

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

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Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrta 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:



**Hrvatski zavod za norme**  
Croatian Standards Institute

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# Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 80/2013) hrvatske norme priprema, izdaje i objavljuje Hrvatski zavod za norme, na prijedlog tehničkih odbora.

Hrvatske norme mogu nastati na ova četiri načina:

- prihvaćanjem stranih (međunarodnih/europskih/nacionalnih) norma uz prevođenje na hrvatski jezik (pp)
- prihvaćanjem stranih norma u izvorniku s hrvatskim ovitkom (po)
- prihvaćanjem stranih norma u izvorniku objavom obavijesti o prihvaćanju (pr)
- izradbom izvorne hrvatske norme (izv).

Oznaka načina prihvaćanja navedena je uz referencijsku oznaku hrvatske norme. Hrvatske su norme zainteresiranim na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

## HZN/TO 8, Brodogradnja

HRN ISO 484-1:2016 en pr  
Brodogradnja – Brodski vijci – Tolerancije izrade – 1. dio: Vijci promjera većeg od 2,50 m (ISO 484-1:2015)  
Shipbuilding – Ship screw propellers – Manufacturing tolerances – Part 1: Propellers of diameter greater than 2,50 m (ISO 484-1:2015)

HRN EN ISO 9094:2016 en pr  
Mala plovila – Protupožarna zaštita (ISO 9094:2015; EN ISO 9094:2015)  
Small craft – Fire protection (ISO 9094:2015; EN ISO 9094:2015)

HRN ISO 15371:2016 en pr  
Brodovi i pomorska tehnologija – Protupožarni sustavi za zaštitu opreme za kuhanje u brodskoj kuhinji (ISO 15371:2015)  
Ships and marine technology – Fire-extinguishing systems for protection of galley cooking equipment (ISO 15371:2015)

HRN EN ISO 21487:2013/A2:2016 en pr  
Mala plovila – Trajno ugrađeni spremnici za benzinsko i dizelsko gorivo (ISO 21487:2012/Amd 2:2015; EN ISO 21487:2012/A2:2015)  
Small craft – Permanently installed petrol and diesel fuel tanks (ISO 21487:2012/Amd 2:2015; EN ISO 21487:2012/A2:2015)

## HZN/TO 21, Protupožarna i vatrogasna oprema

HRN ISO 7076-1:2016 en pr  
Zaštita od požara – Sustavi za gašenje požara pjenom – 1. dio: Oprema za doziranje pjenila (ISO 7076-1:2012)  
Fire protection – Foam fire extinguishing systems – Part 1: Foam proportioning equipment (ISO 7076-1:2012)

HRN ISO 7076-2:2016 en pr  
Zaštita od požara – Sustavi za gašenje požara pjenom – 2. dio: Oprema za pjenu niske ekspanzije (ISO 7076-2:2012)  
Fire protection – Foam fire extinguishing systems – Part 2: Low expansion foam equipment (ISO 7076-2:2012)

HRN ISO 7076-5:2016 en pr  
Zaštita od požara – Sustavi za gašenje požara pjenom – 5. dio: Stabilna oprema za komprimiranu zračnu pjenu (ISO 7076-5:2014)  
Fire protection – Foam fire extinguishing systems – Part 5: Fixed compressed air foam equipment (ISO 7076-5:2014)

HRN EN 12845:2015/Ispr.1:2016 en pr  
Stabilni protupožarni sustavi – Sustavi automatskih sprinklera – Projektiiranje; ugradnja i održavanje (EN 12845:2015/AC:2016)  
Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance (EN 12845:2015/AČ:2016)

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

HRN EN 15503:2016 en pr  
Oprema za vrtove i parkove – Vrtni ventilatori, usisači i ventilatori/usisači – Sigurnost (EN 15503:2009+A2:2015)  
Garden equipment – Garden blowers, vacuums and blowers/vacuums – Safety (EN 15503:2009+A2:2015)

HRN EN ISO 17989-1:2016 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Održivost – 1. dio: Načela (ISO 17989-1:2015; EN ISO 17989-1:2015)  
Tractors and machinery for agriculture and forestry – Sustainability – Part 1: Principles (ISO 17989-1:2015; EN ISO 17989-1:2015)

## HZN/TO 28, Naftni proizvodi i maziva

HRN EN ISO 4263-3:2016 en pr  
Nafta i srodnici proizvodi – Određivanje starenja inhibiranih ulja i tekućina uporabom TOST testa – 3. dio: Bezvodni postupak za sintetičke hidrauličke tekućine (ISO 4263-3:2015; EN ISO 4263-3:2015)  
Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids using the TOST test – Part 3: Anhydrous procedure for synthetic hydraulic fluids (ISO 4263-3:2015; EN ISO 4263-3:2015)

HRN EN 16761-1:2016 en pr  
Goriva za motorna vozila – Određivanje metanola u etanolском gorivu (E85) plinskom kromatografijom – 1. dio: Metoda s uporabom jedne kolone (EN 16761-1:2015)  
Automotive fuels – Determination of methanol in automotive ethanol (E85) fuel by gas chromatography – Part 1: Method using single column technique (EN 16761-1:2015)

HRN EN 16761-2:2016 en pr  
Goriva za motorna vozila – Određivanje metanola u etanolском gorivu (E85) plinskom kromatografijom – 2. dio: Metoda s uporabom srednjeg reza (EN 16761-2:2015)  
Automotive fuels – Determination of methanol in automotive ethanol (E85) fuel by gas chromatography – Part 2: Method using heart cut technique (EN 16761-2:2015)

## HZN/TO 34/PO 4, Poljoprivredni i prehrambeni proizvodi; Žito i proizvodi od žita

HRN EN ISO 5223:2016 en pr  
Ispitivanje žitarica prosijavanjem (ISO 5223:1995, uključujući Amandman 1:1999; EN ISO 5223:2015)  
Test sieves for cereals (ISO 5223:1995, including Amendment 1:1999; EN ISO 5223:2015)

HRN EN ISO 7973:2016 en pr  
Žitarice i proizvodi mljevenja žitarica – Određivanje viskoznosti brašna – Metoda uporabe amilografa (ISO 7973:1992; EN ISO 7973:2015)  
Cereals and milled cereal products – Determination of the viscosity of flour – Method using an amylograph (ISO 7973:1992; EN ISO 7973:2015)

## HZN/TO 35, Boje i lakovi

HRN EN ISO 4630:2016 en pr  
Čiste kapljevine – Procjena boje pomoću Gardnerove ljestvice boja (ISO 4630:2015; EN ISO 4630:2015)  
Clear liquids – Estimation of colour by the Gardner colour scale (ISO 4630:2015; EN ISO 4630:2015)

HRN EN ISO 6271:2016 en pr  
Čiste kapljevine – Procjena boje pomoću platina-kobalt ljestvice boja (ISO 6271:2015; EN ISO 6271:2015)  
Clear liquids – Estimation of colour by the platinum-cobalt colour scale (ISO 6271:2015; EN ISO 6271:2015)

## HZN/TO 37, Terminologija

HRN ISO 10241-1:2016 en pr  
Terminološke natuknice u normama – 1. dio: Opći zahtjevi i primjeri prikaza (ISO 10241-1:2011)  
Terminological entries in standards – Part 1: General requirements and examples of presentation (ISO 10241-1:2011)

HRN ISO 10241-2:2016 en pr  
Terminološke natuknice u normama – 2. dio: Usvajanje normiranih terminoloških natuknica (ISO 10241-2:2012)  
Terminological entries in standards – Part 2: Adoption of standardized terminological entries (ISO 10241-2:2012)

HRN ISO 24156-1:2016 en pr

Grafičke oznake za organiziranje pojmove u terminološkom radu i njihov odnos s UML-om – 1. dio: Smjernice za upotrebu oznaka UML-a u terminološkom radu (ISO 24156-1:2014)  
Graphic notations for concept modelling in terminology work and its relationship with UML – Part 1: Guidelines for using UML notation in terminology work (ISO 24156-1:2014)

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

HRN EN ISO 16283-2:2016 en pr  
Akustika – Terensko mjerjenje zvučne izolacije zgrada i građevnih dijelova zgrade – 2. dio: Udarna zvučna izolacija (ISO 16283-2:2015; EN ISO 16283-2:2015)  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 2: Impact sound insulation (ISO 16283-2:2015; EN ISO 16283-2:2015)

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

HRN EN ISO 636:2016 en pr  
Dodatni i potrošni materijali za zavarivanje – Šipke, žice i depoziti za TIG zavarivanje nelegiranih i sitnozrnatih čelika – Razredba (ISO 636:2015; EN ISO 636:2015)  
Welding consumables – Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels – Classification (ISO 636:2015; EN ISO 636:2015)

HRN EN ISO 1071:2016 en pr  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode, žice, šipke i žice punjene praškom za elektrolučno zavarivanje taljenjem željeznoga lijeva – Razredba (ISO 1071:2015; EN ISO 1071:2015)  
Welding consumables – Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron – Classification (ISO 1071:2015; EN ISO 1071:2015)

HRN EN ISO 17632:2016 en pr  
Dodatni i potrošni materijali za zavarivanje – Žice punjene praškom za elektrolučno zavarivanje sa zaštitnim i bez zaštitnog plina za nelegirane i sitnozrnate čelike – Razredba (ISO 17632:2015; EN ISO 17632:2015)  
Welding consumables – Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of non-alloy and fine grain steels – Classification (ISO 17632:2015; EN ISO 17632:2015)

HRN EN ISO 18273:2016 en pr  
Dodatni i potrošni materijali za zavarivanje – Žičane elektrode, žice i šipke za zavarivanje aluminija i aluminijevih legura – Razredba (ISO 18273:2015; EN ISO 18273:2015)  
Welding consumables – Wire electrodes, wires and rods for welding of aluminium and aluminium alloys – Classification (ISO 18273:2015; EN ISO 18273:2015)

## **HZN/TO 47, Kemija**

HRN EN ISO 384:2016 en pr  
Laboratorijsko stakleno i plastično posuđe – Načela oblikovanja i konstrukcije volumetrijskog instrumenata (ISO 384:2015; EN ISO 384:2015)  
Laboratory glass and plastics ware – Principles of design and construction of volumetric instruments (ISO 384:2015; EN ISO 384:2015)

HRN EN ISO 3819:2016 en pr  
Laboratorijsko stakleno posuđe – Čaše (ISO 3819:2015; EN ISO 3819:2015)  
Laboratory glassware – Beakers (ISO 3819:2015; EN ISO 3819:2015)

HRN EN ISO 4797:2016 en pr  
Laboratorijsko stakleno posuđe – Vatrostalne tikvice s koničnim brušenim grlom (ISO 4797:2015; EN ISO 4797:2015)  
Laboratory glassware – Boiling flasks with conical ground joints (ISO 4797:2015; EN ISO 4797:2015)

## **HZN/TO 69, Primjena statističkih metoda**

HRN ISO 2859-2:2016 en pr  
Postupci uzorkovanja pri pregledima prema obilježjima – 2. dio: Planovi uzorkovanja razvrstani u odnosu na ograničenu kvalitetu (LQ) za pregledavanje izdvajene partije (ISO 2859-2:1985)  
Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection (ISO 2859-2:1985)

HRN ISO 2859-10:2016 en pr  
Postupci uzorkovanja pri pregledima prema obilježjima – 10. dio: Uvod u niz norma ISO 2859 za uzorkovanje pri pregledima prema obilježjima (ISO 2859-10:2006)  
Sampling procedures for inspection by attributes – Part 10: Introduction to the ISO 2859 series of standards for sampling for inspection by attributes (ISO 2859-10:2006)

HRN ISO 3534-1:2016 en,fr pr

Statistika – Terminološki rječnik i simboli – 1. dio: Opći statistički nazivi i nazivi koji se upotrebljavaju u vjerojatnosti (ISO 3534-1:2006)  
Statistics – Vocabulary and symbols – Part 1: General statistical terms and terms used in probability (ISO 3534-1:2006)

HRN ISO 3534-2:2016 en,fr pr

Statistika – Terminološki rječnik i simboli – 2. dio: Primjenjena statistika (ISO 3534-2:2006)  
Statistics – Vocabulary and symbols – Part 2: Applied statistics (ISO 3534-2:2006)

