate (EN 10203:1991)

- zamijenjena s: HRN EN 10202:2001

**HRN EN 10280:2008 en**

Magnetni materijali – Metode mjerjenja magnetnih svojstava elektrolimova i elektrotrakra pomoću uređaja za pojedinačno ispitivanje lima (EN 10280:2001+A1:2007)

Magnetic materials – Methods of measurement of the magnetic properties of electrical sheet and strip by means of a single sheet tester (EN 10280:2001+A1:2007)

- bez zamjene

**HRN EN 10282:2001 en**

Magnetični materijali – Metode mjerjenja za određivanje otpora površinske izolacije elektrolimova i elektrotrakra (EN 10282:2001)

Magnetic materials – Method of test for the determination of surface insulation resistance of electrical sheet and strip (EN 10282:2001)

- zamijenjena s: HRN EN 60404-11:2013

**HRI CEN/TR 10317:2014 en**

Europski potvrđeni referentni materijali (EURONORM-CRMs) za određivanje kemijskog sastava proizvoda iz željeznog lijeva i čelika pod pokroviteljstvom europskog odbora za normizaciju željeznog lijeva i čelika (ECIIS) (CEN/TR 10317:2013)

European certified reference materials (EURONORM-CRMs) for the determination of the chemical composition of iron and steel products prepared under the auspices of the European Committee for Iron and Steel Standardization (ECIIS) (CEN/TR 10317:2013)

- zamijenjena s: HRI CEN/TR 10317:2017

**HRN EN 10332:2008 en**

Magnetni materijali – Trajni magnetni (magnetični tvrdi) materijali – Metode mjerjenja magnetskih svojstava (EN 10332:2003)

Magnetic materials – Permanent magnet (magnetically hard) materials – Methods of measurement of magnetic properties (EN 10332:2003)

- bez zamjene

**HRN EN 12373-1:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 1. dio: Metoda za specifikaciju ukrasnih i zaštitnih prevlaka na aluminiju dobivenih anodnom oksidacijom (EN 12373-1:2001)  
Aluminium and aluminium alloys – Anodizing – Part 1: Method for specifying decorative and protective anodic oxidation coatings on aluminium (EN 12373-1:2001)  
- zamijenjena s: HRN EN ISO 7599:2010

**HRN EN 12373-4:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 4. dio: Procjena gubitka apsorpcijske sposobnosti prevlaka dobivenih anodnom oksidacijom nakon zguščivanja pomoću točkaste probe bojom s prethodnom obradom kiselinom (EN 12373-4:1998)  
Aluminium and aluminium alloys – Anodizing – Part 4: Estimation of loss of absorptive power of anodic oxidation coatings after sealing by dye spot test with prior acid treatment (EN 12373-4:1998)  
- zamijenjena s: HRN EN ISO 2143:2010

**HRN EN 12373-5:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 5. dio: Procjena kvalitete zguščenih prevlaka dobivenih anodnom oksidacijom mjerenjem prvidne vodljivosti (EN 12373-5:1998)  
Aluminium and aluminium alloys – Anodizing – Part 5: Assessment of quality of sealed anodic oxidation coatings by measurement of admittance (EN 12373-5:1998)  
- zamijenjena s: HRN EN ISO 2931:2010

**HRN EN 12373-6:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 6. dio: Procjena kvalitete zguščenih prevlaka dobivenih anodnom oksidacijom mjerenjem gubitka mase nakon uranjanja u otopinu fosforne/kromne kiseline bez prethodne obrade kiselinom (EN 12373-6:1998)  
Aluminium and aluminium alloys – Anodizing – Part 6: Assessment of quality of sealed anodic oxidation coatings by measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution without prior acid treatment (EN 12373-6:1998)  
- zamijenjena s: HRN EN ISO 3210:2010

**HRN EN 12373-7:2003 en**

Aluminij i aluminijeve legure – Anodizacija – 7. dio: Ocjena kvalitete zguščenih prevlaka dobivenih anodnom oksidacijom mjerenjem gubitka mase nakon uranjanja u otopinu fosforne/kromne kiseline s prethodnom obradom kiselinom (EN 12373-7:2002)  
Alumunium and aluminium alloys – Anodizing – Part 7: Assessment of quality of sealed anodic oxidation coatings by measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution with prior acid treatment (EN 12373-7:2002)  
- zamijenjena s: HRN EN ISO 3210:2010

**HRN EN 12373-8:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 8. dio: Poredbeno određivanje otpornosti prevlaka dobivenih anodnom oksidacijom na ultraljubičastu svjetlost i toplinu (EN 12373-8:1998)  
Aluminium and aluminium alloys – Anodizing – Part 8: Determination of the comparative fastness to ultra-violet light and heat of coloured anodic oxidation coatings (EN 12373-8:1998)  
- zamijenjena s: HRN EN ISO 6581:2010

**HRN EN 12373-14:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 14. dio: Vizualno određivanje jasnoće slike prevlaka dobivenih anodnom oksidacijom – Metoda s mjernom skalom (EN 12373-14:2000)  
Aluminium and aluminium alloys – Anodizing – Part 14: Visual determination of image clarity of anodic oxidation coatings – Chart scale method (EN 12373-14:2000)  
- zamijenjena s: HRN EN ISO 10215:2010

**HRN EN 12373-16:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 16. dio: Provjera neprekinitosti tankih prevlaka dobivenih anodnom oksidacijom – Ispitivanje bakrenim sulfatom (EN 12373-16:2001)  
Aluminium and aluminium alloys – Anodizing – Part 16: Check for continuity of thin anodic oxidation coatings – Copper sulfate test (EN 12373-16:2001)  
- zamijenjena s: HRN EN ISO 2085:2010

**HRN EN 12373-17:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 17. dio: Određivanje električnoga probojnog napona (EN 12373-17:2001)

Alumnum and aluminium alloys – Anodizing – Part 17: Determination of electric breakdown potential (EN 12373-17:2001)

- zamijenjena s: HRN EN ISO 2376:2010

**HRN EN 12373-18:2002 en**

Aluminij i aluminijeve legure – Anodizacija – 18. dio: Vrijednosni sustav za ocjenu jamičaste korozije – Metoda usporednih karata (EN 12373-18:2001)

Aluminium and aluminium alloys – Anodizing – Part 18: Rating system for the evaluation of pitting corrosion – Chart method (EN 12373-18:2001)

- zamijenjena s: HRN EN ISO 8993:2010

**HRN CR 12776:2008 en**

Bakar i legure bakra – Propisi i postupci za dodjeljivanje broja materijala i registraciju materijala (CR 12776:1997)

Copper and copper alloys – Provisions and procedures for the allocation of material numbers and registration of materials (CR 12776:1997)

- bez zamjene

**HRN EN 13347:2003 en**

Bakar i bakrene legure – Šipke i žice za zavarivanje i lemljenje zavarivanjem (EN 13347:2002)

Copper and copper alloys – Rod and wire for welding and braze welding (EN 13347:2002)

- bez zamjene

**HNZ/TO 504, *Korozija i zaštita metala i legura*****HRN EN ISO 4538:2007 en**

Metalne prevlake – Korozionsko ispitivanje s tioacetamidom (TAA ispitivanje) (ISO 4538:1978; EN ISO 4538:1995)

Metallic coatings – Thioacetamide corrosion test (TAA test) (ISO 4538:1978; EN ISO 4538:1995)

- bez zamjene

**HRN EN ISO 12696:2012 en**

Katodna zaštita čelika u betonu (ISO 12696:2012; EN ISO 12696:2012)

Cathodic protection of steel in concrete (ISO 12696:2012; EN ISO 12696:2012)

- zamijenjena s: HRN EN ISO 12696:2017

**HNZ/TO 506, *Materijali, oprema i konstrukcije za naftnu industriju, prirodni plin i geotermalnu vodu*****HRN EN ISO 17776:2003 en**

Industrija nafte i prirodnog plina – Odobalna proizvodna postrojenja – Upute za identifikacije opasnosti i procjene rizika, sredstva i metode (ISO 17776:2000; EN ISO 17776:2002)

Petroleum and natural gas industries – Offshore production installations – Guidelines on tools and techniques for hazard identification and risk assessment (ISO 17776:2000; EN ISO 17776:2002)

- zamijenjena s: HRN EN ISO 17776:2017

**HNZ/TO 513, *Mjerne jedinice i mjerila*****HRN ISO 6420:2009 en**

Mjerenje protoka u otvorenim kanalima – Oprema za određivanje položaja hidrometrijskih plovila (ISO 6420:1984)

Liquid flow measurement in open channels – Position fixing equipment for hydrometric boats (ISO 6420:1984)

- zamijenjena s: HRN ISO 6420:2017

**HRN ISO 15901-1:2008 en**

Raspodjela veličine pora i poroznost krutih materijala dobivena živinim porozimetrom i plinskom adsorpcijom – 1. dio: Živin porozimetar (ISO 15901-1:2005+Cor 1:2007)  
Pore size distribution and porosity of solid materials by mercury porosimetry and gas adsorption – Part 1: Mercury porosimetry (ISO 15901-1:2005+Cor 1:2007)  
- zamijenjena s: HRN ISO 15901-1:2017

**HNZ/TO 519, Adhezivi****HRN EN 13851:2004 en**

Metode ispitivanja hidraulički otvrđujućih zaglađenih i/ili izravnavačih podnih masa – Određivanje čvrstoće na savijanje i tlak (EN 13851:2003)  
Methods of test for hydraulic setting floor smoothing and/or levelling compounds – Determination of flexural and compressive strength (EN 13851:2003)  
- bez zamjene

**HNZ/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova****HRN EN 490:2012 en**

Betonski crijeplji i pomoći dijelovi za pokrivanje krovova i oblaganje zidova – Specifikacije proizvoda (EN 490:2011)  
Concrete roofing tiles and fittings for roof covering and wall cladding – Product specifications (EN 490:2011)  
- zamijenjena s: HRN EN 490:2017

**HNZ/TO 526, Bitumenska veziva****HRN EN 13357:2004 en**

Bitumen i bitumenska veziva – Određivanje vremena istjecanja razrijeđenih bitumena i omekšanih bitumena (EN 13357:2002)  
Bitumen and bituminous binders – Determination of the efflux time of petroleum cut-back and fluxed bitumens (EN 13357:2002)  
- zamijenjena s: HRN EN 12846-2:2011

**HRN EN 13703:2004 en**

Bitumen i bitumenska veziva – Određivanje energije deformacije (EN 13703:2003)  
Bitumen and bituminous binders – Determination of deformation energy (EN 13703:2003)  
- zamijenjena s: HRN EN 13587:2016

**HRN EN 14895:2007 en**

Bitumen i bitumenska veziva – Stabiliziranje bitumenskog veziva iz bitumenskih emulzija ili iz razrijeđenih i omekšanih bitumenskih veziva (EN 14895:2006)  
Bitumen and bituminous binders – Stabilisation of binder from bituminous emulsions or from cut-back and fluxed bituminous binders (EN 14895:2006)  
- zamijenjena s: HRN EN 13074-2:2011

**HNZ/TO 528, Oprema za željeznice****HRN EN 15551:2011 en**

Željeznički sustav – Željeznička vozila – Odbojnici (EN 15551:2009+A1:2010)  
Railway applications – Railway rolling stock – Buffers (EN 15551:2009+A1:2010)  
- zamijenjena s: HRN EN 15551:2017

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

### **HRN EN ISO 183:2004 en**

Plastika – Kvalitativna prosudba iscvjetavanja bojila (ISO 183:1976; EN ISO 183:1999)

Plastics – Qualitative evaluation of the bleeding of colorants (ISO 183:1976; EN ISO 183:1999)

- bez zamjene

### **HRN EN 1361:2008 en**

Gumena crijeva i crijevni uređaji za rukovanje avionskim gorivom – Specifikacija (EN 1361:2004)

Rubber hoses and hose assemblies for aviation fuel handling – Specification (EN 1361:2004)

- zamijenjena s: HRN EN ISO 1825:2011

### **HRN EN ISO 1746:2008 en**

Gumena i plastična crijeva i cijevi – Ispitivanje savijanjem (ISO 1746:1998+Cor 1:1999; EN ISO 1746:2000)

Rubber or plastics hoses and tubing – Bending tests (ISO 1746:1998+Cor 1:1999; EN ISO 1746:2000)

- zamijenjena s: HRN EN ISO 10619-1:2012

### **HRN EN ISO 4641:2011 en**

Gumena crijeva i crijevni sklopovi za usisavanje i ispuštanje vode – Specifikacija (ISO 4641:2010; EN ISO 4641:2011)

Rubber hoses and hose assemblies for water suction and discharge – Specification (ISO 4641:2010; EN ISO 4641:2011)

- zamijenjena s: HRN EN ISO 4641:2017

### **HRN EN ISO 4672:2008 en**

Gumena i plastična crijeva – Testovi prilagodljivosti pri temperaturama nižim od okoline (ISO 4672:1997; EN ISO 4672:1999)

Rubber and plastics hoses – Sub-ambient temperature flexibility tests (ISO 4672:1997; EN ISO 4672:1999)

- zamijenjena s: HRN EN ISO 10619-2:2012

### **HRN EN ISO 5659-1:2008 en**

Plastika – Stvaranje dima – 1. dio: Upute za ispitivanje optičke gustoće (ISO 5659-1:1996; EN ISO 5659-1:1999)

Plastics – Smoke generation – Part 1: Guidance on optical-density testing (ISO 5659-1:1996; EN ISO 5659-1:1999)

- zamijenjena s: HRN EN ISO 5659-2:2013

### **HRN EN ISO 6945:2008 en**

Gumena crijeva – Određivanje abrazijske trošivosti vanjskog sloja (ISO 6945:1991+Amd 1:1998; EN ISO 6945:1996+A1:2000)

Rubber hoses – Determination of abrasion resistance of the outer cover (ISO 6945:1991+Amd 1:1998; EN ISO 6945:1996+A1:2000)

- bez zamjene

### **HRN EN ISO 7751:2008/A1:2011 en**

Gumena i plastična crijeva i crijevni sklopovi – Omjeri ispitnih tlakova i tlakova do prsnuća za određivanje maksimalnog radnog tlaka – Amandman 1 – Zamjena izraza „projektirani radni tlak“ u „maksimalni radni tlak“ u tekstu (ISO 7751:1991/Amd 1:2011; EN ISO 7751:1997/A1:2011)

Rubber and plastics hoses and hose assemblies – Ratios of proof and burst pressure to maximum working pressure – Amendment 1 – Replacement of "design working pressure" by "maximum working pressure" throughout text (ISO 7751:1991/Amd 1:2011; EN ISO 7751:1997/A1:2011)

- zamijenjena s: HRN EN ISO 7751:2016

**HRN EN ISO 8580:2008 en**

Plastična i gumena crijeva – Određivanje postojanosti na ultraljubičasto zračenje pri statičnim uvjetima (ISO 8580:1987; EN ISO 8580:1995)  
Rubber and plastics hoses – Determination of ultra-violet resistance under static conditions (ISO 8580:1987; EN ISO 8580:1995)  
- zamijenjena s: HRN EN ISO 30013:2011

**HRN EN ISO 15103-1:2008 en**

Plastika – Poli(fenilen-eterski) (PPE) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označivanja i osnove za specifikacije (ISO 15103-1:2000; EN ISO 15103-1:2004)  
Plastics – Poly(phenylene ether) (PPE) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 15103-1:2000; EN ISO 15103-1:2004)  
- zamijenjena s: HRN EN ISO 28941-1:2009

**HRN EN ISO 15526-1:2008 en**

Plastika – Poliketonski (PK) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označivanja i osnove za specifikacije (ISO 15526-1:2000; EN ISO 15526-1:2004)  
Plastics – Polyketone (PK) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 15526-1:2000; EN ISO 15526-1:2004)  
- bez zamjene

**HRN EN ISO 15526-2:2008 en**

Plastika – Poliketonski (PK) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 15526-2:2000; EN ISO 15526-2:2004)  
Plastics – Polyketone (PK) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 15526-2:2000; EN ISO 15526-2:2004)  
- bez zamjene

**HNZ/TO 533, Kolničke konstrukcije****HRN EN 12697-9:2004 en**

Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 9. dio: Određivanje referencijske gustoće (EN 12697-9:2002)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 9: Determination of the reference density (EN 12697-9:2002)  
- bez zamjene

**HNZ/TO 534, Spremnici za teret****HRN EN 14512:2008 en**

Spremnici za prijevoz opasnih tvari – Oprema spremnika za prijevoz tekućih kemikalija – Zglobni poklopac ulaznog otvora i prstenasti utori s okretnim svornjakom (EN 14512:2006)  
Tanks for the transport of dangerous goods – Tank equipment for the transport of liquid chemicals – Hinged manhole covers and bolts neckring with pivoting bolts (EN 14512:2006)  
- bez zamjene

**HNZ/TO 536, Vrata, prozori i staklo u graditeljstvu****HRN EN 357:2006 en**

Staklo u graditeljstvu – Ostakljenje otporno na požar s prozirnim ili poluprozirnim stakлом – Razredba otpornosti na požar (EN 357:2004)  
Glass in building – Fire resistant glazed elements with transparent or translucent glass products – Classification of fire resistance (EN 357:2004)  
- bez zamjene

**HRN EN 12207:2001 en**

Prozori i vrata – Propusnost zraka – Razredba (EN 12207:1999)  
Windows and doors – Air permeability – Classification (EN 12207:1999)  
- zamijenjena s: HRN EN 12207:2017