HRN ISO 3534-3:2016 en,fr pr

Statistika – Terminološki rječnik i simboli – 3. dio: Oblikovanje eksperimenta (ISO 3534-3:2013)  
Statistics – Vocabulary and symbols – Part 3: Design of experiments (ISO 3534-3:2013)

HRN ISO 3534-4:2016 en pr

Statistika – Terminološki rječnik i simboli – 4. dio: Uzorkovanje u anketama (ISO 3534-4:2014)  
Statistics – Vocabulary and symbols – Part 4: Survey sampling (ISO 3534-4:2014)

HRN ISO 3951-1:2016 en pr

Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljuvu razinu kvalitete („AQL“) za pregled pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“ (ISO 3951-1:2013)  
Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL (ISO 3951-1:2013)

HRN ISO 3951-2:2016 en pr

Postupci uzorkovanja pri pregledima prema varijablama – 2. dio: Opće specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljuvu razinu kvalitete („AQL“) za pregled pojedinačnih partija za neovisne značajke kvalitete (ISO 3951-2:2013)  
Sampling procedures for inspection by variables – Part 2: General specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection of independent quality characteristics (ISO 3951-2:2013)

HRN ISO 3951-3:2016 en pr

Postupci uzorkovanja pri pregledima prema varijablama – 3. dio: Dvostrukе sheme uzorkovanja razvrstanih u odnosu na prihvatljuvu razinu kvalitete („AQL“) za pregled pojedinačnih partija (ISO 3951-3:2007)  
Sampling procedures for inspection by variables – Part 3: Double sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection (ISO 3951-3:2007)

HRN ISO 3951-4:2016 en pr

Postupci uzorkovanja pri pregledima prema varijablama – 4. dio: Postupci za procjenjivanje određenih razina kvalitete (ISO 3951-4:2011)  
Sampling procedures for inspection by variables – Part 4: Procedures for assessment of declared quality levels (ISO 3951-4:2011)

HRN ISO 7870-1:2016 en pr

Kontrolni dijagrami – 1. dio: Opće smjernice (ISO 7870-1:2014)  
Control charts – Part 1: General guidelines (ISO 7870-1:2014)

HRN ISO 7870-2:2016 en pr

Kontrolni dijagrami – 2. dio: Kontrolni dijagrami prema Shewhartu (ISO 7870-2:2013)  
Control charts – Part 2: Shewhart control charts (ISO 7870-2:2013)

HRN ISO 16269-6:2016 en pr

Statističko tumačenje podataka – 6. dio: Određivanje statističkih intervala dopuštenog odstupanja (ISO 16269-6:2014)  
Statistical interpretation of data – Part 6: Determination of statistical tolerance intervals (ISO 16269-6:2014)

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

HRN EN 16754:2016 en pr

strojevi za obrtnički proizvedeni sladoled (Artisan Gelato) i ostale vrste sladoleda – Radne značajke i potrošnja energije (EN 16754:2016)  
Artisan Gelato and ice cream machinery – Performance characteristics and energy consumption (EN 16754:2016)



HRN EN 16764:2016 en pr  
Strojevi za mekane vrste sladoleda – Značajke i procjena potrošnje energije (EN 16764:2016)  
Soft ice cream machines – Performance and evaluation of energy consumption (EN 16764:2016)

#### HZN/TO 89, Furniri i drvne ploče

HRN EN ISO 12460-5:2016 en pr  
Ploče na osnovi drva – Određivanje otpuštanja formaldehida – 5. dio: Metoda izdvajanja (nazvana perforacijska metoda) (ISO 12460-5:2015; EN ISO 12460-5:2015)  
Wood-based panels – Determination of formaldehyde release – Part 5: Extraction method (called the perforator method) (ISO 12460-5:2015; EN ISO 12460-5:2015)

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

HRN ISO 5805:2016 en,fr pr  
Mehaničke vibracije i udari – Izloženost ljudi – Terminološki rječnik (ISO 5805:1997)  
Mechanical vibration and shock – Human exposure – Vocabulary (ISO 5805:1997)

HRN EN ISO 28927-8:2010/A1:2016 en pr  
Ručni prijenosni strojni alati – Ispitne metode za procjenu emisije vibracija – 8. dio: Pile, strojevi za poliranje i struganje s izmjeničnim djelovanjem i male pile s vibracijskim ili rotacijskim djelovanjem – Amandman 1: strojevi za poliranje, izmjenjene snage napajanja (ISO 28927-8:2009/Amd 1:2015; EN ISO 28927-8:2009/A1:2015)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 8: Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action – Amendment 1: Polishing machines, modified feed forces (ISO 28927-8:2009/Amd 1:2015; EN ISO 28927-8:2009/A1:2015)

#### HZN/TO 134, Gnojiva i poboljšivači tla

HRN EN 16319:2016 en pr  
Gnojiva i tvari za kalcifikaciju – Određivanje kadmija, kroma, olova i nikla upotrebom atomske emisijske spektrometrije s induktivno spregnutom plazmom (ICP-AES) nakon otapanja u zlatotopki (EN 16319:2013+A1:2015)  
Fertilizers and liming materials – Determination of cadmium, chromium, lead and nickel by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution (EN 16319:2013+A1:2015)

HRN EN 16847:2016 en pr  
Gnojiva – Određivanje kompleksirajućih agensa u gnojivima – Identifikacija heptaglukonske kiseline kromatografijom (EN 16847:2016)  
Fertilizers – Determination of complexing agents in fertilizers – Identification of heptagluconic acid by chromatography (EN 16847:2016)

#### HZN/TO 135, Nerazorna ispitivanja

HRN EN ISO 18563-3:2016 en pr  
Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 3. dio: Kombinirani sustavi (ISO 18563-3:2015; EN ISO 18563-3:2015)  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 3: Combined systems (ISO 18563-3:2015; EN ISO 18563-3:2015)

#### HZN/TO 136, Namještaj

HRN EN 1729-1:2016 en pr  
Namještaj – Stolice i stolovi za obrazovne ustanove – 1. dio: Funkcionalne dimenzije (EN 1729-1:2015)  
Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions (EN 1729-1:2015)

HRN EN 1729-2:2016 en pr  
Namještaj – Stolice i stolovi za obrazovne ustanove – 2. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1729-2:2012+A1:2015)  
Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods (EN 1729-2:2012+A1:2015)

HRN EN 12520:2016 en pr  
Namještaj – Čvrstoča, trajnost i sigurnost – Zahtjevi za namještaj za sjedenje za kućnu uporabu (EN 12520:2015)  
Furniture – Strength, durability and safety – Requirements for domestic seating (EN 12520:2015)

HRN EN 12521:2016 en pr  
Namještaj – Čvrstoča, trajnost i sigurnost – Zahtjevi za stolove za kućnu uporabu (EN 12521:2015)  
Furniture – Strength, durability and safety – Requirements for domestic tables (EN 12521:2015)

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

HRN CEN/TS 1852-2:2016 en pr  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1852-2:2015)  
Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 2: Guidance for the assessment of conformity (CEN/TS 1852-2:2015)

#### HZN/TO 146, Kvaliteta zraka

HRN ISO 8760:1997/lspri.1:2016 en pr  
Radna atmosfera – Određivanje masene koncentracije ugljikova monoksida – Metoda uporabe detektorskih cjevčica za kratkotrajno uzorkovanje s izravnim očitavanjem (ISO 8760:1990/Cor 1:2009)  
Work-place air – Determination of mass concentration of carbon monoxide – Method using detector tubes for short term sampling with direct indication (ISO 8760:1990/Cor 1:2009)

HRN ISO 8761:1997/lspri.1:2016 en pr  
Radna atmosfera – Određivanje masene koncentracije dušikova dioksida – Metoda uporabe detektorskih cjevčica za kratkotrajno uzorkovanje s izravnim očitavanjem (ISO 8761:1989/Cor 1:2009)  
Work-place air – Determination of mass concentration of nitrogen dioxide – Method using detector tubes for short term sampling with direct indication (ISO 8761:1989/Cor 1:2009)

#### HZN/TO 163, Toplinska izolacija

HRN EN ISO 6781-3:2016 en pr  
Značajke zgrada – Otkrivanje nepravilnosti povezanih s toplinom, zrakom i vlagom u zgradama pomoću infracrvenih metoda – 3. dio: O sposobljenost operatera opreme, analitičara podataka i sastavljača izvješća (ISO 6781-3:2015; EN ISO 6781-3:2015)  
Performance of buildings – Detection of heat, air and moisture irregularities in buildings by infrared methods – Part 3: Qualifications of equipment operators, data analysts and report writers (ISO 6781-3:2015; EN ISO 6781-3:2015)

HRN EN 14303:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od mineralne vune (MW) – Specifikacija (EN 14303:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made mineral wool (MW) products – Specification (EN 14303:2015)

HRN EN 14304:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od savitljive elastomerne pjene (FEF) – Specifikacija (EN 14304:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made flexible elastomeric foam (FEF) products – Specification (EN 14304:2015)

HRN EN 14305:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od čelijastog (pjenastog) stakla (CG) – Specifikacija (EN 14305:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made cellular glass (CG) products – Specification (EN 14305:2015)

HRN EN 14306:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od kalcijevog silikata (CS) – Specifikacija (EN 14306:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made calcium silicate (CS) products – Specification (EN 14306:2015)

HRN EN 14307:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekstrudirane polistirenske pjene (XPS) – Specifikacija (EN 14307:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made extruded polystyrene foam (XPS) products – Specification (EN 14307:2015)

HRN EN 14309:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekspandiranog polistirena (EPS) – Specifikacija (EN 14309:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made products of expanded polystyrene (EPS) – Specification (EN 14309:2015)

HRN EN 14313:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od polietilenske pjene (PEF) – Specifikacija (EN 14313:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made polyethylene foam (PEF) products – Specification (EN 14313:2015)

HRN EN 14314:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od fenolne pjene (PF) – Specifikacija (EN 14314:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF) products – Specification (EN 14314:2015)

HRN EN 15501:2016 en pr  
Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvornički izrađeni proizvodi od ekspandiranog perlite (EP) i ljuškastog vermiculita (EV) – Specifikacija (EN 15501:2015)  
Thermal insulation products for building equipment and industrial installations – Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products – Specification (EN 15501:2015)

HRN EN 16724:2016 en pr  
Toplinsko-izolacijski proizvodi za primjenu u zgradarstvu – Upute za montažu i učvršćivanje za ispitivanje reakcije na požar povezanih sustava za vanjsku toplinsku izolaciju (ETICS) (EN 16724:2015)  
Thermal insulation products for building applications – Instructions for mounting and fixing for determination of the reaction to fire testing of external thermal Insulation composite systems (ETICS) (EN 16724:2015)

## HZN/TO 172, Optika i optički instrumenti

HRN EN ISO 11810:2016 en pr  
Laseri i pridružena oprema – Metode ispitivanja i razredba otpornosti kirurških zastora i/ili zaštitnih pokrivala za pacijente na lasersko zračenje – Primarno paljenje, prodiranje, širenje plamena i sekundarno paljenje (ISO 11810:2015; EN ISO 11810:2015)  
Lasers and laser-related equipment – Test method and classification for the laser resistance of surgical drapes and/or patient protective covers – Primary ignition, penetration, flame spread and secondary ignition (ISO 11810:2015; EN ISO 11810:2015)

HRN EN ISO 13694:2016 en pr  
Optika i fotonika – Laseri i pridružena oprema – Ispitne metode za raspodjelu gustoće snage (energije) laserskog snopa (ISO 13694:2015; EN ISO 13694:2015)  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution (ISO 13694:2015; EN ISO 13694:2015)

## HZN/TO 176, Upravljanje kvalitetom i osiguravanje kvalitete

HRN ISO 10002:2016 en pr  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za postupanje s reklamacijama u organizacijama (ISO 10002:2014)  
Quality management – Customer satisfaction – Guidelines for complaints handling in organizations (ISO 10002:2014)

HRN ISO 10004:2016 en pr  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za praćenje i mjerjenje (ISO 10004:2012)  
Quality management – Customer satisfaction – Guidelines for monitoring and measuring (ISO 10004:2012)

HRN ISO 10008:2016 en pr  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za elektroničke trgovinske transakcije za poslovanje s potrošačem (ISO 10008:2013)  
Quality management – Customer satisfaction – Guidelines for business-to-consumer electronic commerce transactions (ISO 10008:2013)

HRN ISO 10018:2016 en pr  
Upravljanje kvalitetom – Smjernice o uključenosti i sposobljenosti osoblja (ISO 10018:2012)  
Quality management – Guidelines on people involvement and competence (ISO 10018:2012)

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

HRN EN 13209-2:2016 en pr  
Proizvodi za dojenčad i malu djecu – Nosiljke za dojenčad – Sigurnosni zahtjevi i metode ispitivanja – 2. dio: Mekane nosiljke (EN 13209-2:2015)  
Child use and care articles – Baby carriers – Safety requirements and test methods – Part 2: Soft carrier (EN 13209-2:2015)

HRI CEN/TR 15071:2016 en pr  
Sigurnost igračaka – Nacionalni prijevodi upozorenja i upute za uporabu prema nizu norma EN 71 (CEN/TR 15071:2015)  
Safety of toys – National translations of warnings and instructions for use in the EN 71 series (CEN/TR 15071:2015)

HRI CEN/TR 15371-1:2016 en pr  
Sigurnost igračaka – Tumačenja – 1. dio: Odgovori na zahtjeve za tumačenje EN 71-1, EN 71-2, EN 71-8 i EN 71-14 (CEN/TR 15371-1:2015)  
Safety of toys – Interpretations – Part 1: Replies to requests for interpretation of EN 71-1, EN 71-2, EN 71-8 and EN 71-14 (CEN/TR 15371-1:2015)

HRI CEN/TR 15371-2:2016 en pr  
Sigurnost igračaka – Tumačenja – 2. dio: Odgovori na zahtjeve za tumačenje kemijskih svojstava prema nizu norma EN 71 (CEN/TR 15371-2:2015)  
Safety of toys – Interpretations – Part 2: Replies to requests for interpretation of the chemical standards in the EN 71-series (CEN/TR 15371-2:2015)

## HZN/TO 182, Geotehničke konstrukcije

HRN EN ISO 17892-3:2016 en pr  
Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 3. dio: Određivanje gustoće čvrstih čestica (ISO 17892-3:2015; EN ISO 17892-3:2015)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 3: Determination of particle density (ISO 17892-3:2015; EN ISO 17892-3:2015)

## HZN/TO 207, Upravljanje okolišem

HRN EN ISO 14046:2016 en pr  
Upravljanje okolišem – Vodeni otisak – Načela, zahtjevi i smjernice (ISO 14046:2014; EN ISO 14046:2016)  
Environmental management – Water footprint – Principles, requirements and guidelines (ISO 14046:2014; EN ISO 14046:2016)

## HZN/TO 211, Geoinformacije/Geomatika

HRN EN ISO 19109:2016 en pr  
Geoinformacije – Pravila za aplikacijsku shemu (ISO 19109:2015; EN ISO 19109:2015)  
Geographic information – Rules for application schema (ISO 19109:2015; EN ISO 19109:2015)

## HZN/TO 217, Kozmetika

HRN EN ISO 18416:2016 en pr  
Kozmetika – Mikrobiologija – Dokazivanje kvasca Candida albicans (ISO 18416:2015; EN ISO 18416:2015)  
Cosmetics – Microbiology – Detection of Candida albicans (ISO 18416:2015; EN ISO 18416:2015)

HRN EN ISO 21150:2016 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije Escherichia coli (ISO 21150:2015; EN ISO 21150:2015)  
Cosmetics – Microbiology – Detection of Escherichia coli (ISO 21150:2015; EN ISO 21150:2015)

HRN EN ISO 22717:2016 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije Pseudomonas aeruginosa (ISO 22717:2015; EN ISO 22717:2015)  
Cosmetics – Microbiology – Detection of Pseudomonas aeruginosa (ISO 22717:2015; EN ISO 22717:2015)

HRN EN ISO 22718:2016 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije Staphylococcus aureus (ISO 22718:2015; EN ISO 22718:2015)  
Cosmetics – Microbiology – Detection of Staphylococcus aureus (ISO 22718:2015; EN ISO 22718:2015)

## **HZN/TO 219, Podne obloge**

HRN EN 1307:2016 en pr  
 Tekstilne podne obloge – Razredba (EN 1307:2014+A1:2016)  
 Textile floor coverings – Classification (EN 1307:2014+A1:2016)

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

HRS CEN/TS 14417:2016 en pr  
 Geosintetičke barijere – Metoda ispitivanja za određivanje utjecaja ciklusa vlaženja i sušenja na propusnost glinenih geosintetičkih barijera (CEN/TS 14417:2014)  
 Geosynthetic barriers – Test method for the determination of the influence of wetting-drying cycles on the permeability of clay geosynthetic barriers (CEN/TS 14417:2014)

HRS CEN/TS 14418:2016 en pr  
 Geosintetičke barijere – Metoda ispitivanja za određivanje utjecaja ciklusa smrzavanja i odmrzavanja na propusnost glinenih geosintetičkih barijera (CEN/TS 14418:2014)  
 Geosynthetic Barriers – Test method for the determination of the influence of freezing-thawing cycles on the permeability of clay geosynthetic barriers (CEN/TS 14418:2014)

## **HZN/TO 238, Čvrsta biogoriva**

HRN EN ISO 17828:2016 en pr  
 Čvrsta biogoriva – Određivanje nasipne gustoće (ISO 17828:2015; EN ISO 17828:2015)  
 Solid biofuels – Determination of bulk density (ISO 17828:2015; EN ISO 17828:2015)

HRN EN ISO 17831-1:2016 en pr  
 Čvrsta biogoriva – Određivanje mehaničke izdržljivosti peleta i briketa – 1. dio: Peleti (ISO 17831-1:2015; EN ISO 17831-1:2015)  
 Solid biofuels – Determination of mechanical durability of pellets and briquettes – Part 1: Pellets (ISO 17831-1:2015; EN ISO 17831-1:2015)

HRN EN ISO 17831-2:2016 en pr  
 Čvrsta biogoriva – Određivanje mehaničke izdržljivosti peleta i briketa – 2. dio: Briketi (ISO 17831-2:2015; EN ISO 17831-2:2015)  
 Solid biofuels – Determination of mechanical durability of pellets and briquettes – Part 2: Briquettes (ISO 17831-2:2015; EN ISO 17831-2:2015)

## **HZN/TO 502, Plinski uređaji**

HRN EN 16436-1:2016 en pr  
 Gumena i plastična crijeva, cijevi i spojevi za upotrebu propana, butana i njihovih mješavina u parnoj fazi – 1. dio: Crijeva i cjevovodi (EN 16436-1:2014+A1:2015)  
 Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase – Part 1: Hoses and tubings (EN 16436-1:2014+A1:2015)

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

HRN EN ISO 7500-1:2016 en pr  
 Metalni materijali – Umjeravanje i provjeravanje statickih jednoosnih ispitnih uređaja – 1 dio: Ispitni uređaji za zatezanje/kompresiju – Umjeravanje i provjeravanje sustava za mjerjenje sile (ISO 7500-1:2015; EN ISO 7500-1:2015)  
 Metallic materials – Calibration and verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Calibration and verification of the force-measuring system (ISO 7500-1:2015; EN ISO 7500-1:2015)

HRN EN 10361:2016 en pr  
 Legirani čelici – Određivanje sadržaja nikla – Metoda optičke emisijske spektrometrije s induktivno spregnutom plazmom (EN 10361:2015)  
 Alloyed steels – Determination of Nickel content – Inductively coupled plasma optical emission spectrometric method (EN 10361:2015)

HRN EN 16773:2016 en pr  
 Aluminij i aluminijeve legure – Smjernice za proizvodnju folija za polukrute spremnike za hranu (EN 16773:2016)  
 Aluminium and aluminium alloys – Guideline for the production of foil-stock in the field of semi rigid foodstuff containers (EN 16773:2016)

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

HRN EN ISO 28721-2:2016 en pr  
 Staklasti i porculanski emajli – Staklasto prevučeni aparati za procesna postrojenja – 2. dio: Označivanje i specifikacija otpornosti na kemijsko djelovanje i toplinski šok (ISO 28721-2:2015; EN ISO 28721-2:2015)  
 Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 2: Designation and specification of resistance to chemical attack and thermal shock (ISO 28721-2:2015; EN ISO 28721-2:2015)

## **HZN/TO 505, Prijenos i distribucija plina**

HRN EN 1776:2016 en pr  
 Plinska infrastruktura – Mjerni sustavi za plin – Funkcionalni zahtjevi (EN 1776:2015)  
 Gas infrastructure – Gas measuring systems – Functional requirements (EN 1776:2015)

HRN EN 16726:2016 en pr  
 Plinska infrastruktura – Kvaliteta plina – Grupa H (EN 16726:2015)  
 Gas infrastructure – Quality of gas – Group H (EN 16726:2015)

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

HRN CEN ISO/TS 16530-2:2016 en pr  
 Integritet kanala bušotine – 2. dio: Integritet kanala bušotine pri proizvodnim uvjetima (ISO/TS 16530-2:2014; CEN ISO/TS 16530-2:2015)  
 Well integrity – Part 2: Well integrity for the operational phase (ISO/TS 16530-2:2014; CEN ISO/TS 16530-2:2015)

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

HRN EN ISO 780:2016 en pr  
 Ambalaža – Ambalaža za distribuciju – Grafički simboli za rukovanje i skladištenje pakovina (ISO 780:2015; EN ISO 780:2015)  
 Packaging – Distribution packaging – Graphical symbols for handling and storage of packages (ISO 780:2015; EN ISO 780:2015)

## **HZN/TO 511, Eksplozivi za civilnu uporabu**

HRN EN 16265:2016 en pr  
 Pirotehnička sredstva – Ostala pirotehnička sredstva – Upaljačke naprave (EN 16265:2015)  
 Pyrotechnic articles – Other pyrotechnic articles – Ignition devices (EN 16265:2015)

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

HRN DIN 4103-1:2016 de pr  
 Nenosivi unutarnji pregradni zidovi – 1. dio: Zahtjevi i ispitivanje (DIN 4103-1:2015)  
 Nichttragende innere Trennwände – Teil 1: Anforderungen und Nachweise (DIN 4103-1:2015)

## **HZN/TO 519, Adhezivi**

HRN EN 923:2016 en pr  
 Adhezivi – Nazivi i definicije (EN 923:2015)  
 Adhesives – Terms and definitions (EN 923:2015)

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

HRN CEN/TS 15864:2016 en pr  
 Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju za osnovnu karakterizaciju – Dinamička provjera monolitnog izluživanja sa stalnom obnovom procjedne vode u uvjetima relevantnim za specificirane scenarije (CEN/TS 15864:2015)  
 Characterization of waste – Leaching behaviour test for basic characterization – Dynamic monolithic leaching test with continuous leachant renewal under conditions relevant for specified scenario(s) (CEN/TS 15864:2015)

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

HRN EN ISO 12813:2016 en pr  
 Elektronička naplata – Komunikacija provjere sukladnosti za autonome sustave (ISO 12813:2015; EN ISO 12813:2015)  
 Electronic fee collection – Compliance check communication for autonomous systems (ISO 12813:2015; EN ISO 12813:2015)

HRN EN ISO 12855:2016 en pr  
Elektronička naplata – Razmjena informacija između pružanja usluge i naplate cestarine (ISO 12855:2015; EN ISO 12855:2015)  
Electronic fee collection – Information exchange between service provision and toll charging (ISO 12855:2015; EN ISO 12855:2015)

HRN EN ISO 13141:2016 en pr  
Elektronička naplata – Komunikacija pojačane lokalizacije za autonome sustave (ISO 13141:2015; EN ISO 13141:2015)  
Electronic fee collection – Localisation augmentation communication for autonomous systems (ISO 13141:2015; EN ISO 13141:2015)

HRN ISO 14813-1:2016 en pr  
Inteligentni transportni sustavi – Referentni model arhitekture ITS sektora – 1. dio: Područja primjene ITS-a, skupine usluga i usluge (ISO 14813-1:2015)  
Intelligent transport systems – Reference model architecture(s) for the ITS sector – Part 1: ITS service domains, service groups and services (ISO 14813-1:2015)

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

HRN EN 16659:2016 en pr  
Bitumen i bitumenska veziva – Ispitivanje oporavka veziva nakon puzanja uslijed višestrukog naprezanja (MSCRT) (EN 16659:2015)  
Bituminen and Bituminous Binders – Multiple Stress Creep and Recovery Test (MSCRT) (EN 16659:2015)