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

### **HRN EN 15377-1:2008 en**

Sustavi grijanja u zgradama – Projektiranje ugradbenih sustava površinskog grijanja i hlađenja vodom  
– 1. dio: Određivanje učinka grijanja i hlađenja (EN 15377-1:2008)

Heating systems in buildings – Design of embedded water based surface heating and cooling systems

– Part 1: Determination of the design heating and cooling capacity (EN 15377-1:2008)

- zamijenjena s: HRN EN ISO 11855-1:2015, HRN EN ISO 11855-2:2015

### **HRN EN 15377-3:2008 en**

Sustavi grijanja u zgradama – Projektiranje ugradbenih sustava površinskog grijanja i hlađenja vodom  
– 3. dio: Optimiranje uporabe obnovljivih izvora energije (EN 15377-3:2007)

Heating systems in buildings – Design of embedded water based surface heating and cooling systems

– Part 3: Optimizing for use of renewable energy sources (EN 15377-3:2007)

- zamijenjena s: HRN EN ISO 11855-4:2015

## **HN/TO 543, Poštanske usluge**

### **HRN CEN/TS 14014:2007 en**

Poštanske usluge – Hibridna pošta – Definiranje automatskog rukovanja pismima pomoću softverskog XML jezika (CEN/TS 14014:2006)

Postal services – Hybrid mail – XML definition of encapsulation of letters for automated postal handling (CEN/TS 14014:2006)

- zamijenjena s: HRS CEN/TS 14014:2017

### **HRN EN 14137:2004 en**

Poštanske usluge – Kvaliteta usluge – Mjerenje broja izgubljenih knjiženih i drugih pošiljka upotrebotom sustava praćenja i traženja pošiljaka (EN 14137:2003)

Postal services – Quality of service – Measurement of loss of registered mail and other types of postal service using a track and trace system (EN 14137:2003)

- bez zamjene

### **HRN EN 14534:2007 en**

Poštanske usluge – Kvaliteta usluga – Mjerenje vremena prijenosa pošiljaka u velikim količinama od prijama do uručenja (EN 14534:2003+A1:2007)

Postal services – Quality of service – Measurement of the transit time of end-to-end services for bulk mail (EN 14534:2003+A1:2007)

- zamijenjena s: HRN EN 14534:2017

### **HRN CEN/TR 14709:2007 en**

Poštanske usluge – Kvaliteta usluge – Upute za primjenu EN 13850 (CEN/TR 14709:2006)

Postal services – Quality of service – Guide for the implementation of EN 13850 (CEN/TR 14709:2006)

- bez zamjene

### **HRI CEN/TR 15369:2008 en**

Poštanske usluge – Kvaliteta usluga – Uputa za primjenu norme EN 14534 Mjerenje vremena prijenosa pošiljaka u velikim količinama od prijama do uručenja (CEN/TR 15369:2006)

Postal services – Quality of service – Guide for the implementation of EN 14534 Measurement of the transit time of end-to-end services for bulk mail (CEN/TR 15369:2006)

- zamijenjena s: HRN EN 14534:2017

### **HRS CEN/TS 15525:2008 en**

Poštanske usluge – Standardno sučelje – Sučelje između upravljačkog stroja i pisača bar koda (CEN/TS 15525:2006)

Postal Services – Standard Interfaces – Interface between Machine Control and Bar Code Printers (CEN/TS 15525:2006)

- bez zamjene

## **HZN/TO 544, Strojni elementi**

### **HRN EN ISO 4036:2013 en**

Šesterokutne niske matice bez skošenja (tip 0) – Proizvod kvalitete izrade B (ISO 4036:2012; EN ISO 4036:2012)  
Hexagon thin nuts unchamfered (style 0) – Product grade B (ISO 4036:2012; EN ISO 4036:2012)  
- bez zamjene

### **HRN EN ISO 10485:2008 en**

Ispitivanje opteretivosti matica pomoću stožastog podloška (ISO 10485:1991; EN ISO 10485:2004)  
Cone proof load test on nuts (ISO 10485:1991; EN ISO 10485:2004)  
- bez zamjene

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

### **HRN EN 13433:2008 en**

Uređaji za sprečavanje onečišćenja vode za piće zbog povratnoga toka – Izravno upravljan mehanički prekidač – Skupina G, tip A (EN 13433:2006)  
Devices to prevent pollution by backflow of potable water – Mechanical disconnecter, direct actuated – Family G, type A (EN 13433:2006)  
- bez zamjene

### **HRN EN 13434:2008 en**

Uređaji za sprečavanje onečišćenja vode za piće zbog povratnoga toka – Hidraulički upravljan mehanički prekidač – Skupina G, tip B (EN 13434:2006)  
Devices to prevent pollution by backflow of potable water – Mechanical disconnecter, hydraulic actuated – Family G, type B (EN 13434:2006)  
- bez zamjene

## **HZN/TO 551, Gradnja**

### **HRN EN 29048:2008 en**

Gradnja zgrada – Proizvodi za spajanje – Određivanje svojstva istiskivanja brtivila uporabom normiranog uređaja (ISO 9048:1987; EN 29048:1990)  
Building construction – Jointing products – Determination of extrudability of sealants using standardized apparatus (ISO 9048:1987; EN 29048:1990)  
- zamijenjena s: HRN EN ISO 8394-2:2011

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

### **HRN EN 32:2003 en**

Zidni umivaonici – Priključne dimenzije (EN 32:1998)  
Wall-hung wash basins – Connecting dimensions (EN 32:1998)  
- bez zamjene

### **HRN EN 33/AC:2007 en**

Stojeće WC školjke s montiranim vodokotlićem (WC monoblok) – Priključne dimenzije (EN 33:2003/AC:2005)  
Pedestal W.C. pans with close-coupled flushing cistern – Connecting dimensions (EN 33:2003/AC:2005)  
- zamijenjena s: HRN EN 33:2012

### **HRN EN 34:2003 en**

Viseća WC školjka s montiranim vodokotlićem (WC viseći monoblok) – Priključne dimenzije (EN 34:1992)  
Wall-hang WC pan with close coupled flushing cistern – Connecting dimensions (EN 34:1992)  
- zamijenjena s: HRN EN 33:2012

**HRN EN 36:2003 en**

Viseći bidei s dotokom vode iznad ruba – Priklučne dimenzije (EN 36:1998)

Wall-hang bidets with over-rim supply – Connecting dimensions (EN 36:1998)

- zamijenjena s: HRN EN 35:2014

**HRN EN 37:2003 hr/en**

Stojeće WC školjke s neovisnim dotokom vode – Priklučne dimenzije (EN 37:1998)

Pedestal WC pans with independent water supply – Connecting dimensions (EN 37:1998)

- zamijenjena s: HRN EN 33:2012

**HRN EN 38:2003 en**

Viseća WC školjka s neovisnim dotokom vode – Priklučne dimenzije (EN 38:1992)

Wall-hang WC pan with independent water supply – Connecting dimensions (EN 38:1992)

- zamijenjena s: HRN EN 33:2012

**HRN EN 101:2001 en**

Keramičke pločice – Određivanje površinske tvrdoće prema Mohs-u (EN 101:1991)

Ceramic tiles – Determination of scratch hardness of surface according to Mohs (EN 101:1991)

- bez zamjene

**HRN EN 111:2003 en**

Zidni umivaonici za pranje ruku – Priklučne dimenzije (EN 111:2003)

Wall-hung hand rinse basins – Connecting dimensions (EN 111:2003)

- bez zamjene

**HRN EN 121:2001 en**

Vučene keramičke pločice s koeficijentom vodoupojnosti  $E \leq 3\%$  – Skupina AI (EN 121:1991)

Extruded ceramic tiles with low water absorption  $E \leq 3\%$  – Group AI (EN 121:1991)

- bez zamjene

**HRN EN 159:2001 en**

Prešane keramičke pločice s koeficijentom vodoupojnosti  $E > 10\%$  – Skupina BIII (EN 159:1991)

Dust-pressed ceramic tiles with water absorption  $E > 10\%$  – Group BIII (EN 159:1991)

- bez zamjene

**HZN/TO 555, Medicinski proizvodi****HRN EN ISO 10993-6:2010 en**

Biološka procjena medicinskih proizvoda – 6. dio: Ispitivanja lokalnog djelovanja nakon implantacije (ISO 10993-6:2007; EN ISO 10993-6:2009)

Biological evaluation of medical devices – Part 6: Tests for local effects after implantation

(ISO 10993-6:2007; EN ISO 10993-6:2009)

- zamijenjena s: HRN EN ISO 10993-6:2017

**HRN EN 13824:2007 en**

Sterilizacija medicinskih proizvoda – Sterilna priprema tekućih medicinskih proizvoda – Zahtjevi (EN 13824:2004)

Sterilization of medical devices – Aseptic processing of liquid medical devices – Requirements (EN 13824:2004)

- zamijenjena s: HRN EN ISO 13408-2:2011, HRN EN ISO 13408-3:2011,

HRN EN ISO 13408-4:2011, HRN EN ISO 13408-5:2011, HRN EN ISO 13408-6:2011

**HRI CR 14230:2008 en**

Svjetska nomenklatura medicinskih proizvoda u svrhu obvezne razmjene podataka (istovjetan s ISO/TS 20225:2001) (CR 14230:2001)

Global medical device nomenclature for the purpose of regulatory data exchange (identical to ISO/TS 20225:2001) (CR 14230:2001)

- bez zamjene

**HRI CEN ISO/TR 14969:2008 en**

Medicinski uređaji – Sustavi upravljanja kvalitetom – Upute za primjenu norme ISO 13485:2003  
(ISO/TR 14969:2004; CEN ISO/TR 14969:2005)

Medical devices – Quality management systems – Guidance on the application of ISO 13485:2003  
(ISO/TR 14969:2004; CEN ISO/TR 14969:2005)

- zamijenjena s: HRN EN ISO 13485:2016

**HRN EN 15424:2008 en**

Sterilizacija medicinskih proizvoda – Niskotemperaturni parni i formaldehidski – Zahtjevi za provedbu , vrednovanje i rutinsku kontrolu postupka sterilizacije medicinskih proizvoda (EN 15424:2007)

Sterilization of medical devices – Low temperature steam and formaldehyde – Requirements for development, validation and routine control of a sterilization process for medical devices  
(EN 15424:2007)

- zamijenjena s: HRN EN ISO 25424:2011

**HRN EN 15546-1:2008 en**

Spojnici malih promjera za tekućine i plinove u zdravstvenoj skrbi – 1. dio: Opći zahtjevi  
(EN 15546-1:2008)

Small bore connectors for liquids and gases in healthcare applications – Part 1: General requirements  
(EN 15546-1:2008)

- zamijenjena s: HRN EN ISO 80369-1:2011

**HNZ/TO 556, Osobna zaštitna oprema****HRN EN 967:2001 en**

Štitnici za glavu za hokejaše na ledu (EN 967:1996)

Head protectors for ice hockey players (EN 967:1996)

- zamijenjena s: HRN EN ISO 10256:2005

**HRN EN 1496:2008 en**

Osobna zaštitna oprema protiv pada s visine – Spasilačke naprave za dizanje (EN 1496:2006)

Personal fall protection equipment – Rescue lifting devices (EN 1496:2006)

- zamijenjena s: HRN EN 1496:2017

**HRN EN ISO 10256:2005 en**

Zaštita glave i lica za uporabu u hokeju na ledu (ISO 10256:2003; EN ISO 10256:2003)

Head and face protection for use in ice hockey (ISO 10256:2003; EN ISO 10256:2003)

- zamijenjena s: HRN EN ISO 10256-1:2017

**HRN EN 14572:2008 en**

Kacige visokih svojstava za jahače (EN 14572:2005)

High performance helmets for equestrian activities (EN 14572:2005)

- bez zamjene

**HNZ/TO 557, Zaštitna odjeća****HRN EN 463:2001 en**

Zaštitna odjeća – Zaštita od tekućih kemikalija – Ispitna metoda: Određivanje otpornosti na propuštanje pomoću mlaza tekućine (Ispitivanje mlazom) (EN 463:1994)

Protective clothing for use against liquid chemicals – Test method: Determination of resistance to penetration by a jet of liquid (jet test) (EN 463:1994)

- zamijenjena s: HRN EN ISO 17491-3:2010

**HRN EN 468:2001 en**

Zaštitna odjeća – Zaštita od tekućih kemikalija – Metoda ispitivanja: Određivanje otpornosti na propuštanje prskanjem (Ispitivanje prskanjem) (EN 468:1994)

Protective clothing for use against liquid chemicals – Test method: Determination of resistance to penetration by spray (spray test) (EN 468:1994)

- zamijenjena s: HRN EN ISO 17491-4:2010

**HRN EN 1095:2001 en**

Sigurnosni pojas i sigurnosno povezno uže za uporabu na rekreacijskome plovilu – Sigurnosni zahtjevi i ispitni postupci (EN 1095:1998)

Deck safety harness and safety line for use on recreational craft – Safety requirements and test methods (EN 1095:1998)

- zamijenjena s: HRN EN ISO 12401:2010

**HRN EN ISO 6529:2001 en**

Zaštitna odjeća – Zaštita od kemikalija – Određivanje otpornosti materijala zaštitne odjeće na upijanje tekućina i plinova (ISO 6529:2001; EN ISO 6529:2001)

Protective clothing – Protection against chemicals – Determination of resistance of protective clothing materials to permeation by liquids and gas (ISO 6529:2001; EN ISO 6529:2001)

- bez zamjene

**HRN EN ISO 12402-1:2005 en**

Osobne plutajuće naprave – 1. dio: Prsluci za spašavanje za prekoceanske brodove – Sigurnosni zahtjevi (ISO 12402-1: 2005; EN ISO 12402-1:2005)

Personal flotation devices – Part 1: Lifejackets for seagoing ships – Safety requirements (ISO 12402-1:2005; EN ISO 12402-1:2005)

- bez zamjene

**HRN EN 14225-4:2005 en**

Ronilačka odijela – 4. dio: Jednoatmosferska odijela (ADS) – Zahtjevi prema ljudskim potrebama i ispitne metode (EN 14225-4:2005)

Diving suits – Part 4: One atmosphere suits (ADS) – Human factors requirements and test methods (EN 14225-4:2005)

- bez zamjene

**HZN/TO 558, Zaštita dišnih putova****HRN EN 133:2002 hr**

Zaštitne naprave za disanje – Razredba (EN 133:2001)

Respiratory protective devices – Classification (EN 133:2001)

- bez zamjene

**HRN EN 14593-2:2005 en**

Zaštitne naprave za disanje – Cijevni uređaji za disanje sa stlačenim zrakom s plućnim automatom – 2. dio: Uređaji s polumaskom na nadtlak – Zahtjevi, ispitivanje, označivanje (EN 14593-2:2005)

Respiratory protective devices – Compressed air line breathing with demand valve – Part 2: Apparatus with a half mask at positive pressure – Requirements, testing, marking (EN 14593-2:2005)

- bez zamjene

**HZN/TO 560, Tekstilni proizvodi****HRN EN ISO 1421:2003 en**

Gumirani ili plastificirani plošni tekstil – Određivanje vlačne čvrstoće i produljenja kod prekida (ISO 1421:1998; EN ISO 1421:1998)

Rubber- or plastic-coated fabrics – Determination of tensile strength and elongation at break (ISO 1421:1998; EN ISO 1421:1998)

- zamijenjena s: HRN EN ISO 1421:2017

**HRN EN ISO 12947-2:2008 en**

Tekstilije – Određivanje otpornosti na habanje plošnog tekstila metodom po Martindaleu – 2. dio: Određivanje prekida uzorka (ISO 12947-2:1998+Cor 1:2002; EN ISO 12947-2:1998+AC:2006)

Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 2: Determination of specimen breakdown (ISO 12947-2:1998+Cor 1:2002; EN ISO 12947-2:1998+AC:2006)

- zamijenjena s: HRN EN ISO 12947-2:2017

**HRN EN ISO 12952-3:2003 en**

Tekstil – Ponašanje posteljnog rublja pri gorenju – 3. dio: Opće metode ispitivanja zapaljivosti uzrokovane malim otvorenim plamenom (ISO 12952-3:1998; EN ISO 12952-3:1998)  
Textiles – Burning behavior of bedding items – Part 3: General test methods for the ignitability by a small open flame (ISO 12952-3:1998; EN ISO 12952-3:1998)  
- zamijenjena s: HRN EN ISO 12952-2:2010

**HRN EN ISO 12952-4:2003 en**

Tekstil – Ponašanje posteljnog rublja pri gorenju – 4. dio: Specifične metode ispitivanja zapaljivosti uzrokovane malim otvorenim plamenom (ISO 12952-4:1998; EN ISO 12952-4:1998)  
Textiles – Burning behavior of bedding items – Part 4: Specific test methods for the ignitability by a small open flame (ISO 12952-4:1998; EN ISO 12952-4:1998)  
- zamijenjena s: HRN EN ISO 12952-2:2010

**HRN EN 14684:2008 en**

Poliesterska vlaknasta užad – Konstrukcija dvostrukе pletenice (EN 14684:2004)  
Polyester fibre ropes – Double braid construction (EN 14684:2004)  
- zamijenjena s: HRN EN ISO 10547:2010

**HRN EN 14685:2008 en**

Poliamidna vlaknasta užad – Konstrukcija dvostrukе pletenice (EN 14685:2004)  
Polyamide fibre ropes – Double braid construction (EN 14685:2004)  
- zamijenjena s: HRN EN ISO 10554:2010