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

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

HRN EN 14531-2:2016 en pr  
Željeznički sustav – Metode proračuna zaustavnih puteva, puteva usporjenja i pritvrdnog kočenja – 2. dio: Korak po korak proračun za motorne vlakove ili pojedinačna vozila (EN 14531-2:2015)  
Railway applications – Methods for calculation of stopping and slowing distances and immobilisation braking – Part 2: Step by step calculations for train sets or single vehicles (EN 14531-2:2015)

HRN EN 14535-3:2016 en pr  
Željeznički sustav – Kočni diskovi za željeznička vozila – 3. dio: Kočni diskovi, radna svojstva diskova i tarne čeljusti, klasifikacija (EN 14535-3:2015)  
Railway applications – Brake discs for railway rolling stock – Part 3: Brake discs, performance of the disc and the friction couple, classification (EN 14535-3:2015)

HRN EN 16404:2016 en pr  
Željeznički sustav – Zahtjevi za vraćanje u kolosijek i popravak željezničkih vozila (EN 16404:2016)  
Railway applications – Re-railing and recovery requirements for railway vehicles (EN 16404:2016)

HRN EN 16683:2016 en pr  
Željeznički sustav – Uređaj za poziv u pomoć i komunikaciju – Zahtjevi (EN 16683:2015)  
Railway applications – Call for aid and communication device – Requirements (EN 16683:2015)

HRI CEN/TR 16823:2016 en pr  
Željeznički sustav – Upravljačica – Podloga za antropometrijske podatke (CEN/TR 16823:2015)  
Railway applications – Driver's cab – Background information on anthropometric data (CEN/TR 16823:2015)

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

HRN ISO 9928-1:2016 en pr  
Granici – Upute za upravljanje – 1. dio: Općenito (ISO 9928-1:2015)  
Cranes – Crane operating manual – Part 1: General (ISO 9928-1:2015)

HRN ISO 10245-2:2014/A1:2016 en pr  
Granici – Uređaji za ograničavanje i signaliziranje – 2. dio: Mobilni granici (ISO 10245-2:2014/Amd 1:2015)  
Cranes – Limiting and indicating devices – Part 2: Mobile cranes (ISO 10245-2:2014/Amd 1:2015)

HRN ISO 11660-2:2016 en pr  
Granici – Pristup, zaštita i ograničenja – 2. dio: Mobilni granici (ISO 11660-2:2015)  
Cranes – Access, guards and restraints – Part 2: Mobile cranes (ISO 11660-2:2015)

#### **HZN/TO 530, Čelična užad, lanci, dizalične kuke, trake, omče i pribor**

HRN EN ISO 3266:2011/A1:2016 en pr  
Kovani čelični okasti vijci razreda 4 za opće namjene podizanja (ISO 3266:2010/Amd 1:2015; EN ISO 3266:2010/A1:2015)  
Forged steel eyebolts grade 4 for general lifting purposes (ISO 3266:2010/Amd 1:2015; EN ISO 3266:2010/A1:2015)

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

HRN EN ISO 6383-1:2016 en pr  
Plastika – Film i folija – Određivanje otpornosti na kidanje – 1. dio: Metoda kidanja hlačnica (ISO 6383-1:2015; EN ISO 6383-1:2015)  
Plastics – Film and sheeting – Determination of tear resistance – Part 1: Trouser tear method (ISO 6383-1:2015; EN ISO 6383-1:2015)

HRN EN 16795:2016 en pr  
Plastika – Metoda za procjenu zagrijavanje ravnih površina simulacijom Sunčeva zračenja (EN 16795:2015)  
Plastics – Method for estimating heat build up of flat surfaces by simulated solar radiation (EN 16795:2015)

HRS CEN/TS 16892:2016 en pr  
Plastika – Zavarivanje plastomera – Specifikacija za postupake zavarivanja (CEN/TS 16892:2015)  
Plastics – Welding of thermoplastics – Specification of welding procedures (CEN/TS 16892:2015)

HRN EN ISO 20200:2016 en pr  
Plastika – Određivanje stupnja raspadanja plastičnih materijala simulacijom kompostnih uvjeta u laboratorijskome mjerilu (ISO 20200:2015; EN ISO 20200:2015)  
Plastics – Determination of the degree of disintegration of plastic materials under simulated composting conditions in a laboratory-scale test (ISO 20200:2015; EN ISO 20200:2015)

#### **HZN/TO 532, Dimnjaci**

HRN EN 16475-7:2016 en pr  
Dimnjaci – Pribor – 7. dio: Kišne kape – Zahtjevi i metode ispitivanja (EN 16475-7:2016)  
Chimneys – Accessories – Part 7: Rain caps – Requirements and test methods (EN 16475-7:2016)

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

HRN EN ISO 21009-2:2016 en pr  
Kriogenične posude – Nepomične posude izolirane vakuumom – 2. dio: Pogonski zahtjevi (ISO 21009-2:2015; EN ISO 21009-2:2015)  
Cryogenic vessels – Static vacuum insulated vessels – Part 2: Operational requirements (ISO 21009-2:2015; EN ISO 21009-2:2015)

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

HRN EN 1096-5:2016 en pr  
Staklo u graditeljstvu – Staklo s premazom – 5. dio: Metoda ispitivanja i razredba staklenih ploha s premazom s obzirom na lakoću održavanja čistoće (EN 1096-5:2016)  
Glass in building – Coated glass – Part 5 – Test method and classification for the self-cleaning performances of coated glass surfaces (EN 1096-5:2016)

HRN EN 1628:2016 en pr  
Vrata za pješake, prozori, ovješene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod statičkim opterećenjem (EN 1628:2011+A1:2015)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading (EN 1628:2011+A1:2015)

HRN EN 1629:2016 en pr  
Vrata za pješake, prozori, ovješene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod dinamičkim opterećenjem (EN 1629:2011+A1:2015)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading (EN 1629:2011+A1:2015)

HRN EN 1630:2016 en pr  
Vrata za pješake, prozori, ovješene fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti na provalu priručnim alatom (EN 1630:2011+A1:2015)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts (EN 1630:2011+A1:2015)

HRN EN 15681-1:2016 en pr  
Staklo u graditeljstvu – Proizvodi od osnovnog aluminijskog silikatnog stakla – 1. dio: Definicije i opća fizikalna i mehanička svojstva (EN 15681-1:2016)  
Glass in building – Basic alumino silicate glass products – Part 1: Definitions and general physical and mechanical properties (EN 15681-1:2016)

#### **HZN/TO 543, Poštanske usluge**

HRN EN 13724:2013/Ispr.1:2016 en pr  
Poštanske usluge – Preoreznice za ubacivanje pismovnih pošiljaka na kućnim kovčićima i vratima – Zahtjevi i metode ispitivanja (EN 13724:2013/AC:2016)  
Postal services – Apertures of private letter boxes and letter plates – Requirements and test methods (EN 13724:2013/AC:2016)

#### **HZN/TO 544, Strojni elementi**

HRN EN ISO 2320:2016 en pr  
Spojni elementi – Čelične matice osigurane od odvijanja – Funkcionalna svojstva (ISO 2320:2015; EN ISO 2320:2015)  
Fasteners – Prevailing torque steel nuts – Functional properties (ISO 2320:2015; EN ISO 2320:2015)

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

HRN EN 13201-2:2016 en pr  
Cestovna rasvjeta – 2. dio: Zahtjevana svojstva (EN 13201-2:2015)  
Road lighting – Part 2: Performance requirements (EN 13201-2:2015)

HRN EN 13201-3:2016 en pr  
Cestovna rasvjeta – 3. dio: Proračun svojstava (EN 13201-3:2015)  
Road lighting – Part 3: Calculation of performance (EN 13201-3:2015)

HRN EN 13201-4:2016 en pr  
Cestovna rasvjeta – 4. dio: Metode mjerenja svojstava rasvjete (EN 13201-4:2015)  
Road lighting – Part 4: Methods of measuring lighting performance (EN 13201-4:2015)

HRN EN 13201-5:2016 en pr  
Cestovna rasvjeta – 5. dio: Pokazatelji energetskih svojstava (EN 13201-5:2015)  
Road lighting – Part 5: Energy performance indicators (EN 13201-5:2015)

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

HRN EN 1420:2016 en pr  
Utjecaj organskih materijala na vodu namijenjenu ljudskoj potrošnji – Određivanje mirisa i okusa vode u cjevnim sustavima (EN 1420:2016)  
Influence of organic materials on water intended for human consumption – Determination of odour and flavour assessment of water in piping systems (EN 1420:2016)

HRN EN 15975-1:2016 en pr  
Osiguranje opskrbe vodom za piće – Smjernice za upravljanje rizikom i krizom – 1. dio: Upravljanje krizom (EN 15975-1:2011+A1:2015)  
Security of drinking water supply – Guidelines for risk and crisis management – Part 1: Crisis management (EN 15975-1:2011+A1:2015)

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

HRN EN 285:2016 en pr  
Sterilizatori – Sterilizatori na paru – Veliki sterilizatori (EN 285:2015)  
Sterilization – Steam sterilizers – Large sterilizers (EN 285:2015)

HRN EN ISO 14644-1:2016 en pr  
Čisti prostori i odgovarajući kontrolirani okoliš – 1. dio: Razredba čistoće zraka prema koncentraciji čestica (ISO 14644-1:2015; EN ISO 14644-1:2015)  
Cleanrooms and associated controlled environments – Part 1: Classification of air cleanliness by particle concentration (ISO 14644-1:2015; EN ISO 14644-1:2015)

HRN EN ISO 14644-2:2016 en pr  
Čisti prostori i odgovarajući kontrolirani okoliš – 2. dio: Praćenje radi potvrđivanja čistoće zraka prostora prema koncentraciji čestica (ISO 14644-2:2015; EN ISO 14644-2:2015)  
Cleanrooms and associated controlled environments – Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration (ISO 14644-2:2015; EN ISO 14644-2:2015)

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

HRN EN 13634:2016 en pr  
Zaštitna obuća za vozače motocikla – Zahtjevi i metode ispitivanja (EN 13634:2015)  
Protective footwear for motorcycle riders – Requirements and test methods (EN 13634:2015)

#### **HZN/TO 557, Zaštitna odjeća**

HRN EN ISO 12127-1:2016 en pr  
Odjeća za zaštitu od topline i plamena – Određivanje prolaza dodirne topline kroz odjeću ili sastavne materijale – 1. dio: Dodirna toplina proizvedena cilindrom koji se zagrijava (ISO 12127-1:2015; EN ISO 12127-1:2015)  
Clothing for protection against heat and flame – Determination of contact heat transmission through protective clothing or constituent materials – Part 1: Contact heat produced by heating cylinder (ISO 12127-1:2015; EN ISO 12127-1:2015)

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

HRN EN 331:2016 en pr  
Kuglaste i konusne slavine s ručnim upravljanjem za plinske instalacije u zgradama (EN 331:2015)  
Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings (EN 331:2015)

HRN EN 736-2:2016 en pr  
Zaporni uređaji – Nazivlje – 2. dio: Definicije sastavnih dijelova zapornih uređaja (EN 736-2:2016)  
Valves – Terminology – Part 2: Definition of components of valves (EN 736-2:2016)

HRN EN 1503-4:2016 en pr  
Zaporni uređaji – Materijali za kućišta, jarmove i pokrove – 4. dio: Bakrene legure specificirane u europskim normama (EN 1503-4:2016)  
Valves – Materials for bodies, bonnets and covers – Part 4: Copper alloys specified in European Standards (EN 1503-4:2016)

HRN EN ISO 17292:2016 en pr  
Metalne kuglaste slavine za naftnu, petrokemijsku i srodne industrije (ISO 17292:2015; EN ISO 17292:2015)  
Metal ball valves for petroleum, petrochemical and allied industries (ISO 17292:2015; EN ISO 17292:2015)

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

HRN EN ISO 137:2016 en pr  
Vuna – Određivanje promjera vlakna – Metoda projekcijskog mikroskopa (ISO 137:2015; EN ISO 137:2015)  
Wool – Determination of fibre diameter – Projection microscope method (ISO 137:2015; EN ISO 137:2015)

HRS CEN/TS 14237:2016 en pr  
Tekstil za zdravstvene i javne ustanove (CEN/TS 14237:2015)  
Textiles for healthcare and social services facilities (CEN/TS 14237:2015)

HRN EN ISO 16373-1:2016 en pr  
Tekstil – Bojila – 1. dio: Opća načela ispitivanja obojenog tekstila u svrhu identifikacije bojila (ISO 16373-1:2015; EN ISO 16373-1:2015)  
Textiles – Dyestuffs – Part 1: General principles of testing coloured textiles for dyestuff identification (ISO 16373-1:2015; EN ISO 16373-1:2015)

HRN EN 16732:2016 en pr  
Patentni (zip) zatvarači – Specifikacija (EN 16732:2015)  
Slide (zip) fasteners – Specification (EN 16732:2015)

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

HRN EN ISO 11623:2016 en pr  
Plinske boce – Kompozitna konstrukcija – Periodični pregled i ispitivanje (ISO 11623:2015; EN ISO 11623:2015)  
Gas cylinders – Composite construction – Periodic inspection and testing (ISO 11623:2015; EN ISO 11623:2015)

HRN EN 13445-10:2016 en pr  
Neložene tlačne posude – 10. dio: Dodatni zahtjevi za tlačne posude od nikla i legura nikla (EN 13445-10:2015)  
Unfired pressure vessels – Part 10: Additional requirements for pressure vessels of nickel and nickel alloys (EN 13445-10:2015)

HRN EN 13480-4:2012/A2:2016 en pr  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A2:2015)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A2:2015)

HRN EN 16125:2016 en pr  
Oprema i pribor za UNP – Cjevovodi i nosači – UNP tekuća i parna fazu pod tlakom (EN 16125:2015)  
LPG equipment and Accessories – Pipework systems and supports – LPG liquid phase and vapour pressure phase (EN 16125:2015)

HRN EN ISO 21007-2:2016 en pr  
Plinske boce – Identifikacija i označivanje uporabom tehnologije identificiranja radio-frekvenčnjem – 2. dio: Brojčane sheme za identifikaciju radio-frekvencije (ISO 21007-2:2015; EN ISO 21007-2:2015)  
Gas cylinders – Identification and marking using radio frequency identification technology – Part 2: Numbering schemes for radio frequency identification (ISO 21007-2:2015; EN ISO 21007-2:2015)

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

HRN EN 13236:2016 en pr  
Sigurnosni zahtjevi za superabrazive (EN 13236:2010+A1:2015)  
Safety requirements for superabrasive products (EN 13236:2010+A1:2015)

HRN EN ISO 16089:2016 en pr  
Alatni strojevi – Sigurnost – Stacionarne brusilice (ISO 16089:2015; EN ISO 16089:2015)  
Machine tools – Safety – Stationary grinding machines (ISO 16089:2015; EN ISO 16089:2015)

#### **HZN/TO 563, Sigurnost strojeva**

HRN EN ISO 13849-1:2016 en pr  
Sigurnost strojeva – Sigurnosni dijelovi sustava za nadzor – 1. dio: Osnovna načela za projektiranje (ISO 13849-1:2015; EN ISO 13849-1:2015)  
Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design (ISO 13849-1:2015; EN ISO 13849-1:2015)

HRN EN ISO 14123-2:2016 en pr  
Sigurnost strojeva – Smanjenje rizika za zdravlje koji je rezultat opasnih tvari koje emitiraju strojevi – 2. dio: Metodologija za određivanje postupaka provjere (ISO 14123-2:2015; EN ISO 14123-2:2015)  
Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 2: Methodology leading to verification procedures (ISO 14123-2:2015; EN ISO 14123-2:2015)

HRN EN 16743:2016 en pr  
Strojevi za preradu hrane – Automatski industrijski strojevi za rezanje – Sigurnosni i higijenski zahtjevi (EN 16743:2016)  
Food processing machinery – Automatic industrial slicing machines – Safety and hygiene requirements (EN 16743:2016)

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

HRN EN 926-1:2016 en pr  
Oprema za paraglajding – Paraglajderi – 1. dio: Zahtjevi i metode ispitivanja za čvrstoču konstrukcije (EN 926-1:2015)  
Paragliding equipment – Paragliders – Part 1: Requirements and test methods for structural strength (EN 926-1:2015)

HRN EN 1972:2016 en pr  
Oprema za ronjenje – Disalice – Zahtjevi i metode ispitivanja (EN 1972:2015)  
Diving equipment – Snorkels – Requirements and test methods (EN 1972:2015)

HRN EN 13451-2:2016 en pr  
Oprema za bazene – 2. dio: Dodatni posebni sigurnosni zahtjevi i metode ispitivanja za ljestve, ljestve sa stubama i rukohvate (EN 13451-2:2015)  
Swimming pool equipment – Part 2: Additional specific safety requirements and test methods for ladders, stepladders and handle bents (EN 13451-2:2015)

HRN EN 16805:2016 en pr  
Oprema za ronjenje – Maska za ronjenje – Zahtjevi i metode ispitivanja (EN 16805:2015)  
Diving equipment – Diving mask – Requirements and test methods (EN 16805:2015)

#### **HZN/TO E2, Rotacijski strojevi**

HRN EN 60034-19:2016 en pr  
Rotacijski električni strojevi – 19. dio: Posebne metode ispitivanja istosmjernih strojeva koji se napajaju konvencionalno ili pomoći ispravljača (IEC 60034-19:2014; EN 60034-19:2014)  
Rotating electrical machines – Part 19: Specific test methods for d.c. machines on conventional and rectifier-fed supplies (IEC 60034-19:2014; EN 60034-19:2014)

HRN EN 60034-26:2008/Ispr.1:2016 en pr  
Rotacijski električni strojevi – 26. dio: Utjecaji naponske nesimetrije na radna svojstva trofaznih kaveznih motora (IEC 60034-26:2006/Corr.1:2014; EN 60034-26:2006/AC:2014)  
Rotating electrical machines – Part 26: Effects of unbalanced voltages on the performance of three-phase cage induction motors (IEC 60034-26:2006/Corr.1:2014; EN 60034-26:2006/AC:2014)

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

HRN EN 50122-1:2011/A2:2016 en pr  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mјere protiv električnog udara (EN 50122-1:2011/A2:2016)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/A2:2016)

HRN EN 50405:2016 en pr  
Željeznički sustav – Sustavi oduzimača struje – Pantografi, načini ispitivanja grafitnih klizača (EN 50405:2015)  
Railway applications – Current collection systems – Pantographs, testing methods for contact strips (EN 50405:2015)

HRS CLC/TS 50459-2:2016 en pr  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Europski sustav upravljanja željezničkim prometom – Sučelje strojovođa-vozilo – 2. dio: Ergonomski razmještaj GSM-R informacija (CLC/TS 50459-2:2015)  
Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver-Machine Interface – Part 2: Ergonomic arrangements of GSM-R information (CLC/TS 50459-2:2015)

HRS CLC/TS 50459-3:2016 en pr  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Europski sustav upravljanja željezničkim prometom (ERTMS) – Sučelje strojovođa-vozilo – 3. dio: Ergonomski razmještaj informacija koje nisu ECTS (CLC/TS 50459-3:2016)  
Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver-Machine Interface – Part 3: Ergonomic arrangements of non ETCS information (CLC/TS 50459-3:2016)

HRN EN 50526-3:2016 en pr Željeznički sustav – Stabilna postrojenja – Istosmjerni odvodnici prenapona i uređaji za ograničavanje napona – 3. dio: Vodič za primjenu (EN 50526-3:2016) Railway applications – Fixed installations – D.C. surge arresters and voltage limiting devices – Part 3: Application guide (EN 50526-3:2016)	<b>HZN/TO E20, Električni kabeli</b>
HRN EN 50617-2:2015/Ispr.1:2016 en pr Željeznički sustav – Tehnički parametri sustava za detekciju vlaka – 2. dio: Brojači osovina (EN 50617-2:2015/AC:2016) Railway Applications – Technical parameters of train detection systems for the interoperability of the trans-European railway system – Part 2: Axle counters (EN 50617-2:2015/AC:2016)	HRN EN 50200:2016 en pr Ispitne metode otpornosti na gorenje nezaštićenih kabela malih promjera koji se upotrebljavaju u sigurnosnim strujnim krugovima (EN 50200:2015) Method of test for resistance to fire of unprotected small cables for use in emergency circuits (EN 50200:2015)
HRI CLC/TR 50646:2016 en pr Željeznički sustav – Stabilna postrojenja – Specifikacije za reverzibilne istosmrjene podstанице (CLC/TR 50646:2015) Railway Application – Fixed Installations – Specification for reversible d.c. substations (CLC/TR 50646:2015)	HRN EN 50577:2016 en pr Električni kabeli – Ispitivanje otpornosti na požar za nezaštićene električne kabele (Razredba P) (EN 50577:2015) Electric cables – Fire resistance test for unprotected electric cables (P classification) (EN 50577:2015)
HRN EN 61287-1:2014/Ispr.1:2016 en pr Željeznički sustav – Energetski pretvarači ugrađeni na željeznička vozila – 1. dio: Karakteristike i metode ispitivanja (EN 61287-1:2014/AC:2014) Railway applications – Power converters installed on board rolling stock – Part 1: Characteristics and test methods (EN 61287-1:2014/AC:2014)	HRN EN 60332-1-1:2007/A1:2016 en pr Ispitivanja električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 1-1: Ispitivanje na okomito širenje plamena za jednožilne izolirane vodove ili kable – Uredaji (IEC 60332-1-1:2004/am1:2015; EN 60332-1-1:2004/A1:2015) Tests on electric and optical fibre cables under fire conditions – Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus (IEC 60332-1-1:2004/am1:2015; EN 60332-1-1:2004/A1:2015)
HRI CEN/TS 10002-1:2015 en pr Mineralnim uljem punjena električna oprema u pogonu – Upute za tumačenje rezultata analize otopljenih i slobodnih plinova (IEC 60599:2015; EN 60599:2016) Mineral oil-filled electrical equipment in service – Guidance on the interpretation of dissolved and free gases analysis (IEC 60599:2015; EN 60599:2016)	HRN EN 60332-1-2:2007/A1:2016 en pr Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 1-2: Ispitivanje na okomito širenje plamena za jednožilne izolirane vodove ili kable – Postupak za pripremu kisika i gorivog plina za snagu plamena od 1kW (IEC 60332-1-2:2004/am1:2015; EN 60332-1-2:2004/A1:2015) Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single pre-mixed flame (IEC 60332-1-2:2004/am1:2015; EN 60332-1-2:2004/A1:2015)
HRN EN 61144:2005/Ispr.1:2016 en pr Ispitna metoda određivanja indeksa utroška kisika izolacijskih tekućina (EN 61144:1993/AC:1993) Test method for the determination of oxygen index of insulating liquids (EN 61144:1993/AC:1993)	HRN EN 60332-1-3:2007/A1:2016 en pr Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 1-3: Ispitivanje na okomito širenje plamena za jednožilne izolirane vodove ili kable – Postupak za određivanje gorivih kapljica/čestica (IEC 60332-1-3:2004/am1:2015; EN 60332-1-3:2004/A1:2015) Tests on electric and optical fibre cables under fire conditions – Part 1-3: Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles (IEC 60332-1-3:2004/am1:2015; EN 60332-1-3:2004/A1:2015)
<b>HZN/TO E11, Nadzemni vodovi</b>	<b>HZN/TO E31, Eksplozivne atmosfere</b>
HRN EN 50341-3:2008/Ispr.5:2016 en pr Nadzemni električni vodovi izmjenične struje iznad 45 kV – 3. dio: Nacionalni normativni aspekti (EN 50341-3:2001/AC:2006) Overhead electrical lines exceeding AC 45 kV – Part 3: Set of National Normative Aspects (EN 50341-3:2001/AC:2006)	HRI CEN/TR 16793:2016 en pr Vodič za odabir, postavljanje i uporabu prigušivača plamena (CEN/TR 16793:2016) Guide for the selection, application and use of flame arresters (CEN/TR 16793:2016)
<b>HZN/TO E14, Energetski transformatori</b>	HRN EN 60079-6:2016 en pr Eksplozivne atmosfere – 6. dio: Vrsta zaštite opreme uranjanje "o" (IEC 60079-6:2015; EN 60079-6:2015) Explosive atmospheres – Part 6: Equipment protection by liquid immersion "o" (IEC 60079-6:2015; EN 60079-6:2015)
HRN EN 50299-1:2016 en pr Sklopovi za uljem punjene kabelske veze za transformatore i prigušnice koji imaju najviši napon opreme Um od 72,5 kV do 550 kV – 1. dio: Priključci kabela punjeni tekućinom (EN 50299-1:2014) Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment Um from 72,5 kV to 550 kV – Part 1: Fluid-filled cable terminations (EN 50299-1:2014)	HRN EN 60079-7:2016 en pr Eksplozivne atmosfere – 7. dio: Vrsta zaštite opreme povećana sigurnost "e" (IEC 60079-7:2015; EN 60079-7:2015) Explosive atmospheres – Part 7: Equipment protection by increased safety "e" (IEC 60079-7:2015; EN 60079-7:2015)
HRN EN 50299-2:2016 en pr Sklopovi za uljem punjene kabelske veze za transformatore i prigušnice koji imaju najviši napon opreme Um od 72,5 kV do 550 kV – 2. dio: Priključci kabela suhog tipa (EN 50299-2:2014) Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment Um from 72,5 kV to 550 kV – Part 2: Dry-type cable terminations (EN 50299-2:2014)	HRN EN 60079-10-1:2016 en pr Eksplozivne atmosfere – Dio 10-1: Klasifikacija ugroženih prostora – Eksplozivne atmosfere plinova (IEC 60079-10-1:2015+Corr.1:2015; EN 60079-10-1:2015) Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres (IEC 60079-10-1:2015+Corr.1:2015; EN 60079-10-1:2015)
<b>HZN/TO E17, Sklopni i upravljački uređaji</b>	<b>HZN/TO E34, Žarulje, svjetiljke i pripadna oprema</b>
HRN EN 62683:2016 en pr Niskonaponska sklopna aparatura – Strukture podataka za elektroničku razmjenu informacija o svojstvima proizvoda (IEC 62683:2015; EN 62683:2015) Low-voltage switchgear and controlgear – Product data and properties for information exchange (IEC 62683:2015; EN 62683:2015)	HRN EN 60061-1:2008/A52:2016 en pr Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am52:2015, MOD; EN 60061-1:1993/A52:2016) Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am52:2015, MOD; EN 60061-1:1993/A52:2016)