**HRN EN 14686:2008 en**

Vlaknasta užad od mješavine poliesterskih/poliolefinskih vlakana (EN 14686:2004)  
Fibre ropes of polyester/polyolefin dual fibres (EN 14686:2004)  
- zamijenjena s: HRN EN ISO 10556:2010

**HRN EN 14687:2008 en**

Vlaknasta užad od mješavine poliolefinskih vlakana (EN 14687:2004)  
Mixed polyolefin fibre ropes (EN 14687:2004)  
- zamijenjena s: HRN EN ISO 10572:2010

**HRI CEN/TR 16446:2013 en**

Tekstil – Sigurnost dječje odjeće – Upute za primjenu EN 14682:2007 Gajtani i vezice na dječjoj odjeći – Specifikacije (CEN/TR 16446:2012)  
Textiles – Safety of children's clothing – Guidance on the use of EN 14682:2007 Cords and drawstrings on children's clothing – Specifications (CEN/TR 16446:2012)  
- bez zamjene

**HN/T 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce****HRN EN 764-3:2008 en**

Tlačna oprema – 3. dio: Definicije uključenih strana (EN 764-3:2002)  
Pressure equipment – Part 3: Definition of parties involved (EN 764-3:2002)  
- bez zamjene

**HRN EN 12754:2002 en**

Prenosive plinske boce – Boce za otopljeni acetilen – Pregled kod punjenja (EN 12754:2001)  
Transportable gas cylinders – Cylinders for dissolved acetylene – Inspection at time of filling (EN 12754:2001)  
- zamijenjena s: HRN EN ISO 11372:2012

**HRN EN 12820:2003 en**

Pregled i ponovno potvrđivanje podzemnih spremnika za UNP vodenog kapaciteta većeg od 13 m<sup>3</sup> (EN 12820:2002)  
Inspection and requalification of LPG tanks greater than 13 m<sup>3</sup> underground (EN 12820:2002)  
- zamijenjena s: HRN EN 12819:2010

## **HN/T 562, Alatni strojevi i alati**

### **HRN EN 1114-2:2008 en**

Strojevi za gumu i plastiku – Ekstruder i linije za ekstrudiranje – 2. dio: Sigurnosni zahtjevi za čeone matrične granulatore (EN 1114-2:1998+A1:2008)

Plastics and rubber machines – Extruders and extrusion lines – Part 2: Safety requirements for die face pelletisers (EN 1114-2:1998+A1:2008)

- bez zamjene

### **HRN EN 1218-3:2010 en**

Sigurnost strojeva za obradu drva – Strojevi za izradu rukavaca – 3. dio: Ručno pogonjeni strojevi za izradu rukavaca s pomicnim stolom za rezanje konstrukcijskog drva (EN 1218-3:2001+A1:2009)

Safety of woodworking machines – Tenoning machines – Part 3: Hand fed tenoning machines with sliding table for cutting structural timbers (EN 1218-3:2001+A1:2009)

- bez zamjene

### **HRN EN 1612-2:2008 en**

Strojevi za gumu i plastiku – Strojevi za oblikovanje kalupljenjem – 2. dio: Sigurnosni zahtjevi postrojenja za kalupljenje (EN 1612-2:2000+A1:2008)

Plastics and rubber machines – Reaction moulding machines – Part 2: Safety requirements for reaction moulding plant (EN 1612-2:2000+A1:2008)

- bez zamjene

### **HRN EN 1807:2010 en**

Sigurnost strojeva za obradu drva – Tračne pile (EN 1807:1999+A1:2009)

Safety of woodworking machines – Band sawing machines (EN 1807:1999+A1:2009)

- zamijenjena s: HRN EN 1807-1:2013, HRN EN 1807-2:2013

### **HRN EN 1870-1:2009 en**

Sigurnost strojeva za obradu drveta – Kružne pile – 1. dio: Stolne kružne pile (sa kliznim stolom i bez njega), formatne pile i kružne pile za građevinarstvo (EN 1870-1:2007+A1:2009)

Safety of woodworking machines – Circular sawing machines – Part 1: Circular saw benches (with and without sliding table), dimension saws and building site saws (EN 1870-1:2007+A1:2009)

- zamijenjena s: HRN EN 1870-18:2013, HRN EN 1870-19:2013

### **HRN EN 12012-2:2008 en**

Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 2. dio: Sigurnosni zahtjevi za čeone granulatore (EN 12012-2:2001+A2:2008)

Plastics and rubber machines – Size reduction machines – Part 2: Safety requirements for strand pelletisers (EN 12012-2:2001+A2:2008)

- bez zamjene

### **HRN EN 12415:2003 en**

Sigurnost alatnih strojeva – Male numerički upravljenje tokarilice i tokarski obradni centri (EN 12415:2000)

Safety of machine tools – Small numerically controlled turning machines and turning centres (EN 12415:2000)

- bez zamjene

### **HRN EN 12415:2003/A1:2008 en**

Sigurnost alatnih strojeva – Male, numerički upravljane tokarilice i tokarski centri (EN 12415:2000/A1:2002)

Safety of machine tools – Small numerically controlled turning machines and turning centres (EN 12415:2000/A1:2002)

- bez zamjene

**HRN EN 12478:2002 en**

Sigurnost alatnih strojeva – Velike numerički upravljane tokarilice i tokarski obradni centri  
(EN 12478:2000+AC:2001)

Safety of machine tools – Large numerically machines and turning centers (EN 12478:2000+AC:2001)  
- bez zamjene

**HRN EN 12840:2002 en**

Sigurnost alatnih strojeva – Ručno upravljane tokarilice s ili bez automatskog upravljanja  
(EN 12840:2001)

Safety of machine tools – Manually controlled turning machines with or without automatic control  
(EN 12840:2001)  
- bez zamjene

**HRN EN 13743:2010 en**

Sigurnosni zahtjevi za presvučene abrazive (EN 13743:2009)

Safety requirements for coated abrasive products (EN 13743:2009)

- zamijenjena s: HRN EN 13743:2017

**HZN/TO 563, *Sigurnost strojeva*****HRN CR 954-100:2006 en**

Sigurnost strojeva – Dijelovi kontrolnog sustava u vezi sa sigurnošću – 100. dio: Uputa za uporabu i primjenu EN 954-1:1996 (CR 954-100:1999)

Safety of machinery – Safety-related parts of control system – Part 100: Guide on the use and application of EN 954-1:1996 (CR 954-100:1999)

- bez zamjene

**HRN EN ISO 11111-1:2016 en**

Tekstilni strojevi – Sigurnosni zahtjevi – 1. dio: Opći zahtjevi (ISO 11111-1:2016;  
EN ISO 11111-1:2016)

Textile machinery – Safety requirements – Part 1: Common requirements (ISO 11111-1:2016;  
EN ISO 11111-1:2016)

- zamijenjena s: HRN EN ISO 11111-1:2017

**HRN EN 12851:2010 en**

Strojevi za preradu hrane – Priključci za dobavljanje hrane na strojevima sa pomoćnim pogonom –  
Sigurnosni i higijenski zahtjevi (EN 12851:2005+A1:2010)

Food processing machinery – Catering attachments for machines having an auxiliary drive hub –  
Safety and hygiene requirements (EN 12851:2005+A1:2010)

- bez zamjene

**HRN EN ISO 14122-1:2008/A1:2010 en**

Sigurnost strojeva – Trajni način prilaza strojevima – 1. dio: Izbor trajnih načina prilaza između dvije razine (ISO 14122-1:2001/Amd 1:2010; EN ISO 14122-1:2001/A1:2010)

Safety of machinery – Permanent means of access to machinery – Part 1: Choice of fixed means of access between two levels (ISO 14122-1:2001/Amd 1:2010; EN ISO 14122-1:2001/A1:2010)

- zamijenjena s: HRN EN ISO 14122-1:2016

**HRN EN ISO 14122-2:2008/A1:2010 en**

Sigurnost strojeva – Trajni način prilaza strojevima – 2. dio: Radne platforme i prolazi  
(ISO 14122-2:2001/Amd 1:2010; EN ISO 14122-2:2001/A1:2010)

Safety of machinery – Permanent means of access to machinery – Part 2: Working platforms and walkways (ISO 14122-2:2001/Amd 1:2010; EN ISO 14122-2:2001/A1:2010)

- zamijenjena s: HRN EN ISO 14122-2:2016

**HRN EN ISO 14122-4:2008/A1:2012 en**

Sigurnost strojeva – Trajni način prilaza strojevima – 4. dio: Nepomične ljestve  
(ISO 14122-4:2004/Amd 1:2010; EN ISO 14122-4:2004/A1:2010)

Safety of machinery – Permanent means of access to machinery – Part 4: Fixed ladders  
(ISO 14122-4:2004/Amd 1:2010; EN ISO 14122-4:2004/A1:2010)

- zamijenjena s: HRN EN ISO 14122-4:2016

**HNZ/TO 568, *Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranaom*****HRN EN 14130:2005 en**

Namirnice – Određivanje vitamina C metodom tekućinske kromatografije visokog učinka (HPLC)  
(EN 14130:2003)

Foodstuffs – Determination of vitamin C by HPLC (EN 14130:2003)

- bez zamjene

**HRN EN 14176:2005 en**

Namirnice – Određivanje domoične kiseline u školjkama metodom tekućinske kromatografije visokog učinka (HPLC) (EN 14176:2003)

Foodstuffs – Determination of domoic acids in mussels by HPLC (EN 14176:2003)

- zamijenjena s: HRN EN 14176:2017

**HRN EN 14333-1:2005 en**

Nemasna hrana – Određivanje benzimidazolnih fungicida karbendazima, tiabendazola i benomila (kao karbendazim) – 1.dio: Metoda tekućinske kromatografije visokog učinka s čišćenjem apsorpcijom na čvrstoj fazi (EN 14333-1:2004)

Non fatty foods – Determination of benzimidazole fungicides carbendazim, thiabendazole and benomyl (as carbendazim) – Part 1: HPLC method with solid phase extraction clean up (EN 14333-1:2004)

- bez zamjene

**HRN EN 14333-2:2005 en**

Nemasna hrana – Određivanje benzimidazolnih fungicida karbendazima, tiabendazola i benomila (kao karbendazim) – 2.dio: Metoda tekućinske kromatografije visokog učinka s čišćenjem gel propusnom kromatografijom (EN 14333-2:2004)

Non fatty foods – Determination of benzimidazole fungicides carbendazim, thiabendazole and benomyl (as carbendazim) – Part 2: HPLC method with gel permeation chromatography clean up (EN 14333-2:2004)

- bez zamjene

**HRN EN 14333-3:2005 en**

Nemasna hrana – Određivanje benzimidazolnih fungicida karbendazima, tiabendazola i benomila (kao karbendazim) – 3.dio: Metoda tekućinske kromatografije visokog učinka s čišćenjem razdiobom između dviju tekućih faza (EN 14333-3:2004)

Non fatty foods – Determination of benzimidazole fungicides carbendazim, thiabendazole and benomyl (as carbendazim) – Part 3: HPLC method with liquid/liquid-partition clean up (EN 14333-3:2004)

- bez zamjene

**HNZ/TO 571, *Sport, igrališta i ostali rekreacijski sadržaji i oprema*****HRN EN 957-5:2009 en**

Oprema za vježbanje – 5. dio: Učvršćeni bicikli za vježbanje i poluge za vježbanje gornjega dijela tijela, dodatni posebni sigurnosni zahtjevi i metode ispitivanja (EN 957-5:2009)

Stationary training equipment – Part 5: Stationary exercise bicycles and upper body crank training equipment, additional specific safety requirements and test methods (EN 957-5:2009)

- zamijenjena s: HRN EN ISO 20957-5:2017

**HRN EN 12572-1:2008 en**

Umjetne strukture za penjanje – 1. dio: Sigurnosni zahtjevi i metode ispitivanja za umjetne penjačke strukture s točkama zaštite (EN 12572-1:2007)  
Artificial climbing structures – Part 1: Safety requirements and test methods for ACS with protection points (EN 12572-1:2007)  
- zamijenjena s: HRN EN 12572-1:2017

**HRN EN 12572-2:2009 en**

Umjetne penjačke strukture – 2. dio: Sigurnosni zahtjevi i metode ispitivanja za zidove sa stijenama (bouldering) (EN 12572-2:2008)  
Artificial climbing structures – Part 2: Safety requirements and test methods for bouldering walls (EN 12572-2:2008)  
- zamijenjena s: HRN EN 12572-2:2017

**HRN EN 12572-3:2009 en**

Umjetne penjačke strukture – 3. dio: Sigurnosni zahtjevi i metode ispitivanja za oslonce za penjanje (EN 12572-3:2008)  
Artificial climbing structures – Part 3: Safety requirements and test methods for climbing holds (EN 12572-3:2008)  
- zamijenjena s: HRN EN 12572-3:2017

**HRN EN 13451-8:2008 en**

Oprema za bazene – 8. dio: Dodatni posebni sigurnosni zahtjevi i metode ispitivanja za vodene naprave za zabavu (EN 13451-8:2001)  
Swimming pool equipment – Part 8: Additional specific safety requirements and test methods for leisure water features (EN 13451-8:2001)  
- bez zamjene

**HZN/TO 574, *Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama*****HRN EN 15224:2014 en**

Usluge u zdravstvu – Sustavi upravljanja kvalitetom – Zahtjevi utemeljeni na EN ISO 9001:2008 (EN 15224:2012)  
Health care services – Quality management systems – Requirements based on EN ISO 9001:2008 (EN 15224:2012)  
- zamijenjena s: HRN EN 15224:2017

**HZN/TO E31, *Eksplozivne atmosfere*****HRN EN 1710:2009 en**

Oprema i komponente namijenjene uporabi u potencijalno eksplozivnim atmosferama podzemnih rudnika (EN 1710:2005+A1:2008)  
Equipment and components intended for use in potentially explosive atmospheres in underground mines (EN 1710:2005+A1:2008)  
- zamijenjena s: HRN EN ISO/IEC 80079-38:2017

**HRN EN 1710:2009/Ispr.1:2012 en**

Oprema i komponente namijenjene uporabi u potencijalno eksplozivnim atmosferama podzemnih rudnika (EN 1710:2005+A1:2008/AC:2010)  
Equipment and components intended for use in potentially explosive atmospheres in underground mines (EN 1710:2005+A1:2008/AC:2010)  
- zamijenjena s: HRN EN ISO/IEC 80079-38:2017

**HRN EN 1839:2013 en**

Određivanje granica eksplozivnosti za plinove i pare (EN 1839:2012)  
Determination of explosion limits of gases and vapours (EN 1839:2012)  
- zamijenjena s: HRN EN 1839:2017

**HRN EN 14756:2007 en**

Određivanje graničnih koncentracija kisika (GKK) zapaljivih plinova i para (EN 14756:2006)  
Determination of the limiting oxygen concentration (LOC) for flammable gases and vapours  
(EN 14756:2006)

- zamijenjena s: HRN EN 1839:2017

**HRN EN 14986:2007 en**

Konstrukcija ventilatora za potencijalno eksplozivne atmosfere (EN 14986:2007)  
Design of fans working in potentially explosive atmospheres (EN 14986:2007)

- zamijenjena s: HRN EN 14986:2017

**HN/T TO E62, *Električna oprema u medicinskoj praksi*****HRN EN ISO 13488:2003 en**

Sustavi kakvoće – Medicinski uređaji – Posebni zahtjevi za primjenu EN ISO 9002 (popravljeno izdanje norme EN 46002:1996) (istovjetno s ISO 13488:1996; EN ISO 13488:2000)  
Quality systems – Medical devices – Particular requirements for the application of EN ISO 9002  
(revision of EN 46002:1996) (identical to ISO 13488:1996; EN ISO 13488:2000)

- bez zamjene

**HRN EN 46001:2000 en**

Sustavi kakvoće – Medicinski uređaji – Posebni zahtjevi za primjenu EN ISO 9001 (EN 46001:1996)  
Quality systems – Medical devices – Particular requirements for the application of EN ISO 9001  
(EN 46001:1996)

- bez zamjene

**HRN EN 46002:2000 en**

Sustavi kakvoće – Medicinski uređaji – Posebni zahtjevi za primjenu EN ISO 9002 (EN 46002:1996)  
Quality systems – Medical devices – Particular requirements for the application of EN ISO 9002  
(EN 46002:1996)

- zamijenjena s: HRN EN ISO 13488:2003

**HRN EN 46003:2000 en**

Sustavi kakvoće – Medicinski uređaji – Posebni zahtjevi za primjenu EN ISO 9003 (EN 46003:1999)  
Quality systems – Medical devices – Particular requirements for the application of EN ISO 9003  
(EN 46003:1999)

- bez zamjene

**HN/T TO E79, *Alarmni sustavi*****HRN EN 50132-5-1:2012 en**

Alarmni sustavi – Sustavi nadzora pomoću TV zatvorenog kruga za uporabu u primjenama zaštite –  
Dio 5-1: Video prijenos – Opći zahtjevi za karakteristike video prijenosa  
(EN 50132-5-1:2011+AC:2012)

Alarm systems – CCTV surveillance systems for use in security applications – Part 5-1: Video  
transmission – General video transmission performance requirements (EN 50132-5-1:2011+AC:2012)

- zamijenjena s: HRN EN 62676-1-2:2015, HRN EN 62676-2-1:2015

**HRN EN 50132-5-2:2012 en**

Alarmni sustavi – Sustavi nadzora pomoću TV zatvorenog kruga za uporabu u primjenama zaštite –  
Dio 5-2: Protokoli za IP video prijenos (EN 50132-5-2:2011+AC:2012)