HRN EN 60061-1:2008/A53:2016 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 1. dio: Podnošci za žarulje (IEC 60061-1:1969/am53:2015; EN 60061-1:1993/A53:2015)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps (IEC 60061-1:1969/am53:2015; EN 60061-1:1993/A53:2015)

HRN EN 60061-2:2008/A50:2016 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 2. dio: Grla za žarulje (IEC 60061-2:1969/am50:2015; EN 60061-2:1993/A50:2015)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/am50:2015; EN 60061-2:1993/A50:2015)

HRN EN 60061-3:2008/A51:2016 en pr  
Podnošci i grla za žarulje, granična mjerila za kontrolu zamjenjivosti i sigurnosti – 3. dio: Granična mjerila (IEC 60061-3:1969/am51:2015; EN 60061-3:1993/A51:2015)  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/am51:2015; EN 60061-3:1993/A51:2015)

HRN EN 60598-1:2015/Isp.1:2016 en pr  
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (IEC 60598-1:2014/Corr.1:2015; EN 60598-1:2015/AC:2015)  
Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/Corr.1:2015; EN 60598-1:2015/AC:2015)

HRN EN 60598-1:2015/Isp.2:2016 en pr  
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (IEC 60598-1:2014/Corr.2:2015; EN 60598-1:2015/AC:2016)  
Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/Corr.2:2015; EN 60598-1:2015/AC:2016)

HRN EN 62722-1:2016 en pr  
Značajke svjetiljki – 1. dio: Opći zahtjevi (IEC 62722-1:2014, MOD; EN 62722-1:2016)  
Luminaire performance – Part 1: General requirements (IEC 62722-1:2014, MOD; EN 62722-1:2016)

HRN EN 62838:2016 en pr  
Poluintegrirane žarulje sa svjetlećim diodama za opću rasvjetu s naponima napajanja koji ne prelaze 50 V efektivno izmjenično ili 120 V istosmjerno bez valovitosti – Sigurnosne specifikacije (IEC 62838:2015; EN 62838:2016)  
LEDs lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. – Safety specifications (IEC 62838:2015; EN 62838:2016)

## HZN/TO E36, Izolatori

HRN EN 62231-1:2016 en pr  
Kompozitni stanični potporni izolatori za transformatorske stanice nazivnih napona većih od 1 000 V do 245 kV – 1. dio: Definicije, mehaničke i električne karakteristike (IEC 62231-1:2015; EN 62231-1:2016)  
Composite station post insulators for substations with AC voltages greater than 1 000 V up to 245 kV – Part 1: Dimensional, mechanical and electrical characteristics (IEC 62231-1:2015; EN 62231-1:2016)

## HZN/TO E55, Žice za namote

HRN EN 60317-0-4:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – Dio 0-4: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena žica omotana staklenim vlaknima i impregnirana smolom ili lakom (IEC 60317-0-4:2015; EN 60317-0-4:2016)  
Specifications for particular types of winding wires – Part 0-4: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-4:2015; EN 60317-0-4:2016)

HRN EN 60317-31:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – 31. dio: Nelakirana ili lakirana profilna bakrena žica, omotana staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 180 (IEC 60317-31:2015; EN 60317-31:2016)  
Specifications for particular types of winding wires – Part 31: Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180 (IEC 60317-31:2015; EN 60317-31:2016)

HRN EN 60317-32:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – 32. dio: Nelakirana ili lakirana profilna bakrena žica, omotana staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 155 (IEC 60317-32:2015; EN 60317-32:2016)  
Specifications for particular types of winding wires – Part 32: Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155 (IEC 60317-32:2015; EN 60317-32:2016)

HRN EN 60317-33:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – 33. dio: Nelakirana ili lakirana profilna bakrena žica, opletena staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 200 (IEC 60317-33:2015; EN 60317-33:2016)  
Specifications for particular types of winding wires – Part 33: Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200 (IEC 60317-33:2015; EN 60317-33:2016)

HRN EN 60317-39:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – 39. dio: Nelakirana ili lakirana profilna bakrena žica, opletena staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 180 (IEC 60317-39:2015; EN 60317-39:2016)  
Specifications for particular types of winding wires – Part 39: Glass-fibre braided resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180 (IEC 60317-39:2015; EN 60317-39:2016)

HRN EN 60317-59:2016 en pr  
Specifikacije pojedinih vrsta žica za namote – 59. dio: Poliimidom lakirana okrugla bakrena žica, razreda 240 (IEC 60317-59:2015; EN 60317-59:2016)  
Specifications for particular type of winding wires – Part 59: Polyamideimide enameled round copper wire, class 240 (IEC 60317-59:2015; EN 60317-59:2016)

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

HRN EN 61968-6:2016 en pr  
Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 6. dio: Sučelja za održavanje i izgradnju (IEC 61968-6:2015; EN 61968-6:2016)  
Application integration at electric utilities – System interfaces for distribution management – Part 6: Interfaces for maintenance and construction (IEC 61968-6:2015; EN 61968-6:2016)

HRN EN 61970-456:2014/A1:2016 en pr  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 456. dio: Riješeni profili stanja elektroenergetskog sustava (IEC 61970-456:2013/am1:2015; EN 61970-456:2013/A1:2016)  
Energy management system application program interface (EMS-API) – Part 456: Solved power system state profiles (IEC 61970-456:2013/am1:2015; EN 61970-456:2013/A1:2016)

HRN EN 62325-451-4:2016 en pr  
Okvir za komunikaciju na tržištu električnom energijom – Dio 451-4: Utvrđivanje i usklađivanje poslovnih procesa, kontekstualni i skupni modeli za europsko tržište (IEC 62325-451-4:2014; EN 62325-451-4:2015)  
Framework for energy market communications – Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market (IEC 62325-451-4:2014; EN 62325-451-4:2015)

## HZN/TO E59, Uporabne značajke električnih kućanskih aparatova

HRN EN 50440:2016 en pr  
Učinkovitost kućanskih električnih akumulacijskih grijaca vode i metode ispitivanja (EN 50440:2015)  
Efficiency of domestic electrical storage water heaters and testing methods (EN 50440:2015)

HRN EN 60350-2:2014/A11:2016 en pr  
Kućanski električni aparati za kuhanje – 2. dio: Električna ugradbena ploča – Metode ispitivanja za mjerjenje radnih značajaka (EN 60350-2:2013/A11:2014)  
Household electric cooking appliances – Part 2: Hobs – Methods for measuring performance (EN 60350-2:2013/A11:2014)



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

HRN EN 60335-2-102:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-102: Posebni zahtjevi za aparate na plinovito, uljno i kruto gorivo s električnim priključkom (IEC 60335-2-102:2004, MOD+am1:2008, MOD+am2:2012, MOD; EN 60335-2-102:2016) Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:2004, MOD+am1:2008, MOD+am2:2012, MOD; EN 60335-2-102:2016)

HRN EN 60335-2-14:2008/A11:2012/Isprič.2:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-14: Posebni zahtjevi za kuhinjske strojeve (EN 60335-2-14:2006/A11:2012/AC:2016) Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines (EN 60335-2-14:2006/A11:2012/AC:2016)

HRN EN 60335-2-14:2008/A12:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-14: Posebni zahtjevi za kuhinjske strojeve (EN 60335-2-14:2006/A12:2016) Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines (EN 60335-2-14:2006/A12:2016)

HRN EN 60335-2-15:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-15: Posebni zahtjevi za aparate za grijanje tekućina (IEC 60335-2-15:2012, MOD; EN 60335-2-15:2016) Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids (IEC 60335-2-15:2012, MOD; EN 60335-2-15:2016)

HRN EN 60335-2-3:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-3: Posebni zahtjevi za električna glaćala (IEC 60335-2-3:2012, MOD; EN 60335-2-3:2016) Household and similar electrical appliances – Safety – Part 2-3: Particular requirements for electric irons (IEC 60335-2-3:2012, MOD; EN 60335-2-3:2016)

HRN EN 60335-2-35:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-35: Posebni zahtjevi protočnih grijaća vode (IEC 60335-2-35:2012, MOD; EN 60335-2-35:2016) Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters (IEC 60335-2-35:2012, MOD; EN 60335-2-35:2016)

HRN EN 60335-2-58:2008/A12:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-58: Posebni zahtjevi za ugostiteljske električne perilice posuđa (EN 60335-2-58:2005/A12:2016) Household and similar electrical appliances – Safety – Part 2-58: Particular requirements for commercial electric dishwashing machines (EN 60335-2-58:2005/A12:2016)

HRN EN 60335-2-58:2008/A2:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-58: Posebni zahtjevi za ugostiteljske električne perilice posuđa (IEC 60335-2-58:2002/am2:2015; EN 60335-2-58:2005/A2:2015) Household and similar electrical appliances – Safety – Part 2-58: Particular requirements for commercial electric dishwashing machines (IEC 60335-2-58:2002/am2:2015; EN 60335-2-58:2005/A2:2015)

HRN EN 60335-2-86:2008/A11:2016 en pr

Kućanski i slični električni aparati – Sigurnost – Dio 2-86: Posebni zahtjevi za aparate za pecanje (EN 60335-2-86:2003/A11:2016) Household and similar electrical appliances – Safety – Part 2-86: Particular requirements for electric fishing machines (EN 60335-2-86:2003/A11:2016)

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

HRN EN 60601-1:1999/Isprič.2:2016 en pr

Medicinski električni uređaji – 1. dio: Opći sigurnosni zahtjevi (EN 60601-1:1990/AC:1994) Medical electrical equipment – Part 1: General requirements for safety (EN 60601-1:1990/AC:1994)

HRN EN 60601-2-8:2015/A1:2016 en pr  
Medicinski električni uređaji – Dio 2-8: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke rendgenske terapijske opreme koja radi u području od 10 kV do 1 MV (IEC 60601-2-8:2010/am1:2015; EN 60601-2-8:2015/A1:2016) Medical electrical equipment – Part 2-8: Particular requirements for the basic safety and essential performance of therapeutic X-ray equipment operating in the range 10 kV to 1 MV (IEC 60601-2-8:2010/am1:2015; EN 60601-2-8:2015/A1:2016)

HRN EN 62366-1:2015/Isprič.1:2016 en pr  
Medicinski uređaji – 1. dio: Primjena prikladnog oblikovanja i konstrukcije medicinskih uređaja (EN 62366-1:2015/AC:2015) Medical devices – Part 1: Application of usability engineering to medical devices (EN 62366-1:2015/AC:2015)

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

HRN IEC 60364-7-713:2016 en pr  
Niskonaponske električne instalacije – Dio 7-713: Zahtjevi za posebne instalacije ili prostore – Namještaj (IEC 60364-7-713:2013) Low-voltage electrical installations – Part 7-713: Requirements for special installations or locations – Furniture (IEC 60364-7-713:2013)

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

HRN EN 61804-4:2016 en pr  
Funkcijski blokovi (FB) za vođenje procesa i jezik za opis električnih uređaja (EDDL) – 4. dio: Tumačenje opisa električnih uređaja (EDD) (IEC 61804-4:2015; EN 61804-4:2016) Function blocks (FB) for process control and Electronic Device Description Language (EDDL) – Part 4: EDD interpretation (IEC 61804-4:2015; EN 61804-4:2016)

HRN EN 61987-21:2016 en pr  
Mjerjenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – 21. dio: Popis svojstava automatiziranih ventila za električnu razmjenu podataka – Općenite strukture (IEC 61987-21:2015; EN 61987-21:2016) Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 21: List of Properties (LOPs) of automated valves for electronic data exchange – Generic structures (IEC 61987-21:2015; EN 61987-21:2016)

HRN EN 61987-22:2016 en pr  
Mjerjenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – 22. dio: Popis svojstava dijelova trupa ventila za električnu razmjenu podataka (IEC 61987-22:2015; EN 61987-22:2016) Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 22: Lists of Properties (LOPs) of valve body assemblies for electronic data exchange (IEC 61987-22:2015; EN 61987-22:2016)

HRN EN 61987-23:2016 en pr  
Mjerjenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – 23. dio: Popis svojstava aktuatora za električnu razmjenu podataka (IEC 61987-23:2015; EN 61987-23:2016) Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 23: Lists of Properties (LOPs) of actuators for electronic data exchange (IEC 61987-23:2015; EN 61987-23:2016)

HRN EN 61987-24-1:2016 en pr  
Mjerjenje i vođenje industrijskih procesa – Strukture podataka i elemenata u katalozima procesne opreme – Dio 24-1: Popis svojstava uređaja za pozicioniranje i I/P pretvornika za električnu razmjenu podataka (IEC 61987-24-1:2015; EN 61987-24-1:2016) Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 24-1: Lists of Properties (LOPs) of positioners and I/P converters for electronic data exchange (IEC 61987-24-1:2015; EN 61987-24-1:2016)

HRS CLC/TS 62603-1:2016 en pr  
Sustavi za vođenje industrijskih procesa – Smjernice za ocjenjivanje sustava za vođenje procesa – 1. dio: Specifikacije (IEC/TS 62603-1:2014; CLC/TS 62603-1:2014) Industrial process control systems – Guidelines for evaluating process control systems – Part 1: Specifications (IEC/TS 62603-1:2014; CLC/TS 62603-1:2014)

## **HZN/TO E78, Rad pod naponom**

HRN EN 61472:2013/Ispr.1:2016 en pr

Rad pod naponom – Minimalne udaljenosti približavanja za postrojenja izmjeničnog napona od 72,5 kV do 800 kV – Metoda proračuna (IEC 61472:2013/Corr.1:2015; EN 61472:2013/AC:2015)

Live working – Minimum approach distances for a.c. systems in the voltage range 72,5 kV to 800 kV – A method of calculation (IEC 61472:2013/Corr.1:2015; EN 61472:2013/AC:2015)

HRN EN 61481-2:2016 en pr

Rad pod naponom – Fazni komparatori – 2. dio: Otpornički tip za uporabu kod izmjeničnih napona od 1 kV do 36 kV (IEC 61481-2:2014; EN 61481-2:2014)

Live working – Phase comparators – Part 2: Resistive type to be used for voltages from 1 kV to 36 kV a.c. (IEC 61481-2:2014; EN 61481-2:2014)

## **HZN/TO E79, Alarmni sustavi**

HRN EN 62676-1-2:2015/Ispr.1:2016 en pr

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)

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

HRN EN 61996-1:2013/Ispr.1:2016 en pr

Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodski zapisivač podataka o putovanju (VDR) – 1. dio: Izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 61996-1:2013/Corr.1:2014; EN 61996-1:2013/AC:2014)

Maritime navigation and radiocommunication equipment and systems – Shipborne voyage data recorder (VDR) – Part 1: Performance requirements, methods of testing and required test results (IEC 61996-1:2013/Corr.1:2014; EN 61996-1:2013/AC:2014)

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

HRN EN 62087-2:2016 en pr

Audio, video i pripadajuća oprema – Određivanje potrošnje energije – 2. dio: Signali i sredstva (TA 12) (IEC 62087-2:2015; EN 62087-2:2016)

Audio, video, and related equipment – Determination of power consumption – Part 2: Signals and media (IEC 62087-2:2015; EN 62087-2:2016)

HRN EN 62379-5-1:2016 en pr

Zajedničko upravljačko sučelje za umrežene digitalne audio i video proizvode – Dio 5-1: Prijenos podatkovnim mrežama – Općenito (IEC 62379-5-1:2014; EN 62379-5-1:2014)

Common control interface for networked digital audio and video products – Part 5-1: Transmission over networks – General (IEC 62379-5-1:2014; EN 62379-5-1:2014)

HRN EN 62459:2012/Ispr.1:2016 en pr

Oprema audiosustava – Elektroakustički pretvarači – Mjerjenje zaostalih dijelova (IEC 62459:2010/Corr.1:2015; EN 62459:2011/AC:2015)

Sound system equipment – Electroacoustic transducers – Measurement of suspension parts (IEC 62459:2010/Corr.1:2015; EN 62459:2011/AC:2015)

HRN EN 62680-1-1:2016 en pr

Universal Serial Bus interfaces for data and power – Part 1-1: Universal Serial Bus interfaces – Common components – USB Battery Charging Specification, Revision 1.2 (TA 14) (IEC 62680-1-1:2015; EN 62680-1-1:2015)

HRN EN 62680-2-1:2016 en pr

Universal Serial Bus interfaces for data and power – Part 2-1: Universal Serial Bus Specification, Revision 2.0 (TA 14) (IEC 62680-2-1:2015; EN 62680-2-1:2015)

HRN EN 62680-2-2:2016 en pr

Universal Serial Bus interfaces for data and power – Part 2-2: Universal Serial Bus – Micro-USB Cables and Connectors Specification, Revision 1.01 (TA 14) (IEC 62680-2-2:2015; EN 62680-2-2:2015)

HRN EN 62680-2-3:2016 en pr

Universal Serial Bus interfaces for data and power – Part 2-3: Universal Serial Bus Cables and Connectors Class Document, Revision 2.0 (TA 14) (IEC 62680-2-3:2015; EN 62680-2-3:2015)

HRN EN 62842:2016 en pr

File allocation system with minimized reallocation for multimedia home server (TA 8) (IEC 62842:2015; EN 62842:2015)

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

HRI CLC/TR 50442:2016 en pr

Smjernice za odbore proizvoda u vezi pripreme norma koje se odnose na izlaganje ljudi elektromagnetskim poljima (CLC/TR 50442:2005)

Guidelines for product committees on the preparation of standards related to human exposure from electromagnetic fields (CLC/TR 50442:2005)

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

HRN EN 50561-3:2016 en pr

Uređaji za komunikaciju preko energetskih vodova koji se upotrebljavaju uniskonaponskim instalacijama – Karakteristike radio smetnji – Granice i metode mjerjenja – 3. dio: Uređaji koji rade iznad 30 MHz (EN 50561-3:2016)

Power line communication apparatus used in low-voltage installations – Radio disturbance characteristics – Limits and methods of measurement – Part 3: Apparatus operating above 30 MHz (EN 50561-3:2016)

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

HRN EN 50174-1:2010/A2:2016 en pr

Informacijska tehnologija – Instalacija kabliranja – 1. dio: Specifikacija instalacije i osiguranje kvalitete (EN 50174-1:2009/A2:2014)

Information technology – Cabling installation – Part 1: Installation specification and quality assurance (EN 50174-1:2009/A2:2014)

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

HRN EN 300 019-2-3 V2.4.1:2016 en pr

Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-3: Specifikacije testova okoliša – Stacionarna primjena na vremenski zaštićenim lokacijama (EN 300 019-2-3 V2.4.1:2015)

Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-3: Specification of environmental tests – Stationary use at weatherprotected locations (EN 300 019-2-3 V2.4.1:2015)

HRN EN 300 019-2-4 V2.4.1:2016 en pr

Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-4 V2.4.1:2015)

Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations (EN 300 019-2-4 V2.4.1:2015)

HRN EN 300 176-1 V2.2.1:2016 en pr

Digitalne poboljšane bežične telekomunikacije (DECT) – Ispitna specifikacija – 1. dio: Radio (EN 300 176-1 V2.2.1:2015)

Digital Enhanced Cordless Telecommunications (DECT) – Test specification – Part 1: Radio (EN 300 176-1 V2.2.1:2015)

HRN EN 300 225 V1.5.1:2016 en pr

Elektromagnetska kompatibilnost i radijski spektar (ERM) – Tehničke karakteristike i metode mjerjenja za prijenosni VHF radiotelefonski aparat u čamcu za spašavanje (EN 300 225 V1.5.1:2015)

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Technical characteristics and methods of measurement for survival craft portable VHF radiotelephone apparatus (EN 300 225 V1.5.1:2015)