Alarm systems – CCTV surveillance systems for use in security applications – Part 5-2: IP Video  
Transmission Protocols (EN 50132-5-2:2011+AC:2012)

- zamijenjena s: HRN EN 62676-1-2:2015, HRN EN 62676-2-2:2015, HRN EN 62676-2-3:2015

**HRN EN 50518-1:2011 en**

Centar za nadzor i prijam alarma – 1. dio: Zahtjevi za smještaj i izgradnju (EN 50518-1:2010)  
Monitoring and alarm receiving centre – Part 1: Location and construction requirements  
(EN 50518-1:2010)

- zamijenjena s: HRN EN 50518-1:2014

**HRN EN 50518-2:2011 en**

Centar za nadzor i prijam alarma – 2. dio: Tehnički zahtjevi (EN 50518-2:2010+AC:2011)

Monitoring and alarm receiving centre – Part 2: Technical requirements (EN 50518-2:2010+AC:2011)

- zamjenjena s: HRN EN 50518-2:2014

**HRN EN 50518-3:2011 en**

Centar za nadzor i prijam alarma – 3. dio: Postupci i zahtjevi za rad (EN 50518-3:2011)

Monitoring and alarm receiving centre – Part 3: Procedures and requirements for operation  
(EN 50518-3:2011)

- zamjenjena s: HRN EN 50518-3:2014

**HNZ/TO Z1, Informacijska tehnologija****HRN EN 1362:2008 en**

Sustavi identifikacijskih kartica – Značajke sučelja između uređaja – Razredi sučelja između uređaja  
(EN 1362:1997)

Identification card systems – Device interface characteristics – Classes of device interfaces  
(EN 1362:1997)

- bez zamjene

**HRN EN 1375:2008 en**

Sustavi identifikacijskih kartica – Dodatni formati međugraničnih integriranih krugova kartice – Veličina i  
fizičke značajke kartice ID-000 (EN 1375:2002)

Identification card system – Intersector integrated circuit(s) card additional formats – ID-000 card size  
and physical characteristics (EN 1375:2002)

- bez zamjene

**HRN EN 1546-1:2008 en**

Sustavi identifikacijskih kartica – Međugranični elektronički novčanik – 1. dio: Odrednice, koncepti i  
sklopovi (EN 1546-1:1999)

Identification card systems – Inter-sector electronic purse – Part 1: Definitions, concepts and  
structures (EN 1546-1:1999)

- bez zamjene

**HRN EN 1546-2:2008 en**

Sustavi identifikacijskih kartica – Međugranični elektronički novčanik – 2. dio: Sigurnosna arhitektura  
(EN 1546-2:1999)

Identification card systems – Inter-sector electronic purse – Part 2: Security architecture  
(EN 1546-2:1999)

- bez zamjene

**HRN EN 1546-3:2008 en**

Sustavi identifikacijskih kartica – Međugranični elektronički novčanik – 3. dio: Dijelovi podataka i  
razmjena (EN 1546-3:1999)

Identification card systems – Inter-sector electronic purse – Part 3: Data elements and interchanges  
(EN 1546-3:1999)

- bez zamjene

**HRN EN 1546-4:2008 en**

Sustavi identifikacijskih kartica – Međugranični elektronički novčanik – 4. dio: Podatkovni objekti  
(EN 1546-4:1999)

Identification card systems – Inter-sector electronic purse – Part 4: Data objects (EN 1546-4:1999)

- bez zamjene

**HRN EN ISO/IEC 15415:2008 en**

Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacija za provjeru kakvoće tiskanja crtičnoga koda – Dvodimenzionalni znakovi (ISO/IEC 15415:2004; EN ISO/IEC 15415:2005)

Information technology – Automatic identification and data capture techniques – Bar code print quality test specification – Two-dimensional symbols (ISO/IEC 15415:2004; EN ISO/IEC 15415:2005)

- bez zamjene

**HRN EN ISO/IEC 15415:2008/Ispr.1:2012 en**

Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacija za provjeru kakvoće tiskanja crtičnoga koda – Dvodimenzionalni znakovi (ISO/IEC 15415:2004/Cor 1:2008; EN ISO/IEC 15415:2005/AC:2011)

Information technology – Automatic identification and data capture techniques – Bar code print quality test specification – Two-dimensional symbols – Technical Corrigendum 1 (ISO/IEC 15415:2004/Cor 1:2008; EN ISO/IEC 15415:2005/AC:2011)

- bez zamjene

**HN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1****HRN EN 131-2:2013 en**

Ljestve – 2. dio: Zahtjevi, ispitivanje, označivanje (EN 131-2:2010+A1:2012)

Ladders – Part 2: Requirements, testing, marking (EN 131-2:2010+A1:2012)

- zamijenjena s: HRN EN 131-2:2017

**HRS CEN/TS 16665:2015 en**

Specifikacija ispitivanja trajnosti samostojećih ljestvi (CEN/TS 16665:2014)

Standing ladder durability test specification (CEN/TS 16665:2014)

- zamijenjena s: HRN EN 131-2:2017

**HN/TU I2, Strojarstvo 2****HRN EN 442-3:2008 en**

Radijatori i konvektori – 3. dio: Procjena sukladnosti (EN 442-3:2003)

Radiators and convectors – Part 3: Evaluation of conformity (EN 442-3:2003)

- zamijenjena s: HRN EN 442-1:2015

**HRN EN 12151:2008 en**

Strojevi i postrojenja za pripremu betona i žbuke – Sigurnosni zahtjevi (EN 12151:2007)

Machinery and plants for the preparation of concrete and mortar – Safety requirements (EN 12151:2007)

- bez zamjene

**HN/TU N1, Nemetalni materijali 1****HRN EN 993-14:2008 en**

Metode ispitivanja neprozirnih vatrostalnih proizvoda – 14. dio: Određivanje toplinske provodljivosti metodom vruće žice (križni red) (EN 993-14:1998)

Methods of testing dense shaped refractory products – Part 14: Determination of thermal conductivity by the hot-wire (cross-array) method (EN 993-14:1998)

- zamijenjena s: HRN EN ISO 8894-1:2010

**HN/TU S1, Zdravlje, okoliš i medicinska oprema 1****HRN EN ISO 595-2:2008 en**

Višekratne šprice od stakla ili od metala i stakla za medicinsku primjenu – 2. dio: Dizajn, izvedbeni zahtjevi i ispitivanja (ISO 595-2:1987; EN ISO 595-2:1994)

Reusable all-glass or metal-and-glass syringes for medical use – Part 2: Design, performance requirements and tests (ISO 595-2:1987; EN ISO 595-2:1994)

- bez zamjene

**HRN EN 1060-4:2008 en**

Neinvazivni sfigmomanometri – 4. dio: Postupci ispitivanja za određivanje opće točnosti sustava automatskih neinvazivnih sfigmomanometara (EN 1060-4:2004)

Non-invasive sphygmomanometers – Part 4: Test procedures to determine the overall system accuracy of automated non-invasive sphygmomanometers (EN 1060-4:2004)

- zamijenjena s: HRN EN ISO 81060-2:2014

**HRN EN ISO 1559:2004 en**

Stomatološki materijali – Slitine za stomatološki amalgam (ISO 1559:1995+Cor 1:1997; EN ISO 1559:2001)

Dental materials – Alloys for dental amalgam (ISO 1559:1995+Cor 1:1997; EN ISO 1559:2001)

- bez zamjene

**HRN EN ISO 1561:2004 en**

Stomatološki vosak za modeliranje (ISO 1561:1995; EN ISO 1561:1997)

Dental casting wax (ISO 1561:1995; EN ISO 1561:1997)

- bez zamjene

**HRN EN 1970:2008 en**

Prilagodivi kreveti za osobe s invaliditetom – Zahtjevi i metode ispitivanja (EN 1970:2000+A1:2005)

Adjustable beds for disabled persons – Requirements and test methods (EN 1970:2000+A1:2005)

- zamijenjena s: HRN EN 60601-2-52:2011

**HRN EN ISO 7490:2004 en**

Stomatološki materijali za ulaganje na temelju sadre (ISO 7490:2000; EN ISO 7490:2000)

Dental gypsum-bonded casting investments (ISO 7490:2000; EN ISO 7490:2000)

- bez zamjene

**HRN EN ISO 7493:2004 en**

Radni stolac stomatologa (ISO 7493:1997, uključujući Tehnički ispravak 1:1999; EN ISO 7493:2000)

Dental Operator's stool (ISO 7493:1997, including Technical Corrigendum 1:1999; EN ISO 7493:2000)

- zamijenjena s: HRN EN ISO 7493:2008

**HRN EN ISO 9694:2004 en**

Stomatološki materijali za ulaganje na temelju fosfata (ISO 9694:1996; EN ISO 9694:1998)

Dental phosphate-bonded casting investments (ISO 9694:1996; EN ISO 9694:1998)

- bez zamjene

**HRN EN ISO 10555-2:2008 en**

Sterilni jednokratni intravaskularni kateteri – 2. dio: Angiografski kateteri (ISO 10555-2:1996+Cor 1:2002; EN ISO 10555-2:1997+AC:2002)

Sterile, single-use intravascular catheters – Part 2: Angiographic catheters (ISO 10555-2:1996+Cor 1:2002; EN ISO 10555-2:1997+AC:2002)

- zamijenjena s: HRN EN ISO 10555-1:2013

**HRS ENV 12718:2009 en**

Medicinske čarape za kompresiju (ENV 12718:2001)

Medical compression hosiery (ENV 12718:2001)

- zamijenjena s: HRI CEN/TR 15831:2017

**HRS ENV 12719:2009 en**

Medicinske čarape za profilaksu tromboze (ENV 12719:2001)

Medical thrombosis prophylaxis hosiery (ENV 12719:2001)

- zamijenjena s: HRI CEN/TR 15831:2017

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

### **HRN EN 1726-2:2008 en**

Sigurnost industrijskih kamiona – Kamioni s vlastitim pogonom različitog dometa nosivosti do 10000 kg i traktori s kukom za vuču sile do 20000 N – 2. dio: Dodatni zahtjevi za kamione s operatorom na podignutom smještaju i kamioni posebno konstruirani za vožnju s dignutim teretom (EN 1726-2:2000) Safety of Industrial Trucks – Self-propelled trucks up to and including 10000 kg capacity and tractors with a drawbar pull up to and including 20000 N – Part 2: Additional requirements for trucks with elevating operator position and trucks specifically designed to travel with elevated loads (EN 1726-2:2000)

- zamjenjena s: HRN EN ISO 3691-3:2017

### **HRN EN 2714-002:2013 en**

Zrakoplovni niz – Kabeli, električni, jednojezgreni i višejezgreni za opću upotrebu – Radne temperature između – 55 °C i 260 °C – 002. dio: Oklopljeni i omotani – Općenito (EN 2714-002:2012) Aerospace series – Cables, electrical, single and multicore for general purpose – Operating temperatures between – 55 °C and 260 °C – Part 002: Screened and jacketed – General (EN 2714-002:2012)

- zamjenjena s: HRN EN 2714-002:2017

### **HRN EN 3672:2008 en**

Nizovi o zrakoplovstvu – Držać matica, samozatvarajući, legura na bazi nikla otporna na toplinu NI-P101HT (Waspaloy), prevučena srebrom, za kalup od 30° – Klasifikacija: 1 210 MPa (pri temperaturi okoline)/730 °C (EN 3672:2008)

Aerospace series – Shank nuts, self-locking, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated, for 30° swage – Classification: 1 210 MPa (at ambient temperature)/730 °C (EN 3672:2008)

- zamjenjena s: HRN EN 3672:2017

### **HRN EN 4179:2011 en**

Nizovi o zrakoplovstvu – Kvalifikacije i dopuštenje za rad djelatnika u poslovima nerazornog ispitivanja (EN 4179:2009)

Aerospace series – Qualification and approval of personnel for non-destructive testing (EN 4179:2009)

- zamjenjena s: HRN EN 4179:2017

### **HRN EN 4531-001:2012 en**

Nizovi o zrakoplovstvu – Spojnice, optičke, kružne, jednostrukice i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravni kontakti – 001. dio: Tehnička specifikacija (EN 4531-001:2012)

Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 001: Technical specification (EN 4531-001:2012)

- zamjenjena s: HRN EN 4531-001:2017

### **HRN EN 4644-002:2012 en**

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 002. dio: Specifikacije značajki i položaj kontakata (EN 4644-002:2012)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 002: Specification of performance and contact arrangements (EN 4644-002:2012)

- zamjenjena s: HRN EN 4644-002:2017

### **HRN EN 4644-142:2012 en**

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 142. dio: Veličina 4 utičnica za primjenu za stalak i ploču – Norma za proizvod (EN 4644-142:2012)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 142: Size 4 receptacle for rack and panel application – Product standard (EN 4644-142:2012)

- zamjenjena s: HRN EN 4644-142:2017

**HRN EN 12312-3:2010 en**

Oprema za zemaljsku podršku zrakoplovu – Posebni zahtjevi – 3. dio: Vozilo za konvejerske pojaseve

(EN 12312-3:2003+A1:2009)

Aircraft ground support equipment – Specific requirements – Part 3: Conveyor belt vehicles

(EN 12312-3:2003+A1:2009)

- zamijenjena s: HRN EN 12312-3:2017

**HRN EN 14089:2008 en**

Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Kontrola materijala ograničenog roka trajanja (EN 14089:2002)

Space product assurance – The control of limited shelf-life materials (EN 14089:2002)

- zamijenjena s: HRN EN 16602-70-22:2015

**HRN EN 14090:2008 en**

Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Ispitivanje zapaljivosti radi provjere materijala za svemir (EN 14090:2002)

Space product assurance – Flammability testing for the screening of space materials (EN 14090:2002)

- zamijenjena s: HRN EN 16602-70-21:2015

**HRN EN 14100:2008 en**

Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Određivanje hlapljivih kemikalija iz materijala i pridruženih dijelova za upotrebu u svemirskom odjeljenju namijenjenom posadi (EN 14100:2001)

Space product assurance – The determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment (EN 14100:2001)

- zamijenjena s: HRN EN 16602-70-29:2015

**HRN EN 14101:2008 en**

Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Izbor materijala radi kontrole loma zbog korozije i stresa (EN 14101:2001)

Space product assurance – Material selection for controlling stress-corrosion cracking (EN 14101:2001)

- zamijenjena s: HRN EN 16602-70-36:2015

**HRN EN 14736:2008 en**

Osiguravanje kvalitete proizvoda za upotrebu u svemiru – Osiguravanje kvalitete za ispitne centre (EN 14736:2004)

Space product assurance – Quality assurance for test centres (EN 14736:2004)

- zamijenjena s: HRN EN 16602-20-07:2016

**HRS CEN/TS 16165:2012 en**

Određivanje otpora na klizanje pješačkih površina – Metode vrednovanja (CEN/TS 16165:2012)

Determination of slip resistance of pedestrian surfaces – Methods of evaluation (CEN/TS 16165:2012)

- zamijenjena s: HRS CEN/TS 16165:2017

## **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 554, *Obrada otpadnih voda***

- **umjesto**

#### **HRN EN 1916:2005**

Betonske cijevi i oblikovni komadi, nearmirani, s čeličnim vlaknima i armirani  
(EN 1916:2002+AC:2003)

Concrete pipes and fittings, unreinforced, steel fibre and reinforced (EN 1916:2002+AC:2003)

- **treba biti**

#### **HRN EN 1916:2005**

Betonske cijevi i oblikovni komadi, nearmirani, s čeličnim vlaknima i armirani (EN 1916:2002)  
Concrete pipes and fittings, unreinforced, steel fibre and reinforced (EN 1916:2002)

- **umjesto**

#### **HRN EN 1917:2005**

Betonska kontrolna okna i komore, nearmirana, s čeličnim vlaknima i armirana  
(EN 1917:2002+AC:2003)

Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced  
(EN 1917:2002+AC:2003)

- **treba biti**

#### **HRN EN 1917:2005**

Betonska kontrolna okna i komore, nearmirana, s čeličnim vlaknima i armirana (EN 1917:2002)

Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced (EN 1917:2002)

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

- **umjesto**

#### **HRN EN 136:2002**

Zaštitne naprave za disanje – Maske za cijelo lice – Zahtjevi, ispitivanje, označivanje  
(EN 136:1998+AC:1999)

Respiratory protective devices – Full face masks – Requirements, testing, marking  
(EN 136:1998+AC:1999)

- **treba biti**

#### **HRN EN 136:2002**

Zaštitne naprave za disanje – Maske za cijelo lice – Zahtjevi, ispitivanje, označivanje (EN 136:1998)

Respiratory protective devices – Full face masks – Requirements, testing, marking (EN 136:1998)

- umjesto

**HRN EN 143:2005**

Zaštitne naprave za disanje – Filtri za čestice – Zahtjevi, ispitivanje, označivanje (EN 143:2000+AC:2002+AC:2005)

Respiratory protective devices – Particle filters – Requirements, testing, marking (EN 143:2000+AC:2002+AC:2005)

- treba biti

**HRN EN 143:2005**

Zaštitne naprave za disanje – Filtri za čestice – Zahtjevi, ispitivanje, označivanje (EN 143:2000+AC:2005)

Respiratory protective devices – Particle filters – Requirements, testing, marking (EN 143:2000+AC:2005)

**HZN/TO E79, Alarmni sustavi**

- umjesto

**HRN EN 62676-1-2:2015**

Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 1-2: **Video prijenos – Opći zahtjevi za izvedbu video prijenosa** (IEC 62676-1-2:2013; EN 62676-1-2:2014)

Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission (IEC 62676-1-2:2013; EN 62676-1-2:2014)

- treba biti

**HRN EN 62676-1-2:2015**

Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 1-2: **Zahtjevi za sustav – Zahtjevi za izvedbu video prijenosa** (IEC 62676-1-2:2013; EN 62676-1-2:2014)

Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission (IEC 62676-1-2:2013; EN 62676-1-2:2014)

- umjesto

**HRN EN 62676-1-2:2015/Ispr.1:2016**

Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 1-2: **Video prijenos – Opći zahtjevi za izvedbu video prijenosa** (EN 62676-1-2:2014/AC:2015)

Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission (EN 62676-1-2:2014/AC:2015)

- treba biti

**HRN EN 62676-1-2:2015/Ispr.1:2016**

Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 1-2: **Zahtjevi za sustav – Zahtjevi za izvedbu video prijenosa** (EN 62676-1-2:2014/AC:2015)

Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission (EN 62676-1-2:2014/AC:2015)

## **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 ETS 300 472 V1:2011**

Digitalna videoradiodifuzija (DVB) – Specifikacija za dopremu teleteksta ITU-R sustava B u protoku bita DVB-a (ETS 300 472 ed.1:1994)

Digital Video Broadcasting (DVB) – Specification for conveying ITU-R System B Teletext in DVB bitstreams (ETS 300 472 ed.1:1994)

#### **HRN ETS 300 472 V2:2011**

Digitalna videoradiodifuzija (DVB) – Specifikacija za dopremu teleteksta ITU-R sustava B u protoku bita DVB-a (ETS 300 472 ed.2:1996)

Digital Video Broadcasting (DVB) – Specification for conveying ITU-R System B Teletext in DVB bitstreams (ETS 300 472 ed.2:1996)

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

### **01.040.01 Opći pojmovi. Nazivlje. Normizacija. Dokumentacija (Rječnici)**

#### **Međunarodna normizacija**

**ISO**

ISO 12756:2016-11

Drawing and writing instruments – Ball point pens and roller ball pens – Vocabulary

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

#### **Međunarodna normizacija**

**ISO**

ISO 374-1:2016-10

Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks

ISO 374-5:2016-10

Protective gloves against dangerous chemicals and micro-organisms – Part 5: Terminology and performance requirements for micro-organisms risks

### **01.040.53 Oprema za rukovanje materijalima (Rječnici)**

#### **Međunarodna normizacija**

**ISO**

ISO 4306-3:2016-10

Cranes – Vocabulary – Part 3: Tower cranes

### **01.040.55 Ambalaža, pakiranje i distribucija robe (Rječnici)**

#### **Međunarodna normizacija**

**ISO**

ISO 21067-1:2016-10

Packaging – Vocabulary – Part 1: General terms

### **01.040.79 Drvna tehnologija (Rječnici)**

#### **Međunarodna normizacija**

**ISO**

ISO 17064:2016-10

Wood-based panels – Fibreboard, particleboard and oriented strand board (OSB) – Vocabulary

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

**Međunarodna normizacija**  
**ISO**

ISO 12756:2016-11  
Drawing and writing instruments – Ball point pens and roller ball pens – Vocabulary

**01.070** Kodiranje bojama

**Europska normizacija**  
**CEN**

EN 60062:2016-10  
Marking codes for resistors and capacitors (IEC 60062:2016)

**Međunarodna normizacija**  
**IEC**

IEC 61605:2016-10  
Fixed inductors for use in electronic and telecommunication equipment – Marking codes

**01.080.10** Simboli za javne obavijesti

**Međunarodna normizacija**  
**ISO**

ISO 7010 AMD 7:2016-10  
Graphical symbols – Safety colours and safety signs – Registered safety signs; Amendment 1

**01.080.20** Grafički simboli za upotrebu na posebnoj opremi

**Međunarodna normizacija**  
**ISO**

ISO 7010 AMD 7:2016-10  
Graphical symbols – Safety colours and safety signs – Registered safety signs; Amendment 1

**01.100.40** Oprema za crtanje

**Međunarodna normizacija**  
**ISO**

ISO 12756:2016-11  
Drawing and writing instruments – Ball point pens and roller ball pens – Vocabulary

## **01.110                    Tehnička dokumentacija o proizvodu**

### **Međunarodna normizacija IEC**

IEC 61360-6:2016-10

Standard data element types with associated classification scheme for electric components – Part 6:  
IEC Common Data Dictionary (IEC CDD) quality guidelines

IEC 63000:2016-10

Technical documentation for the assessment of electrical and electronic products with respect to the  
restriction of hazardous substances

## **03.080.99                Ostale usluge**

### **Europska normizacija CEN**

EN 16872:2016-10

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

### **Međunarodna normizacija ISO**

ISO/IEC TR 20000-12:2016-10

Information technology – Service management – Part 12: Guidance on the relationship between  
ISO/IEC 20000-1:2011 and service management frameworks: CMMI-SVC

## **03.100.01                Ustroj poduzeća i upravljanje poduzećem općenito**

### **Međunarodna normizacija ISO**

ISO 22325:2016-10

Security and resilience – Emergency management – Guidelines for capability assessment

ISO 37001:2016-10

Anti-bribery management systems – Requirements with guidance for use

## **03.100.30                Upravljanje ljudskim resursima**

### **Europska normizacija CEN**

EN 16872:2016-10

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

**03.120.10                    Upravljanje kvalitetom i osiguravanje kvalitete**

**Međunarodna normizacija**  
**ISO**

ISO 22870:2016-11  
Point-of-care testing (POCT) – Requirements for quality and competence

**03.220.01                    Prijevoz općenito**

**Međunarodna normizacija**  
**ISO**

ISO 18682:2016-10  
Intelligent transport systems – External hazard detection and notification systems – Basic requirements

**03.220.20                    Cestovni prijevoz**

**Međunarodna normizacija**  
**ISO**

ISO 19080:2016-10  
Intelligent transport systems – Communications access for land mobiles (CALM) – CoAP facility

ISO/TR 19083-1:2016-10  
Intelligent transport systems – Emergency evacuation and disaster response and recovery – Part 1: Framework and concept of operation

**03.220.30                    Željeznički prijevoz**

**Europska normizacija**  
**CEN**

EN 62625-1/AC:2016-10  
Electronic railway equipment – On board driving data recording system – Part 1: System specification (IEC 62625-1:2013/COR1:2016)

**Međunarodna normizacija**  
**IEC**

IEC 62625-1 Corrigendum 1:2016-10  
Electronic railway equipment – On board driving data recording system – Part 1: System specification; Corrigendum 1

**11.040.10                    Anestezija, respiracijska i reanimacijska oprema**

**Europska normizacija**  
**CEN**

EN ISO 5366:2016-10  
Anaesthetic and respiratory equipment – Tracheostomy tubes and connectors (ISO 5366:2016)

**Međunarodna normizacija  
ISO**

ISO 18190:2016-11  
Anaesthetic and respiratory equipment – General requirements for airways and related equipment

**11.040.20 Transfuzijska, infuzijska i injekcijska oprema**

**Europska normizacija  
CEN**

EN ISO 8536-13:2016-10  
Infusion equipment for medical use – Part 13: Graduated flow regulators for single use with fluid contact (ISO 8536- 13:2016)

**Međunarodna normizacija  
ISO**

ISO 1135-3:2016-11  
Transfusion equipment for medical use – Part 3: Blood-taking sets for single use

ISO 8871-5:2016-10  
Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 5: Functional requirements and testing

**11.040.25 Šprice, Igle, Kateteri**

**Međunarodna normizacija  
ISO**

ISO 80369-7:2016-10  
Small-bore connectors for liquids and gases in healthcare applications – Part 7: Connectors for intravascular or hypodermic applications

**11.040.30 Kirurški instrumenti i materijali**

**Europska normizacija  
CEN**

EN ISO 7153-1:2016-10  
Surgical instruments – Materials – Part 1: Metals (ISO 7153-1:2016)

**Međunarodna normizacija  
ISO**

ISO 7153-1:2016-10  
Surgical instruments – Materials – Part 1: Metals

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

##### **Europska normizacija**

**CEN**

EN 301559 V 2.1.1:2016-10

Short Range Devices (SRD) – Low Power Active Medical Implants (LP-AMI) and associated Peripherals (LP-AMI-P) operating in the frequency range 2483,5 MHz to 2500 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

##### **Međunarodna normizacija**

**ISO**

ISO 5832-3:2016-10

Implants for surgery – Metallic materials – Part 3: Wrought titanium 6-aluminium 4-vanadium alloy

#### **11.040.60                  Terapeutska oprema**

##### **Europska normizacija**

**CENELEC**

EN 60601-2-3/A1:2016-09

Medical electrical equipment – Part 2-3: Particular requirements for the basic safety and essential performance of short-wave therapy equipment (IEC 60601-2-3:2012/A1:2016)

EN 60601-2-6/A1:2016-09

Medical electrical equipment – Part 2-6: Particular requirements for the basic safety and essential performance of microwave therapy equipment (IEC 60601-2-6:2012/A1:2016)

#### **11.040.70                  Oftalmološka oprema**

##### **Europska normizacija**

**CEN**

EN ISO 10938:2016-10

Ophthalmic optics – Chart displays for visual acuity measurement – Printed, projected and electronic (ISO 10938:2016)

EN ISO 11381:2016-10

Ophthalmic optics – Spectacle frames – Screw threads (ISO 11381:2016)

##### **Međunarodna normizacija**

**ISO**

ISO 12870:2016-11

Ophthalmic optics – Spectacle frames – Requirements and test methods

**IEC**

IEC 80601-2-58 AMD 1:2016-10

Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery; Amendment 1

IEC 80601-2-58 AMD 1:2016-10

Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery; Amendment 1

IEC 80601-2-58 Edition 2.1:2016-10

Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery

**11.060.15 Stomatološki implantati**

**Međunarodna normizacija**

**ISO**

ISO 14801:2016-11

Dentistry – Implants – Dynamic loading test for endosseous dental implants

**11.060.25 Stomatološki instrumenti**

**Europska normizacija**

**CEN**

EN ISO 17509:2016-10

Dentistry – Torque transmitter for handpieces (ISO 17509:2016)

**Međunarodna normizacija**

**ISO**

ISO 9173-1:2016-10

Dentistry – Extraction forceps – Part 1: General requirements

**11.100.01 Laboratorijska medicina općenito**

**Međunarodna normizacija**

**ISO**

ISO 22870:2016-11

Point-of-care testing (POCT) – Requirements for quality and competence

**11.180.01 Pomagala za osobe s invaliditetom općenito**

**Međunarodna normizacija**

**ISO**

ISO 9999:2016-10

Assistive products for persons with disability – Classification and terminology

**11.180.20 Pomagala za inkontinenciju i ostomiju**

**Međunarodna normizacija**

**ISO**

ISO 12505-2:2016-10

Skin barrier for ostomy aids – Test methods – Part 2: Wet integrity and adhesive strength

**13.020.10                  Upravljanje okolišem**

**Europska normizacija**  
**CEN**

CEN/TR 17004:2016-10

Mechanical products – Conditions to set up environmental communication models by recognizing sectorial particularities

**13.020.20                  Ekogospodarstvo**

**Međunarodna normizacija**  
**ISO**

IEC/TR 62921:2016-10

Quantification methodology for greenhouse gas emissions for computers and monitors

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

**Međunarodna normizacija**  
**ISO**

ISO 27913:2016-11

Carbon dioxide capture, transportation and geological storage – Pipeline transportation systems

**13.030.01                  Otpad općenito**

**Europska normizacija**  
**CEN**

EN 16170:2016-10

Sludge, treated biowaste and soil – Determination of elements using inductively coupled plasma optical emission spectrometry (ICP-OES)

EN 16171:2016-10

Sludge, treated biowaste and soil – Determination of elements using inductively coupled plasma mass spectrometry (ICP-MS)

**13.040.20                  Atmosfera okoliša**

**Međunarodna normizacija**  
**ISO**

ISO 22262-3:2016-10

Air quality – Bulk materials – Part 3: Quantitative determination of asbestos by X-ray diffraction method

## **13.080.10 Kemijske značajke tla**

### **Europska normizacija CEN**

EN 16170:2016-10

Sludge, treated biowaste and soil – Determination of elements using inductively coupled plasma optical emission spectrometry (ICP-OES)

EN 16171:2016-10

Sludge, treated biowaste and soil – Determination of elements using inductively coupled plasma mass spectrometry (ICP-MS)

## **13.080.20 Fizikalna svojstva tla**

### **Međunarodna normizacija ISO**

ISO 17892-4:2016-11

Geotechnical investigation and testing – Laboratory testing of soil – Part 4: Determination of particle size distribution

ISO 18674-2:2016-10

Geotechnical investigation and testing – Geotechnical monitoring by field instrumentation – Part 2: Measurement of displacements along a line: Extensometers

## **13.110 Sigurnost strojeva**

### **Međunarodna normizacija IEC**

IEC 60204-1:2016-10

Safety of machinery – Electrical equipment of machines – Part 1: General requirements

IEC 61010-2-120:2016-10

Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-120: Particular safety requirements for machinery aspects of equipment

## **13.160 Utjecaj vibracija i udara na ljude**

### **Međunarodna normizacija ISO**

ISO 10326-1:2016-10

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements

## **13.200 Zaštita od nezgoda i velikih nesreća**

### **Međunarodna normizacija ISO**

ISO/TR 19083-1:2016-10

Intelligent transport systems – Emergency evacuation and disaster response and recovery – Part 1: Framework and concept of operation

**13.220.10                    Vatrogastvo**

**Međunarodna normizacija  
ISO**

ISO 16852:2016-10  
Flame arresters – Performance requirements, test methods and limits for use

**13.280                    Zaštita od zračenja**

**Međunarodna normizacija  
ISO**

ISO/CIE 28077:2016-10  
Photocarcinogenesis action spectrum (non-melanoma skin cancers)

**13.300                    Zaštita od opasnih tvari**

**Međunarodna normizacija  
IEC**

IEC 63000:2016-10  
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

**13.340.10                Zaštitna odjeća**

**Međunarodna normizacija  
ISO**

ISO 20471 AMD 1:2016-10  
High visibility clothing – Test methods and requirements; Amendment 1

**13.340.40                Zaštita ruku i šaka**

**Međunarodna normizacija  
ISO**

ISO 374-1:2016-10  
Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks

ISO 374-5:2016-10  
Protective gloves against dangerous chemicals and micro-organisms – Part 5: Terminology and performance requirements for micro-organisms risks

## **17.040.20 Svojstva površina**

**Međunarodna normizacija**  
**ISO**

ISO/TR 21074:2016-11

Application of ISO 5725 for the determination of repeatability and reproducibility of precision tests performed in standardization work for chemical analysis of steel

## **17.140.20 Buka koju proizvode strojevi i oprema**

**Međunarodna normizacija**  
**IEC**

IEC 60704-2-13:2016-10

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-13: Particular requirements for range hoods and other cooking fume extractors

## **17.180.20 Boje i mjerjenje svjetlosti**

**Međunarodna normizacija**  
**IEC**

ISO/CIE 28077:2016-10

Photocarcinogenesis action spectrum (non-melanoma skin cancers)

## **17.200.20 Mjerni instrumenti za mjerjenje temperature**

**Europska normizacija**  
**CENELEC**

EN 61340-2-3:2016-10

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)

**Međunarodna normizacija**  
**IEC**

IEC 61010-2-120:2016-10

Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-120: Particular safety requirements for machinery aspects of equipment

IEC/TR 62689-100:2016-10

Current and voltage sensors or detectors, to be used for fault passage indication purposes – Part 100: Requirements and proposals for the IEC 61850 series data model extensions to support fault passage indicators applications

## **17.240 Mjerenja zračenja**

**Europska normizacija**  
**CENELEC**

EN 62618:2016-10

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

EN 62694:2016-10

Radiation protection instrumentation – Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material (IEC 62694:2014)

**Međunarodna normizacija**

**IEC**

IEC 62226-3-1 AMD 1:2016-10

Exposure to electric or magnetic fields in the low and intermediate frequency range – Methods for calculating the current density and internal electric field induced in the human body – Part 3-1: Exposure to electric fields – Analytical and 2D numerical models; Amendment 1

IEC 62226-3-1 Edition 1.1:2016-10

Exposure to electric or magnetic fields in the low and intermediate frequency range – Methods for calculating the current density and internal electric field induced in the human body – Part 3-1: Exposure to electric fields – Analytical and 2D numerical models

**19.080**

**Električna i elektronička ispitivanja**

**Europska normizacija**

**CENELEC**

EN 61180:2016-10

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

**21.040.10**

**Metrički vijčani navozi**

**Europska normizacija**

**CEN**

EN ISO 11381:2016-10

Ophthalmic optics – Spectacle frames – Screw threads (ISO 11381:2016)

**23.020.40**

**Kriogeničke posude**

**Europska normizacija**

**CEN**

EN ISO 21028-1:2016-10

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

**23.040.70**

**Crijeva i crijevni sklopovi**

**Europska normizacija**

**CEN**

EN ISO 7233:2016-10

Rubber and plastics hoses and hose assemblies – Determination of resistance to vacuum (ISO 7233:2016)

EN ISO 7326:2016-10

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

**Međunarodna normizacija**  
**ISO**

ISO 2398:2016-11

Rubber hoses, textile-reinforced, for compressed air – Specification

ISO 7233:2016-10

Rubber and plastics hoses and hose assemblies – Determination of resistance to vacuum

ISO 7326:2016-10

Rubber and plastics hoses – Assessment of ozone resistance under static conditions

ISO 7751:2016-11

Rubber and plastics hoses and hose assemblies – Ratios of proof and burst pressure to maximum working pressure

ISO 8331:2016-11

Rubber and plastics hoses and hose assemblies – Guidelines for selection, storage, use and maintenance

**23.100.60                          Filtri, brtve i onečišćenje fluida**

**Međunarodna normizacija**  
**ISO**

ISO 11171:2016-10

Hydraulic fluid power – Calibration of automatic particle counters for liquids

ISO 21018-4:2016-10

Hydraulic fluid power – Monitoring the level of particulate contamination in the fluid – Part 4: Use of the light extinction technique

**25.040.01                          Sustavi industrijske automatizacije općenito**

**Međunarodna normizacija**  
**IEC**

IEC 62952-1:2016-10

Power sources for a wireless communication device – Part 1: General requirements of power modules

**25.040.40                          Mjerenje i upravljanje u industrijskim procesima**

**Europska normizacija**  
**CEN/CENELEC**

EN 61069-1:2016-10

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 1: Terminology and basic concepts (IEC 61069-1:2016)

EN 61069-2:2016-10

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 2: Assessment methodology (IEC 61069-2:2016)

EN 61069-3:2016-10

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 61069-5:2016-09

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 5: Assessment of system dependability (IEC 61069-5:2016)

EN 61069-6:2016-09

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 6: Assessment of system operability (IEC 61069-6:2016)

EN 61069-7:2016-09

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 7: Assessment of system safety (IEC 61069-7:2016)

EN 61069-8:2016-09

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 8: Assessment of other system properties (IEC 61069-8:2016)

EN ISO 16739:2016-10

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

#### **Međunarodna normizacija ISO**

ISO 18828-2:2016-10

Industrial automation systems and integration – Standardized procedures for production systems engineering – Part 2: Reference process for seamless production planning

### **25.060.20                    Diobene i stezne naprave za alat i obradak**

#### **Međunarodna normizacija ISO**

ISO 4202:2016-11

Reduction sleeves with external 7/24 taper for tools with Morse taper shanks

ISO 4207:2016-11

Counterbores with Morse taper shanks and detachable pilots

### **25.100.20                    Alati za glodanje**

#### **Međunarodna normizacija ISO**

ISO 2584:2016-10

Cylindrical cutters with plain bore and key drive – Metric series

ISO 12197:2016-11

Woodruff keyseat cutters – Dimensions

## **25.100.30 Svrđla, upuštači, razvrtaci**

### **Međunarodna normizacija ISO**

ISO 235:2016-11

Parallel shank jobber and stub series drills and Morse taper shank drills

ISO 2540:2016-11

Centre drills for centre holes with protecting chamfer – Type B

ISO 2541:2016-11

Centre drills for centre holes with radius form – Type R

ISO 3291:2016-11

Extra-long Morse taper shank twist drills

ISO 3292:2016-10

Extra-long parallel shank twist drills

ISO 4204:2016-10

Countersinks, 90°, with Morse taper shanks and detachable pilots

ISO 4205:2016-11

Countersinks, 90°, with parallel shanks and solid pilots

ISO 4206:2016-10

Counterbores with parallel shanks and solid pilots

ISO 7079:2016-10

Core drills with parallel shanks and with Morse taper shanks

## **25.100.50 Ureznici i kalupi za navoje**

### **Međunarodna normizacija ISO**

ISO 4230:2016-10

Hand- and machine-operated circular screwing dies for taper pipe threads – R series

ISO 4231:2016-10

Hand- and machine-operated circular screwing dies for parallel pipe threads – G series

## **25.140.20 Električni alati**

### **Europska normizacija CENELEC**

EN 62841-2-8:2016-10

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-8: Particular requirements for hand-held shears and nibblers (IEC 62841-2-8:2016, modified)

EN 62841-2-9/AC:2016-10

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/COR1:2015)

## **25.160.10                  Procesi zavarivanja**

### **Europska normizacija CEN**

EN ISO 15614-7:2016-10

Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 7: Overlay welding (ISO 15614-7:2016)

### **Međunarodna normizacija ISO**

ISO 15614-7:2016-10

Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 7: Overlay welding

## **25.160.40                  Zavareni spojevi i zavari**

### **Međunarodna normizacija ISO**

ISO 17638:2016-10

Non-destructive testing of welds – Magnetic particle testing

## **25.160.50                  Tvrdo i meko lemljenje**

### **Europska normizacija CEN**

EN 62739-2:2016-10

Test method for erosion of wave soldering equipment using molten lead-free solder alloy – Part 2: Erosion test method for metal materials with surface processing (IEC 62739-2:2016)

## **27.010                    Tehnika prijenosa energije i topline općenito**

### **Europska normizacija CEN**

CWA 16975/AC:2016-10

Eco-efficient Substations for District Heating

### **Međunarodna normizacija ISO**

ISO 50047:2016-11

Energy savings – Determination of energy savings in organizations

## **27.010                    Energijkska učinkovitost. Očevanje energije općenito**

### **Europska normizacija CEN**

CWA 16975/AC:2016-10

Eco-efficient Substations for District Heating

## **27.120.20                  Nuklearne elektrane. Sigurnost**

### **Međunarodna normizacija IEC**

IEC 62646:2016-10

Nuclear power plants – Control rooms – Computer-based procedures

IEC 62859:2016-10

Nuclear power plants – Instrumentation and control systems – Requirements for coordinating safety and cybersecurity

## **27.160                  Solarna energetika**

### **Europska normizacija CEN**

EN ISO 22975-1:2016-10

Solar energy – Collector components and materials – Part 1: Evacuated tubes – Durability and performance (ISO 22975-1:2016)

EN ISO 22975-2:2016-10

Solar energy – Collector components and materials – Part 2: Heat-pipes for solar thermal application – Durability and performance (ISO 22975-2:2016)

## **27.180                  Sustavi vjetroagregata**

### **Europska normizacija CENELEC**

EN 61400-12-2/AC:2016-10

Wind turbines – Part 12-2: Power performance of electricityproducing wind turbines based on nacelle anemometry (IEC 61400-12-2:2013/COR1:2016)

## **29.020                  Elektrotehnika općenito**

### **Europska normizacija CENELEC**

EN 61180:2016-10

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

### **Međunarodna normizacija IEC**

IEC 60204-1:2016-10

Safety of machinery – Electrical equipment of machines – Part 1: General requirements

**29.060.10** Žice

**Europska normizacija**  
**CENELEC**

EN 60851-4:2016-10

Winding wires – Test methods – Part 4: Chemical properties (IEC 60851-4:2016)

**29.100.20** Električki i elektromehanički sastavni dijelovi

**Međunarodna normizacija**  
**IEC**

IEC 61360-6:2016-10

Standard data element types with associated classification scheme for electric components – Part 6:  
IEC Common Data Dictionary (IEC CDD) quality guidelines

**29.120.40** Sklopke

**Europska normizacija**  
**CENELEC**

EN 61058-2-6:2016-10

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)

**29.120.50** Osigurači i ostale naprave za nadstrujnu zaštitu

**Europska normizacija**  
**CENELEC**

EN 60691:2016-10

Thermal-links – Requirements and application guide (IEC 60691:2015 + COR1:2016)

**Međunarodna normizacija**  
**IEC**

IEC 61643-351:2016-10

Components for low-voltage surge protective devices – Part 351: Performance requirements and test methods for telecommunications and signalling network surge isolation transformers (SIT)

**29.130.10** Visokonaponski rasklopni i upravljački uređaji

**Međunarodna normizacija**  
**IEC**

IEC 62271-212:2016-10

High-voltage switchgear and controlgear – Part 212: Compact Equipment Assembly for Distribution Substation (CEADS)

## **29.140.30                    Fluorescentne svjetiljke. Svjetiljke s izbojem**

### **Međunarodna normizacija IEC**

IEC 60969:2016-10

Self-ballasted compact fluorescent lamps for general lighting services – Performance requirements

## **29.140.40                    Rasvjetna tijela**

### **Europska normizacija CENELEC**

EN 60598-2-13/A2:2016-10

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

EN 60598-2-22/AC:2016-09

Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (IEC 60598-2-22:2014/COR2:2016)

## **29.140.99                    Ostale norme koje se odnose na svjetiljke**

### **Europska normizacija CENELEC**

EN 62612/AC:2016-10

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements (IEC 62612:2013/COR1:2016)

### **Međunarodna normizacija IEC**

IEC 62612 Corrigendum 1:2016-10

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements; Corrigendum 1

## **29.160.40                    Električni agregati**

### **Međunarodna normizacija IEC**

IEC 62040-5-3:2016-10

Uninterruptible power systems (UPS) – Part 5-3: DC output UPS – Performance and test requirements

## **29.180                        Transformatori. Prigušnice**

### **Međunarodna normizacija IEC**

IEC 61605:2016-10

Fixed inductors for use in electronic and telecommunication equipment – Marking codes

## **29.200                    Ispravljači. Pretvarači. Stabilizirano napajanje**

### **Europska normizacija CENELEC**

EN 61803/A2:2016-10

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

### **Međunarodna normizacija IEC**

IEC 61204-3:2016-10

Low-voltage switch mode power supplies – Part 3: Electromagnetic compatibility (EMC)

IEC 63002:2016-10

Identification and communication interoperability method for external power supplies used with portable computing devices

## **29.220.10                Primarni članci i baterije**

### **Europska normizacija CENELEC**

EN 60086-3:2016-09

Primary batteries – Part 3: Watch batteries (IEC 60086-3:2016)

### **Međunarodna normizacija IEC**

IEC 62952-2:2016-10

Power sources for a wireless communication device – Part 2: Profile for power modules with batteries

## **29.280                    Oprema za električnu vuču**

### **Međunarodna normizacija IEC**

IEC 62846:2016-10

Railway applications – Current collection systems – Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line

IEC 62917:2016-10

Railway applications – Fixed installations – Electric traction – Copper and copper alloy grooved contact wires

## **31.020                    Elektronički sastavni dijelovi općenito**

### **Međunarodna normizacija IEC**

IEC 61360-6:2016-10

Standard data element types with associated classification scheme for electric components – Part 6: IEC Common Data Dictionary (IEC CDD) quality guidelines

**31.040.01                    Otpornici općenito**

**Europska normizacija  
CENELEC**

EN 60062:2016-10  
Marking codes for resistors and capacitors (IEC 60062:2016)

**31.060.01                    Kondenzatori općenito**

**Europska normizacija  
CENELEC**

EN 60062:2016-10  
Marking codes for resistors and capacitors (IEC 60062:2016)

**31.060.10                    Nepromjenjivi kondenzatori**

**Europska normizacija  
CENELEC**

EN 60384-1:2016-09  
Fixed capacitors for use in electronic equipment – Part 1: Generic specification (IEC 60384-1:2016)

**31.060.40                    Tantalovi elektrolitski kondenzatori**

**Europska normizacija  
CENELEC**

EN 60384-3:2016-10  
Fixed capacitors for use in electronic equipment – Part 3: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with solid (MnO<sub>2</sub>) electrolyte (IEC 60384-3:2016)

**31.060.50                    Aluminijski elektrolitski kondenzatori**

**Europska normizacija  
CENELEC**

EN 60384-4:2016-10  
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 (IEC 60384-4:2016)

**31.060.70                    Energetski kondenzatori**

**Europska normizacija  
CENELEC**

EN 62146-1/A1:2016-10  
Grading capacitors for high-voltage alternating current circuit-breakers – Part 1: General (IEC 62146-1:2013/A1:2016)

**31.080.01 Poluvodičke naprave općenito**

**Europska normizacija  
CENELEC**

EN 60749-44:2016-10

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)

**31.120 Elektronički uređaji za prikazivanje**

**Međunarodna normizacija  
IEC**

IEC 62629-22-1:2016-10

3D display devices – Part 22-1: Measuring methods for autostereoscopic displays – Optical

**31.140 Piezoelektrične naprave**

**Međunarodna normizacija  
IEC**

IEC 62276:2016-10

Single crystal wafers for surface acoustic wave (SAW) device applications – Specifications and measuring methods

**31.180 Tiskani krugovi i pločice**

**Europska normizacija  
CENELEC**

EN 61189-2-719:2016-10

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

EN 61189-5-1:2016-09

Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-1: General test methods for materials and assemblies – Guidance for printed board assemblies (IEC 61189-5-1:2016)

**31.200 Integrirani krugovi. Mikroelektronika**

**Europska normizacija  
CENELEC**

EN 62433-4:2016-10

EMC IC modelling – Part 4: Models of integrated circuits for RF immunity behavioural simulation – Conducted immunity modelling (ICIM-CI) (IEC 62433-4:2016)

**31.260 Optoelektronika. Laserska oprema**

**Međunarodna normizacija  
IEC**

IEC 62629-22-1:2016-10

3D display devices – Part 22-1: Measuring methods for autostereoscopic displays – Optical

**33.040.40 Mreže za prijenos podataka**

**Europska normizacija  
ETSI**

ETSI GS NFV-IFA 007 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 011 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – VNF Packaging Specification

ETSI GS NFV-IFA 013 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 014 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Network Service Templates Specification

**33.040.99 Ostala oprema za komunikacijske sustave**

**Europska normizacija  
ETSI**

ETSI EG 203341 V 1.1.1:2016-10

Core Network and Interoperability Testing (INT) – Approaches for Testing Adaptive Networks

**33.050.99 Ostala telekomunikacijska terminalna oprema**

**Međunarodna normizacija  
IEC**

IEC 63002:2016-10

Identification and communication interoperability method for external power supplies used with portable computing devices

### **33.060.01 Radiokomunikacije općenito**

#### **Međunarodna normizacija IEC**

IEC 62952-1:2016-10

Power sources for a wireless communication device – Part 1: General requirements of power modules

### **33.060.20 Prijamna i odašiljačka oprema**

#### **Europska normizacija CENELEC**

EN 301559 V 2.1.1:2016-10

Short Range Devices (SRD) – Low Power Active Medical Implants (LP-AMI) and associated Peripherals (LP-AMI-P) operating in the frequency range 2483,5 MHz to 2500 MHz – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303039 V 2.1.2:2016-10

Land Mobile Service – Multichannel transmitter specification for the PMR Service – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

### **33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi**

#### **Europska normizacija CENELEC**

EN 303978 V 2.1.2:2016-10

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303979 V 2.1.2:2016-10

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in non-geostationary orbit, operating in the 27,5 GHz to 29,1 GHz and 29,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU

### **33.060.40 Kabelski distribucijski sustavi**

#### **Međunarodna normizacija IEC**

IEC/TR 60728-3-2:2016-10

Cable networks for television signals, sound signals and interactive services – Part 3-2: Method of measurement of 5th order non-linearity for active electronic equipment using five carriers

### **33.060.99 Ostala oprema za radiokomunikacije**

#### **Međunarodna normizacija IEC**

IEC 62952-2:2016-10

Power sources for a wireless communication device – Part 2: Profile for power modules with batteries

### **33.070.10 Terestrijalni trunking radio (TETRA)**

**Europska normizacija**  
**CENELEC**

EN 300392-5 V 2.5.1:2016-10

Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) and Direct Mode Operation (DMO) – Part 5: Peripheral Equipment Interface (PEI)

### **33.070.40 Sateliti**

**Europska normizacija**  
**CENELEC**

EN 303978 V 2.1.2:2016-10

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303979 V 2.1.2:2016-10

Satellite Earth Stations and Systems (SES) – Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in non-geostationary orbit, operating in the 27,5 GHz to 29,1 GHz and 29,5 GHz to 30,0 GHz frequency bands 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 103328 V 1.2.1:2016-10

Railways Telecommunications (RT) – GPRS/EGPRS requirements for European Train Control System (ETCS)

ETSI TS 124008 V 13.7.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 13.7.0 Release 13)

ETSI TS 124229 V 12.14.0:2016-10

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 12.14.0 Release 12)

ETSI TS 124229 V 13.7.0:2016-10

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 13.7.0 Release 13)

ETSI TS 124244 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Wireless LAN control plane protocol for trusted WLAN access to EPC – Stage 3 (3GPP TS 24.244 version 13.4.0 Release 13)

ETSI TS 124292 V 8.21.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 8.21.0 Release 8)

ETSI TS 124292 V 9.19.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 9.19.0 Release 9)

ETSI TS 124292 V 10.16.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 10.16.0 Release 10)

ETSI TS 124292 V 11.10.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 11.10.0 Release 11)

ETSI TS 124292 V 12.10.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 12.10.0 Release 12)

ETSI TS 124292 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 13.4.0 Release 13)

ETSI TS 124301 V 13.7.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS) – Stage 3 (3GPP TS 24.301 version 13.7.0 Release 13)

ETSI TS 124302 V 13.7.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks – Stage 3 (3GPP TS 24.302 version 13.7.0 Release 13)

ETSI TS 124312 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Access Network Discovery and Selection Function (ANDSF) Management Object (MO) (3GPP TS 24.312 version 13.4.0 Release 13)

ETSI TS 124333 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) Management Objects (MO) (3GPP TS 24.333 version 13.4.0 Release 13)

ETSI TS 124334 V 13.5.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects – Stage 3 (3GPP TS 24.334 version 13.5.0 Release 13)

ETSI TS 124390 V 11.8.0:2016-10

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 11.8.0 Release 11)

ETSI TS 124390 V 12.6.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS – Stage 3 (3GPP TS 24.390 version 12.6.0 Release 12)

ETSI TS 124390 V 13.2.0:2016-10

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 13.2.0 Release 13)

ETSI TS 125123 V 12.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (TDD) (3GPP TS 25.123 version 12.2.0 Release 12)

ETSI TS 125123 V 13.1.0:2016-10

Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (TDD) (3GPP TS 25.123 version 13.1.0 Release 13)

ETSI TS 126103 V 13.3.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Speech codec list for GSM and UMTS (3GPP TS 26.103 version 13.3.0 Release 13)

ETSI TS 126114 V 8.15.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 8.15.0 Release 8)

ETSI TS 126114 V 9.15.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 9.15.0 Release 9)

ETSI TS 126114 V 10.11.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 10.11.0 Release 10)

ETSI TS 126114 V 11.12.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 11.12.0 Release 11)

ETSI TS 126114 V 12.15.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 12.15.0 Release 12)

ETSI TS 126114 V 13.5.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 13.5.0 Release 13)

ETSI TS 126179 V 13.2.0:2016-10

LTE – Mission Critical Push To Talk (MCPTT) – Codecs and media handling (3GPP TS 26.179 version 13.2.0 Release 13)

ETSI TS 126244 V 12.5.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end packet switched streaming service (PSS) – 3GPP file format (3GP) (3GPP TS 26.244 version 12.5.0 Release 12)

ETSI TS 126244 V 13.4.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end packet switched streaming service (PSS) – 3GPP file format (3GP) (3GPP TS 26.244 version 13.4.0 Release 13)

ETSI TS 126346 V 11.14.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 11.14.0 Release 11)

ETSI TS 126346 V 12.11.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 12.11.0 Release 12)

ETSI TS 126346 V 13.6.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 13.6.0 Release 13)

ETSI TS 126442 V 12.8.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (fixed-point) (3GPP TS 26.442 version 12.8.0 Release 12)

ETSI TS 126442 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (fixed-point) (3GPP TS 26.442 version 13.3.0 Release 13)

ETSI TS 126443 V 12.7.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (floating-point) (3GPP TS 26.443 version 12.7.0 Release 12)

ETSI TS 126443 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (floating-point) (3GPP TS 26.443 version 13.3.0 Release 13)

ETSI TS 126444 V 12.8.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Test sequences (3GPP TS 26.444 version 12.8.0 Release 12)

ETSI TS 126444 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Test sequences (3GPP TS 26.444 version 13.3.0 Release 13)

ETSI TS 126454 V 13.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Interface to Iu, Uu, Nb and Mb (3GPP TS 26.454 version 13.2.0 Release 13)

ETSI TR 126949 V 13.1.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Video formats for 3GPP services (3GPP TR 26.949 version 13.1.0 Release 13)

ETSI TS 128656 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.656 version 13.3.0 Release 13)

ETSI TS 128663 V 13.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.663 version 13.2.0 Release 13)

ETSI TS 129002 V 13.5.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 13.5.0 Release 13)

ETSI TS 129118 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Mobility Management Entity (MME) – Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 13.4.0 Release 13)

ETSI TS 129230 V 13.6.0:2016-10

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 13.6.0 Release 13)

ETSI TS 129272 V 13.7.0:2016-10

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 13.7.0 Release 13)

ETSI TS 129273 V 13.5.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 13.5.0 Release 13)

ETSI TS 129274 V 13.7.0:2016-10

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 13.7.0 Release 13)

ETSI TS 129328 V 11.18.0:2016-10

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 11.18.0 Release 11)

ETSI TS 129328 V 12.13.0:2016-10

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 12.13.0 Release 12)

ETSI TS 129328 V 13.6.0:2016-10

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 13.6.0 Release 13)

ETSI TS 129336 V 11.3.0:2016-10

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 11.3.0 Release 11)

ETSI TS 129336 V 12.6.0:2016-10

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 12.6.0 Release 12)

ETSI TS 129336 V 13.5.0:2016-10

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 13.5.0 Release 13)

ETSI TS 132253 V 13.1.0:2016-10

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 13.1.0 Release 13)

ETSI TS 132274 V 13.1.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Short Message Service (SMS) charging (3GPP TS 32.274 version 13.1.0 Release 13)

ETSI TS 132298 V 13.5.0:2016-10

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 13.5.0 Release 13)

ETSI TS 132299 V 13.6.0:2016-10

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 13.6.0 Release 13)

ETSI TS 133107 V 13.4.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Lawful interception architecture and functions (3GPP TS 33.107 version 13.4.0 Release 13)

ETSI TS 133108 V 13.3.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 13.3.0 Release 13)

ETSI TS 133179 V 13.2.0:2016-10

LTE – Security of Mission Critical Push To Talk (MCPTT) over LTE (3GPP TS 33.179 version 13.2.0 Release 13)

ETSI TS 133401 V 13.4.0:2016-10

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 13.4.0 Release 13)

ETSI TR 133926 V 13.1.0:2016-10

LTE – Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes (3GPP TR 33.926 version 13.1.0 Release 13)

ETSI TS 136104 V 13.5.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 13.5.0 Release 13)

ETSI TS 136133 V 9.23.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 9.23.0 Release 9)

ETSI TS 136141 V 13.5.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 13.5.0 Release 13)

ETSI TS 136304 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 13.3.0 Release 13)

ETSI TS 136307 V 8.16.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 8.16.0 Release 8)

ETSI TS 136307 V 9.18.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 9.18.0 Release 9)

ETSI TS 136307 V 10.20.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 10.20.0 Release 10)

ETSI TS 136307 V 11.17.0 2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 11.17.0 Release 11)

ETSI TS 136307 V 12.13.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 12.13.0 Release 12)

ETSI TS 136307 V 13.5.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 13.5.0 Release 13)

ETSI TS 136321 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 13.3.0 Release 13)

ETSI TS 136331 V 13.3.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 13.3.0 Release 13)

ETSI TS 137104 V 13.3.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 13.3.0 Release 13)

ETSI TS 137141 V 11.15.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 11.15.0 Release 11)

ETSI TS 137141 V 12.12.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 12.12.0 Release 12)

ETSI TS 137141 V 13.4.0:2016-10

Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 13.4.0 Release 13)

### **33.070.99**

### **Ostale pokretne službe**

#### **Europska normizacija ETSI**

ETSI TS 124379 V 13.2.0:2016-10

LTE – Mission Critical Push To Talk (MCPTT) call control – Protocol specification (3GPP TS 24.379 version 13.2.0 Release 13)

ETSI TS 124380 V 13.2.0:2016-10

LTE – Mission Critical Push To Talk (MCPTT) media plane control – Protocol specification (3GPP TS 24.380 version 13.2.0 Release 13)

ETSI TS 124381 V 13.2.0:2016-10

LTE – Mission Critical Push To Talk (MCPTT) group management – Protocol specification (3GPP TS 24.381 version 13.2.0 Release 13)

ETSI TS 124383 V 13.2.0:2016-10

LTE – Mission Critical Push To Talk (MCPTT) Management Object (MO) (3GPP TS 24.383 version 13.2.0 Release 13)

ETSI TR 124980 V 13.2.0:2016-10

LTE – Minimum requirements for support of Mission Critical Push To Talk (MCPTT) service over the Gm reference point (3GPP TR 24.980 version 13.2.0 Release 13)

ETSI TS 129128 V 13.2.0:2016-10

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 13.2.0 Release 13)

ETSI TS 136133 V 9.23.0:2016-10

LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 9.23.0 Release 9)

ETSI TS 137105 V 13.2.0:2016-10

Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) transmission and reception (3GPP TS 37.105 version 13.2.0 Release 13)

### **33.100.01                    Elektromagnetska kompatibilnost općenito**

#### **Europska normizacija CENELEC**

EN 50592:2016-10

Railway applications – Testing of rolling stock for electromagnetic compatibility with axle counters

EN 61000-1-2:2016-09

Electromagnetic compatibility (EMC) – Part 1-2: General – Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena (IEC 61000-1-2:2016)

### **33.100.10                    Zračenje**

#### **Međunarodna normizacija IEC**

IEC 62153-4-16:2016-10

Metallic communication cable test methods – Part 4-16: Electromagnetic compatibility (EMC) – Extension of the frequency range to higher frequencies for transfer impedance and to lower frequencies for screening attenuation measurements using the triaxial set-up

### **33.100.20 Otpornost**

#### **Europska normizacija CENELEC**

EN 61000-4-9:2016-10

Electromagnetic compatibility (EMC) – Part 4-9: Testing and measurement techniques – Impulse magnetic field immunity test (IEC 61000-4-9:2016)

EN 62433-4:2016-10

EMC IC modelling – Part 4: Models of integrated circuits for RF immunity behavioural simulation – Conducted immunity modelling (ICIM-CI) (IEC 62433-4:2016)

#### **Međunarodna normizacija IEC**

IEC 61000-4-23:2016-10

Electromagnetic compatibility (EMC) – Part 4-23: Testing and measurement techniques – Test methods for protective devices for HEMP and other radiated disturbances

### **33.120.10 Koaksijalni kabeli. Valovodi**

#### **Europska normizacija CENELEC**

EN 50290-2-20:2016-10

Communication cables – Part 2-20: Common design rules and construction – General

#### **Međunarodna normizacija IEC**

IEC 60966-2-5:2016-10

Radio frequency and coaxial cable assemblies – Part 2-5: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 MHz to 1000 MHz, IEC 61169-2 connectors

IEC 60966-2-6:2016-10

Radio frequency and coaxial cable assemblies – Part 2-6: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 MHz to 3000 MHz, IEC 61169-24 connectors

IEC 62153-4-16:2016-10

Metallic communication cable test methods – Part 4-16: Electromagnetic compatibility (EMC) – Extension of the frequency range to higher frequencies for transfer impedance and to lower frequencies for screening attenuation measurements using the triaxial set-up

### **33.170 Televizijski i radijski prijenos**

#### **Europska normizacija CENELEC**

EN 62803:2016-10

Transmitting equipment for radiocommunication – Frequency response of optical-to-electric conversion device in high- frequency radio over fibre systems – Measurement method (IEC 62803:2016)

**33.200                    Daljinsko upravljanje. Daljinsko mjerjenje**

**Europska normizacija  
ETSI**

ETSI TR 103375 V 1.1.1:2016-10  
SmartM2M – IoT Standards landscape and future evolutions

ETSI TR 103376 V 1.1.1:2016-10  
SmartM2M – IoT LSP use cases and standards gaps

**35.020                    Informacijska tehnologija (IT) općenito**

**Međunarodna normizacija  
ISO**

ISO/IEC TR 20000-12:2016-10  
Information technology – Service management – Part 12: Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: CMMI-SVC

ISO/IEC 33071:2016-10  
Information technology – Process assessment – An integrated process capability assessment model for Enterprise processes

**35.030                    Sigurnost u informacijskoj tehnologiji**

**Međunarodna normizacija  
ISO**

ISO/IEC 10118-1:2016-10  
Information technology – Security techniques – Hash-functions – Part 1: General

ISO/IEC 11770-6:2016-10  
Information technology – Security techniques – Key management – Part 6: Key derivation

ISO/IEC 27034-6:2016-10  
Information technology – Security techniques – Application security – Part 6: Case studies

ISO/IEC 27035-1:2016-11  
Information technology – Security techniques – Information security incident management – Part 1: Principles of incident management

ISO/IEC 27035-2:2016-11  
Information technology – Security techniques – Information security incident management – Part 2: Guidelines to plan and prepare for incident response

**35.040.30                Kodiranje grafičkih i fotografskih informacija**

**Međunarodna normizacija  
ISO**

ISO/IEC 15444-1:2016-10  
Information technology – JPEG 2000 image coding system: Core coding system

ISO/IEC 18477-8:2016-10

Information technology – Scalable compression and coding of continuous-tone still images – Part 8: Lossless and near-lossless coding

ISO/IEC 18477-9:2016-10

Information technology – Scalable compression and coding of continuous-tone still images – Part 9: Alpha channel coding

ISO/IEC TR 19566-2:2016-10

Information technologies – JPEG Systems – Part 2: Transport mechanisms and packaging

#### **35.040.40**

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

##### **Međunarodna normizacija**

**ISO**

ISO/IEC 13818-1 Technical Corrigendum 1:2016-10

Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems; Technical Corrigendum 1

ISO/IEC 13818-1 AMD 1 Technical Corrigendum 2:2016-10

Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems – Amendment 1: Delivery of timeline for external data – Technical Corrigendum 2: Delivery of timeline for external data; Technical Corrigendum 1

ISO/IEC 13818-1 AMD 4:2016-10

Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems – Amendment 4: New profiles and levels for MPEG4 audio descriptor

ISO/IEC 13818-1 AMD 5:2016-10

Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems – Amendment 5: Carriage of MPEGH 3D audio over MPEG2 systems

ISO/IEC 13818-1 AMD 6:2016-10

Information technology – Generic coding of moving pictures and associated audio information – Part 1: Systems – Amendment 6: Carriage of Quality Metadata in MPEG-2 Systems

ISO/IEC 23009-1 AMD 3:2016-10

Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats – Amendment 3: Authentication, MPD linking, Callback Event, Period Continuity and other Extensions

#### **35.040.50**

#### **Tehnike automatskog prepoznavanja i preuzimanja podataka**

##### **Međunarodna normizacija**

**ISO**

ISO/IEC 30116:2016-10

Information technology – Automatic identification and data capture techniques – Optical Character Recognition (OCR) quality testing

## **35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji**

### **Međunarodna normizacija ISO**

ISO/IEC 29500-1:2016-11

Information technology – Document description and processing languages – Office Open XML File Formats – Part 1: Fundamentals and Markup Language Reference

ISO/IEC 29500-4:2016-11

Information technology – Document description and processing languages – Office Open XML File Formats – Part 4: Transitional Migration Features

## **35.080 Softver (programska podrška)**

### **Međunarodna normizacija ISO**

ISO/IEC 29110-3-3:2016-10

Systems and software engineering – Lifecycle profiles for Very Small Enterprises (VSEs) – Part 3-3: Certification requirements for conformity assessments of VSE profiles using process assessment and maturity models

ISO/IEC 29155-4:2016-10

Systems and software engineering – Information technology project performance benchmarking framework – Part 4: Guidance for data collection and maintenance

## **35.100.70 Sloj primjene**

### **Međunarodna normizacija ISO**

ISO/IEC 9594-8 Technical Corrigendum 2:2016-10

Information technology – Open Systems Interconnection – The Directory – Part 8: Public-key and attribute certificate frameworks; Technical Corrigendum 2

## **35.110 Umrežavanje**

### **Europska normizacija ETSI**

ETSI GS NFV-IFA 007 V 2.1.1 : 2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 011 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – VNF Packaging Specification

ETSI GS NFV-IFA 013 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 014 V 2.1.1:2016-10

Network Functions Virtualisation (NFV) – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-TST 002 V 1.1.1:2016-10

Network Functions Virtualisation (NFV) – Testing Methodology – Report on NFV Interoperability Testing Methodology

#### **Međunarodna normizacija**

**ISO**

ISO/IEC/IEEE 8802-1BA:2016-10

Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 1BA: Audio video bridging (AVB) systems

ISO/IEC/IEEE 8802-1BR:2016-10

Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 1BR: Virtual bridged local area networks – Bridge port extension

### **35.200 Sučelna i spojna oprema**

#### **Međunarodna normizacija**

**ISO**

ISO/IEC 18598:2016-09

Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications

#### **IEC**

IEC/TR 62541-1:2016-10

OPC unified architecture – Part 1: Overview and concepts

IEC/TR 62541-2:2016-10

OPC unified architecture – Part 2: Security Model

### **35.240.15 Identifikacijske kartice i pripadajuće naprave**

#### **Europska normizacija**

**ETSI**

ETSI TS 102695-1 V 12.1.0:2016-10

Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 1: Terminal features (Release 12)

#### **Međunarodna normizacija**

**ISO**

ISO/IEC 17839-3:2016-11

Information technology – Identification cards – Biometric System-on-Card – Part 3: Logical information interchange mechanism

ISO/IEC 18328-3:2016-10

Identification cards – ICC-managed devices – Part 3: Organization, security and commands for interchange

### **35.240.30                  Primjene IT-a u obavješćivanju, dokumentaciji i izdavaštvu**

#### **Međunarodna normizacija ISO**

ISO/IEC 29500-1:2016-11

Information technology – Document description and processing languages – Office Open XML File Formats – Part 1: Fundamentals and Markup Language Reference

ISO/IEC 29500-4:2016-11

Information technology – Document description and processing languages – Office Open XML File Formats – Part 4: Transitional Migration Features

### **35.240.50                  Primjene IT-a u industriji**

#### **Europska normizacija CEN**

##### **EN 61069-5:2016-09**

Industrial-process measurement, control and automation – Evaluation of system properties for the purpose of system assessment – Part 5: Assessment of system dependability (IEC 61069-5:2016)

#### **Međunarodna normizacija IEC**

IEC/TR 62541-1:2016-10

OPC unified architecture – Part 1: Overview and concepts

IEC/TR 62541-2:2016-10

OPC unified architecture – Part 2: Security Model

IEC 62859:2016-10

Nuclear power plants – Instrumentation and control systems – Requirements for coordinating safety and cybersecurity

IEC 62952-1:2016-10

Power sources for a wireless communication device – Part 1: General requirements of power modules

### **35.240.60                  Primjene IT-a u prijevozu i trgovini**

#### **Međunarodna normizacija ISO**

ISO 17488:2016-10

Road vehicles – Transport information and control systems – Detection-response task (DRT) for assessing attentional effects of cognitive load in driving

ISO 18682:2016-10

Intelligent transport systems – External hazard detection and notification systems – Basic requirements

ISO 19080:2016-10

Intelligent transport systems – Communications access for land mobiles (CALM) – CoAP facility

ISO/TR 19083-1:2016-10

Intelligent transport systems – Emergency evacuation and disaster response and recovery – Part 1: Framework and concept of operation

**IEC**

IEC 61375-2-3 Corrigendum 2:2016-10

Electronic railway equipment – Train communication network (TCN) – Part 2-3: TCN communication profile; Corrigendum 2

**35.240.80**

**Primjene IT-a u tehnologiji zaštite zdravlja**

**Europska normizacija**

**CEN**

EN ISO 11073-10418/AC:2016-10

Health informatics – Personal health device communication – Part 10418: Device specialization – International Normalized Ratio (INR) monitor – Technical Corrigendum 1 (ISO/IEEE 11073-10418:2014/Cor 1:2016)

**Međunarodna normizacija**

**IEC**

IEC 82304-1:2016-10

Health software – Part 1: General requirements for product safety

**37.100.99**

**Ostale norme koje se odnose na grafičku tehnologiju**

**Međunarodna normizacija**

**ISO**

ISO 18935:2016-10

Imaging materials – Colour images – Determination of water resistance of printed colour images

**39.040.10**

**Ručni i džepni satovi**

**Europska normizacija**

**CEN**

EN 60086-3:2016-09

Primary batteries – Part 3: Watch batteries (IEC 60086-3:2016)

**43.020**

**Cestovna vozila općenito**

**Međunarodna normizacija**

**ISO**

ISO 10326-1:2016-10

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements

#### **43.040.01 Sustavi u/na cestovnim vozilima općenito**

# Međunarodna normizacija ISO

ISO 4081:2016-10

## Rubber hoses and tubing for cooling systems for internal-combustion engines – Specification

43.040.15 Informatika vozila. Računalni sustavi u vozilu

## Međunarodna normizacija ISO

ISO 16845-1:2016-11

Road vehicles – Controller area network (CAN) conformance test plan – Part 1: Data link layer and physical signalling

ISO 17488:2016-10

## Road vehicles – Transport information and control systems – Detection-response task (DRT) for assessing attentional effects of cognitive load in driving

ISO 17987-6:2016-10

Road vehicles – Local Interconnect Network (LIN) – Part 6: Protocol conformance test specification

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

## Međunarodna normizacija ISO

ISO 19364:2016-10

Passenger cars – Vehicle dynamic simulation and validation – Steady-state circular driving behaviour

**43.120 Električna cestovna vozila**

## Međunarodna normizacija IEC

IEC 62840-2:2016-10

IEC 62803-2:2016-10  
Electric vehicle battery swap system – Part 2: Safety requirements

43.140 Motocikli i mopedi

## Međunarodna normizacija ISO

ISO 19689:2016-10

**ISO 15031-10:2010**  
Motorcycles and mopeds – Communication between vehicle and external equipment for diagnostics – Diagnostic connector and related electrical circuits, specification and use

**43.180 Oprema za dijagnostiku, održavanje i ispitivanje**

**Međunarodna normizacija  
ISO**

ISO 19689:2016-1065,90 EUR

Motorcycles and mopeds – Communication between vehicle and external equipment for diagnostics – Diagnostic connector and related electrical circuits, specification and use

**45.060.01 Željeznička tračnička vozila općenito**

**Europska normizacija  
CENELEC**

EN 50592:2016-10

Railway applications – Testing of rolling stock for electromagnetic compatibility with axle counters

EN 62625-1/AC:2016-10

Electronic railway equipment – On board driving data recording system – Part 1: System specification (IEC 62625-1:2013/COR1:2016)

**Međunarodna normizacija  
IEC**

IEC 62625-1 Corrigendum 1:2016-10

Electronic railway equipment – On board driving data recording system – Part 1: System specification; Corrigendum 1

**45.060.10 Vučna vozila**

**Europska normizacija  
CEN**

EN 15153-1+A1:2016-10

Railway applications – External visible and audible warning devices for trains – Part 1: Head, marker and tail lamps

**Međunarodna normizacija  
IEC**

IEC 62846:2016-10

Railway applications – Current collection systems – Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line

**47.020.01 Opće norme koje se odnose na brodogradnju i pomorske konstrukcije**

**Međunarodna normizacija  
ISO**

ISO 16707:2016-10

Ships and marine technology – Marine evacuation systems – Determination of capacity

47.020.70 Oprema za navigaciju i upravljanje

## Međunarodna normizacija IEC

IEC 62320-2:2016-10

## Maritime navigation and radiocommunication equipment and systems – Automatic identification system (AIS) – Part 2: AIS AtoN Stations – Operational and performance requirements, methods of testing and required test results

IEC 62940:2016-10

Maritime navigation and radiocommunication equipment and systems – Integrated communication system (ICS) – Operational and performance requirements, methods of testing and required test results

IEC/PAS 63062:2016-10

## Maritime navigation and radiocommunication equipment and systems – Removable external data source (REDS) – General requirements, methods of testing and required test results

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

## Međunarodna normizacija ISO

ISO 23748:2016-10

## Aerospace series – O-ring grooves – Dimensions

**49.100 Zemaljska služba i oprema za održavanje**

## Međunarodna normizacija ISO

ISO 23748:2016-10

## Aerospace series – O-ring grooves – Dimensions

**53.020.20**

## Međunarodna normizacija ISO

ISO 4306-3:2016-10

Cranes – Vocabulary – Part 3: Tower cranes

**53.040.20 Sastavni dijelovi za prijenosne trake**

# Europska normizacija CEN

EN ISO 9856:2016-10

EN ISO 3556:2016-10  
Conveyor belts – Determination of elastic and permanent elongation and calculation of elastic modulus (ISO 9856:2016)

**Međunarodna normizacija**  
**ISO**

ISO 9856:2016-10

Conveyor belts – Determination of elastic and permanent elongation and calculation of elastic modulus

ISO 15236-1:2016-10

Steel cord conveyor belts – Part 1: Design, dimensions and mechanical requirements for conveyor belts for general use

**53.060 Industrijski prijevozni sustavi**

**Međunarodna normizacija**  
**ISO**

ISO 18063-1:2016-11

Rough-terrain trucks – Visibility – Test methods and their verification – Part 1: Variable-reach trucks

**53.100 Strojevi za zemljane radove**

**Međunarodna normizacija**  
**ISO**

ISO 10326-1:2016-10

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements

ISO 14990-1:2016-11

Earth-moving machinery – Electrical safety of machines utilizing electric drives and related components and systems – Part 1: General requirements

ISO 14990-2:2016-11

Earth-moving machinery – Electrical safety of machines utilizing electric drives and related components and systems – Part 2: Particular requirements for externally-powered machines

ISO 14990-3:2016-11

Earth-moving machinery – Electrical safety of machines utilizing electric drives and related components and systems – Part 3: Particular requirements for self-powered machines

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

**Međunarodna normizacija**  
**ISO**

ISO 21067-1:2016-10

Packaging – Vocabulary – Part 1: General terms

**59.080.01 Tekstili općenito**

**Međunarodna normizacija**  
**ISO**

ISO 18264:2016-10

Textile slings – Lifting slings for general purpose lifting operations made from fibre ropes – High modulus polyethylene (HMPE)

**59.080.40 Naslojeni plošni tekstil**

**Međunarodna normizacija**  
**ISO**

ISO 4674-1:2016-10

Rubber- or plastics-coated fabrics – Determination of tear resistance – Part 1: Constant rate of tear methods

**65.060.10 Poljoprivredni traktori i priključna vozila**

**Međunarodna normizacija**  
**ISO**

ISO 10326-1:2016-10

Mechanical vibration – Laboratory method for evaluating vehicle seat vibration – Part 1: Basic requirements

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

**Međunarodna normizacija**  
**ISO**

ISO 1401:2016-11

Rubber hoses for agricultural spraying

**65.060.40 Oprema za njegu biljaka**

**Međunarodna normizacija**  
**ISO**

ISO 1401:2016-11

Rubber hoses for agricultural spraying

**65.060.70 Oprema za vrtlarstvo**

**Europska normizacija**  
**CENELEC**

EN 62841-2-8:2016-10

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-8: Particular requirements for hand-held shears and nibblers (IEC 62841-2-8:2016, modified)

**Međunarodna normizacija**  
**ISO**

ISO 5395-2 AMD 1:2016-11

Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers – Amendment 1: OPC, cutting means, pressurized hoses

**65.060.80                    Oprema za šumarstvo**

**Europska normizacija  
CENELEC**

EN 62841-2-8:2016-10

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-8: Particular requirements for hand-held shears and nibblers (IEC 62841-2-8:2016, modified)

**65.080                    Gnojiva**

**Europska normizacija  
CEN**

EN 12945+A1:2016-10

Liming materials – Determination of neutralizing value – Titrimetric methods

**71.040.99                    Ostale norme koje se odnose na analitičku kemiju**

**Međunarodna normizacija  
ISO**

ISO 22489:2016-10

Microbeam analysis – Electron probe microanalysis – Quantitative point analysis for bulk specimens using wavelength dispersive X-ray spectroscopy

**71.100.60                    Eterična ulja**

**Međunarodna normizacija  
ISO**

ISO 3848:2016-11

Essential oil of citronella, Java type

**75.060                    Prirodni plin**

**Europska normizacija  
CEN**

EN ISO 6978-2/AC:2016-10

Natural gas – Determination of mercury – Part 2: Sampling of mercury by amalgamation on gold/platinum alloy – Technical Corrigendum 2 (ISO 6978-2:2003/Cor 2:2006)

**75.180.01                    Oprema za naftnu industriju i industriju prirodnoga plina općenito**

**Europska normizacija  
CEN**

EN ISO 14224:2016-10

Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and maintenance data for equipment (ISO 14224:2016)

**75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom**

**Europska normizacija**  
**CEN**

EN ISO 14224:2016-10

Petroleum, petrochemical and natural gas industries – Collection and exchange of reliability and maintenance data for equipment (ISO 14224:2016)

**Međunarodna normizacija**  
**ISO**

ISO 16380 AMD 1:2016-11

Road vehicles – Blended fuels refuelling connector; Amendment 1

ISO 16440:2016-10

Petroleum and natural gas industries – Pipeline transportation systems – Design, construction and maintenance of steel cased pipelines

**77.040.10 Mehaničko ispitivanje metala**

**Međunarodna normizacija**  
**ISO**

ISO 148-1:2016-10

Metallic materials – Charpy pendulum impact test – Part 1: Test method

ISO 148-2:2016-10

Metallic materials – Charpy pendulum impact test – Part 2: Verification of testing machines

ISO 148-3:2016-10

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 3928:2016-11

Sintered metal materials, excluding hardmetals – Fatigue test pieces

ISO 14577-4:2016-11

Metallic materials – Instrumented indentation test for hardness and materials parameters – Part 4: Test method for metallic and non-metallic coatings

**77.080.01 Metali na bazi željeza općenito**

**Međunarodna normizacija**  
**ISO**

ISO/TR 21074:2016-11

Application of ISO 5725 for the determination of repeatability and reproducibility of precision tests performed in standardization work for chemical analysis of steel

**77.080.20**                   **Čelici**

**Europska normizacija**  
**CEN**

EN 10027-1:2016-10  
Designation systems for steels – Part 1: Steel names

**77.140.20**                   **Nehrđajući čelici**

**Međunarodna normizacija**  
**ISO**

ISO 7153-1:2016-10  
Surgical instruments – Materials – Part 1: Metals

**77.140.75**                   **Čelične cijevi i čelične cijevi za posebnu namjenu**

**Međunarodna normizacija**  
**ISO**

ISO 16440:2016-10  
Petroleum and natural gas industries – Pipeline transportation systems – Design, construction and maintenance of steel cased pipelines

**77.160**                   **Metalurgija praha**

**Međunarodna normizacija**  
**ISO**

ISO 3928:2016-11  
Sintered metal materials, excluding hardmetals – Fatigue test pieces

**79.060.20**                   **Ploče vlaknatice i ploče iverice**

**Međunarodna normizacija**  
**ISO**

ISO 17064:2016-10  
Wood-based panels – Fibreboard, particleboard and oriented strand board (OSB) – Vocabulary

**83.040.10**                   **Lateks i sirova guma**

**Međunarodna normizacija**  
**ISO**

ISO 11344:2016-10  
Rubber, raw synthetic – Determination of the molecular-mass distribution of solution polymers by gel permeation chromatography

**83.040.20                    Sastojci gume**

**Međunarodna normizacija**  
**ISO**

ISO 1304:2016-10  
Rubber compounding ingredients – Carbon black – Determination of iodine adsorption number

**83.040.30                    Pomoći materijali i aditivi za plastiku**

**Međunarodna normizacija**  
**ISO**

ISO 1043-3:2016-10  
Plastics – Symbols and abbreviated terms – Part 3: Plasticizers

**83.060                        Guma**

**Međunarodna normizacija**  
**ISO**

ISO 1434:2016-11  
Natural rubber in bales – Amount of bale coating – Determination

ISO 23337:2016-11  
Rubber, vulcanized or thermoplastic – Determination of abrasion resistance using the Improved Lambourn test machine

ISO 23529:2016-11  
Rubber – General procedures for preparing and conditioning test pieces for physical test methods

**83.080.01                    Plastika općenito**

**Europska normizacija**  
**CEN**

EN ISO 11357-1:2016-10  
Plastics – Differential scanning calorimetry (DSC) – Part 1: General principles (ISO 11357-1:2016)

EN ISO 11469:2016-10  
Plastics – Generic identification and marking of plastics products (ISO 11469:2016)

**Međunarodna normizacija**  
**ISO**

ISO 1043-3:2016-10  
Plastics – Symbols and abbreviated terms – Part 3: Plasticizers

ISO 15512:2016-10  
Plastics – Determination of water content

**83.140.40 Crijeva****Međunarodna normizacija  
ISO**

ISO 1401:2016-11  
Rubber hoses for agricultural spraying

ISO 4081:2016-10  
Rubber hoses and tubing for cooling systems for internal-combustion engines – Specification

**83.180 Adhezivi****Međunarodna normizacija  
ISO**

ISO 14448:2016-10  
Low modulus adhesives for exterior tile finishing

**91.010.01 Građevinska industrija općenito****Europska normizacija  
CEN**

EN ISO 12006-3:2016-10  
Building construction – Organization of information about construction works – Part 3: Framework for object-oriented information (ISO 12006-3:2007)

EN ISO 29481-2:2016-10  
Building information models – Information delivery manual – Part 2: Interaction framework (ISO 29481-2:2012)

**91.010.99 Ostali aspekti****Europska normizacija  
CEN**

CEN/TR 17005:2016-10  
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

**91.040.01 Građevine općenito****Međunarodna normizacija  
ISO**

ISO 19208:2016-11  
Framework for specifying performance in buildings

**91.100.23                    Keramičke pločice**

**Međunarodna normizacija  
ISO**

ISO 14448:2016-10  
Low modulus adhesives for exterior tile finishing

**91.100.60                    Materijali za toplinsku i zvučnu izolaciju**

**Europska normizacija  
CEN**

EN 16382:2016-10  
Thermal insulation products for building applications – Determination of the pull-through resistance of plate anchors through thermal insulation products

EN 16383:2016-10  
Thermal insulation products for building applications – Determination of the hygrothermal behaviour of external thermal insulation composite systems with renders (ETICS)

**91.140.10                    Sustavi centralnoga grijanja**

**Europska normizacija  
CEN**

CWA 16975/AC:2016-10  
Eco-efficient Substations for District Heating

**91.140.65                    Oprema za grijanje vode**

**Europska normizacija  
CEN**

EN 13203-4:2016-10  
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

**91.160.10                    Unutrašnja rasvjeta**

**Europska normizacija  
CENELEC**

EN 60598-2-22/AC:2016-09  
Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (IEC 60598-2-22:2014/COR2:2016)

**93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi**

**Međunarodna normizacija  
ISO**

ISO 17892-4:2016-11

Geotechnical investigation and testing – Laboratory testing of soil – Part 4: Determination of particle size distribution

ISO 18674-2:2016-10

Geotechnical investigation and testing – Geotechnical monitoring by field instrumentation – Part 2: Measurement of displacements along a line: Extensometers

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

**Međunarodna normizacija  
IEC**

IEC 60704-2-13:2016-10

Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-13: Particular requirements for range hoods and other cooking fume extractors

**97.170 Oprema za njegu tijela**

**Međunarodna normizacija  
ISO**

ISO 16409:2016-10

Dentistry – Oral care products – Manual interdental brushes

**97.180 Razna kućanska i gospodarska oprema**

**Međunarodna normizacija  
ISO**

ISO 12756:2016-11

Drawing and writing instruments – Ball point pens and roller ball pens – Vocabulary

ISO 14145-1:2016-10

Roller ball pens and refills – Part 1: General use

ISO 27668-1:2016-10

Gel ink ball pens and refills – Part 1: General use

**97.200.30 Oprema za kampiranje i kampove**

**Europska normizacija  
CEN**

EN ISO 23537-1:2016-10

Requirements for sleeping bags – Part 1: Thermal and dimensional requirements (ISO 23537-1:2016)

EN ISO 23537-2:2016-10

Requirements for sleeping bags – Part 2: Fabric and material properties (ISO 23537-2:2016)

**97.220.30**

**Oprema za sportske dvorane**

**Međunarodna normizacija  
ISO**

ISO 20957-9:2016-10

Stationary training equipment – Part 9: Elliptical trainers, additional specific safety requirements and test methods