HRN EN 300 392-3-1 V1.4.1:2016 en pr	Terestrijalni međumjesni radio (TETRA) – Glas plus podaci (V+D) – 3. dio: Međudjelovanje na međusistemskom sučelju (ISI) – 1. poddio: Opća izvedba (EN 300 392-3-1 V1.4.1:2015)	Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 054-2 V1.2.1:2015)	
HRN EN 301 025 V2.1.1:2016 en pr	VHF radiotelefonska oprema za opću komunikaciju i pridružena oprema za klasu „D“ digitalnog selektivnoga pozivanja (DSC) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članaka 3.2 i 3.3(g) direktive 2014/53/EU (EN 301 025 V2.1.1:2015)	Meteorološka pomoć (Met pom.) – Radiosonde za primjenu u frekvencijskom području od 1 668,4 MHz do 1 690 MHz – 1. dio: Tehničke značajke i metode ispitivanja (EN 302 454-1 V1.2.1:2015)	
	VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) – Harmonised Standard covering the essential requirements of articles 3.2 and 3.3(g) of the Directive 2014/53/EU (EN 301 025 V2.1.1:2015)	Meteorological Aids (Met Aids) – Radiosondes to be used in the 1 668,4 MHz to 1 690 MHz frequency range – Part 1: Technical characteristics and test methods (EN 302 454-1 V1.2.1:2015)	
HRN EN 301 178 V2.1.1:2016 en pr	Prijenosna VHF radiotelefonska oprema za pomorsku pokretnu službu u VHF pojasevima (samo za primjenu koja nije GMDSS) – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 301 178 V2.1.1:2015)	HRN EN 302 454-2 V1.2.1:2016 en pr	Meteorološka pomoć (Met pom.) – Radiosonde za primjenu u frekvencijskom području od 1 668,4 MHz do 1 690 MHz – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 302 454-2 V1.2.1:2015)
	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 the Directive 2014/53/EU (EN 301 178 V2.1.1:2015)	Meteorological Aids (Met Aids) – Radiosondes to be used in the 1 668,4 MHz to 1 690 MHz frequency range – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 454-2 V1.2.1:2015)	
HRN EN 301 466 V1.2.1:2016 en pr	Tehničke karakteristike i metode mjerjenja za dvosmjerni VHF radiotelefonski aparat za fiksnu instalaciju u čamcu za spašavanje (EN 301 466 V1.2.1:2015)	HRN EN 302 617-2 V2.1.1:2016 en pr	Na tlu bazirani UHF radijski odašiljači, prijamnici i primopredajnici s amplitudnom modulacijom za UHF zrakoplovnu pokretnu službu – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 302 617-2 V2.1.1:2015)
	Technical characteristics and methods of measurement for two-way VHF radiotelephone apparatus for fixed installation in survival craft (EN 301 466 V1.2.1:2015)	Ground-based UHF radio transmitters, receivers and transceivers for the UHF aeronautical mobile service using amplitude modulation – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 302 617-2 V2.1.1:2015)	
HRN EN 301 908-2 V7.1.1:2016 en pr	Celularne mreže IMT – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 2. dio: Korisnička oprema (UE) za CDMA s izravnim proširenjem (UTRA FDD) (EN 301 908-2 V7.1.1:2015)	HRN EN 302 769 V1.3.1:2016 en pr	Digitalna video difuzija (DVB) – Okvir strukture kanala kodiranja i modulacije za drugu generaciju digitalnoga sustava prijenosa za kabelske sustave (DVB-C2) (EN 302 769 V1.3.1:2015)
	IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE) (EN 301 908-2 V7.1.1:2015)	Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2) (EN 302 769 V1.3.1:2015)	
HRN EN 301 908-10 V4.2.1:2016 en pr	Elektromagnetska kompatibilnost i radijski spektar (ERM) – Bazne postaje (BS), repetitori i korisnička oprema (UE) za IMT-2000 treću generaciju celularnih mreža – 10. dio: Harmonizirana norma za IMT-2000, FDMA/TDMA (DECT) koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU (EN 301 908-10 V4.2.1:2015)	<b>HZN/TO Z2, Ocjenjivanje sukladnosti i akreditacija</b>	
	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Base Stations (BS) – Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks – Part 10: Harmonised Standard for IMT-2000 – FDMA/TDMA (DECT) covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 301 908-10 V4.2.1:2015)	HRS ISO/IEC TS 17021-2:2016 en pr	Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 2. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja okolišem (ISO/IEC TS 17021-2:2012)
HRN EN 301 908-13 V7.1.1:2016 en pr	Celularne mreže IMT – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 13. dio: Korisnička oprema (UE) za razvijeni univerzalni terestrijalni radijski pristup (E-UTRA) (EN 301 908-13 V7.1.1:2015)	Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 2: Competence requirements for auditing and certification of environmental management systems (ISO/IEC TS 17021-2:2012)	
	IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) (EN 301 908-13 V7.1.1:2015)	HRS ISO/IEC TS 17021-3:2016 en pr	Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 3. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja kvalitetom (ISO/IEC TS 17021-3:2013)
HRN EN 302 054-1 V1.2.1:2016 en pr	Meteorološka pomoć (Met pom.) – Radiosonde za primjenu u frekvencijskom području od 400,15 MHz do 406 MHz s razinom snage do 200 mW – 1. dio: Tehničke značajke i metode ispitivanja (EN 302 054-1 V1.2.1:2015)	Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 3: Competence requirements for auditing and certification of quality management systems (ISO/IEC TS 17021-3:2013)	
	Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 1: Technical characteristics and test methods (EN 302 054-1 V1.2.1:2015)	HRS ISO/IEC TS 17021-4:2016 en pr	Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 4. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja održivosti priredbi (ISO/IEC TS 17021-4:2013)
HRN EN 302 054-2 V1.2.1:2016 en pr	Meteorološka pomoć (Met pom.) – Radiosonde za primjenu u frekvencijskom području od 400,15 MHz do 406 MHz s razinama snage do 200 mW – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive Directive 2014/53/EU (EN 302 054-2 V1.2.1:2015)	Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 4: Competence requirements for auditing and certification of event sustainability management systems (ISO/IEC TS 17021-4:2013)	
	Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Competence requirements for auditing and certification of asset management systems (ISO/IEC TS 17021-5:2014)	HRS ISO/IEC TS 17021-5:2016 en pr	Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 5. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja imovinom (ISO/IEC TS 17021-5:2014)
		Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 5: Competence requirements for auditing and certification of asset management systems (ISO/IEC TS 17021-5:2014)	

HRS ISO/IEC TS 17021-6:2016 en pr  
Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 6. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja neprekidnošću poslovanja (ISO/IEC TS 17021-6:2014)  
Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 6: Competence requirements for auditing and certification of business continuity management systems (ISO/IEC TS 17021-6:2014)

HRS ISO/IEC TS 17021-7:2016 en pr  
Ocenjivanje sukladnosti – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja – 7. dio: Zahtjevi osposobljenosti za auditiranje i certifikaciju sustava upravljanja sigurnošću cestovnog prometa (ISO/IEC TS 17021-7:2014)  
Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 7: Competence requirements for auditing and certification of road traffic safety management systems (ISO/IEC TS 17021-7:2014)

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

HRI CEN/TR 15855:2016 en pr  
Gradevni proizvodi – Procjena otpuštanja opasnih tvari – Zapreke trgovini (CEN/TR 15855:2009)  
Construction products – Assessment of release of dangerous substances – Barriers to trade (CEN/TR 15855:2009)

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

HRN EN 16785-1:2016 en pr  
Proizvodi na biološkoj osnovi – Biološki sadržaj – 1. dio: Određivanje biološkog sadržaja u proizvodima upotrebom analize radioaktivnim ugljikom i elementarnom analizom (EN 16785-1:2015)  
Bio-based products – Bio-based content – Part 1: Determination of the bio-based content using the radiocarbon analysis and elemental analysis (EN 16785-1:2015)

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

HRN EN ISO 7623:2016 en pr  
Transportne trake s čeličnom užadi – Ispitivanje veze užadi i obloge – Početno ispitivanje i ispitivanje nakon toplinske obrade (ISO 7623:2015; EN ISO 7623:2015)  
Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment (ISO 7623:2015; EN ISO 7623:2015)

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

HRN EN ISO 1135-4:2016 en pr  
Oprema za transfuziju za medicinsku primjenu – 4. dio: Setovi za transfuziju za jednokratnu upotrebu, s gravitacijskim punjenjem (ISO 1135-4:2015; EN ISO 1135-4:2015)  
Transfusion equipment for medical use – Part 4: Transfusion sets for single use, gravity feed (ISO 1135-4:2015; EN ISO 1135-4:2015)

HRN EN ISO 1135-5:2016 en pr  
Oprema za transfuziju za medicinsku primjenu – 5. dio: Pribor za transfuziju za jednokratnu upotrebu s opremom za infuziju pod tlakom (ISO 1135-5:2015; EN ISO 1135-5:2015)  
Transfusion equipment for medical use – Part 5: Transfusion sets for single use with pressure infusion apparatus (ISO 1135-5:2015; EN ISO 1135-5:2015)

HRN EN ISO 4074:2016 en pr  
Kondomi za muškarce od prirodnog lateksa – Zahtjevi i metode ispitivanja (ISO 4074:2015; EN ISO 4074:2015)  
Natural rubber latex male condoms – Requirements and test methods (ISO 4074:2015; EN ISO 4074:2015)

HRN EN ISO 8362-1:2010/A1:2016 en pr  
Posude za injekcije i pribor – 1. dio: Injekcijske boćice od cijevnog stakla (ISO 8362-1:2009/Amd 1:2015; EN ISO 8362-1:2009/A1:2015)  
Injection containers and accessories – Part 1: Injection vials made of glass tubing (ISO 8362-1:2009/Amd 1:2015; EN ISO 8362-1:2009/A1:2015)

HRN EN ISO 13017:2012/A1:2016 en pr  
Stomatologija – Magnetne kopče (ISO 13017:2012/Amd 1:2015; EN ISO 13017:2012/A1:2015)  
Dentistry – Magnetic attachments (ISO 13017:2012/Amd 1:2015; EN ISO 13017:2012/A1:2015)

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

HRN EN 2633:2016 en pr  
Zrakoplovstvo – Legura aluminija AL-P2024-AlCu4Mg1-T3511 – Ekstrudirane šipke i profili – 1,2 mm ≤ De ≤ 160 mm s kontroliranim okolnim grubim zrnom (EN 2633:2015)  
Aerospace series – Aluminium alloy AL-P2024-AlCu4Mg1-T3511 – Extruded bars and sections – 1,2 mm ≤ De ≤ 160 mm with peripheral coarse grain control (EN 2633:2015)

HRN EN 2704:2016 en pr  
Zrakoplovstvo – Legura aluminija AL-P2024-AlCu4Mg1-T3511 – Vučene šipke – De ≤ 75 mm (EN 2704:2015)  
Aerospace series – Aluminium alloy AL-P2024-AlCu4Mg1-T3511 – Drawn bars – De ≤ 75 mm (EN 2704:2015)

HRN EN 3660-001:2016 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 001: Tehnička specifikacija (EN 3660-001:2016)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 001: Technical specification (EN 3660-001:2016)

HRN EN 3660-002:2016 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 002: Indeks norma za proizvod (EN 3660-002:2016)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 002: Index of product standards (EN 3660-002:2016)

HRN EN 3660-062:2016 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 062. dio: Kabelski izlaz, tip K, 90°, za elemente koje se skupljaju na toplini, oklopjeni, zabrtvleni, samozatvarajući za EN 3645 – Norma za proizvod (EN 3660-062:2016)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 062: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 – Product standard (EN 3660-062:2016)

HRN EN 3660-064:2016 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 064. dio: Kabelski izlaz, tip K, ravni, za elemente koje se skupljaju na toplini, oklopjeni, zabrtvleni, samozatvarajući za EN 2997 – Norma za proizvod (EN 3660-064:2016)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 064: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 – Product standard (EN 3660-064:2016)

HRN EN 3660-065:2016 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 065: Kabelski izlaz, tip K, 90°, za elemente koje se skupljaju na toplini, oklopjeni, zabrtvleni, samozatvarajući – Norma za proizvod (EN 3660-065:2016)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 065: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self locking – Product standard (EN 3660-065:2016)

HRN EN 3982:2016 en pr  
Zrakoplovstvo – Legura aluminija AL-P7050-AlZn6CuMgZr-T7451 – Ploče – 6 mm < a ≤ 160 mm (EN 3982:2015)  
Aerospace series – Aluminium alloy AL-P7050-AlZn6CuMgZr-T7451 – Plates – 6 mm < a ≤ 160 mm (EN 3982:2015)

HRN EN 3997:2016 en pr  
Zrakoplovstvo – Legura aluminija AL-P2024-Al Cu4Mg1-T3 – Lim i traka – 0,4 mm ≤ a ≤ 6 mm (EN 3997:2015)  
Aerospace series – Aluminium alloy AL-P2024-Al Cu4Mg1-T3 – Sheet and strip – 0,4 mm ≤ a ≤ 6 mm (EN 3997:2015)

HRN EN 4531-002:2016 en pr  
Zrakoplovstvo – Spojnice, optičke, kružne, jednostrukе i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravn kontakti – Dio 002: Specifikacije značajki i položaj kontakata (EN 4531-002:2016)  
Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 002: Specification of performance and contact arrangements (EN 4531-002:2016)

HRN EN 4531-101:2016 en pr	Zrakoplovstvo – Spojnice, optičke, kružne, jednostrukе i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravnı kontakti – 101. dio: Optički kontakt za EN 4641 višenaručni kabel – od 55 °C do 125 °C – Norma za proizvod (EN 4531-101:2016)	HRN EN 9102:2016 en pr	Zrakoplovstvo – Sustavi kvalitete – Zahtjevi za ispitivanje prvog uzorka (EN 9102:2015)
	Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 101: Optical contact for EN 4641 multimode cable – 55 °C to 125 °C – Product standard (EN 4531-101:2016)		Aerospace series – Quality systems – First article inspection requirements (EN 9102:2015)
HRN EN 4531-201:2016 en pr	Zrakoplovstvo – Spojnice, optičke, kružne, jednostrukе i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravnı kontakti – 201. dio: Optički kontakt za EN 4641 jednaručni kabel – od 55 °C do 125 °C – Norma za proizvod (EN 4531-201:2016)	HRN EN 9114:2016 en pr	Zrakoplovstvo – Sustavi kvalitete – Upute za izravnu otpremu za zrakoplovne tvrtke (EN 9114:2015)
	Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 201: Optical contact for EN 4641 singlemode cable – 55 °C to 125 °C – Product standard (EN 4531-201:2016)		Aerospace series – Quality systems – Direct Ship Guidance for Aerospace Companies (EN 9114:2015)
HRN EN 4644-011:2016 en pr	Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 011: Utikač, veličine 1, bez otvora za ugradnju, razreda A, C i E – Norma za proizvod (EN 4644-011:2015)	HRN EN 9116:2016 en pr	Zrakoplovstvo – Zahtjevi za obavijesti o promjenama (EN 9116:2015)
	Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 011: Plug, size 1, without mounting holes, class A, C and E – Product standard (EN 4644-011:2015)		Aerospace series – Notice of Change (NOC) Requirements (EN 9116:2015)
HRN EN 4644-013:2016 en pr	Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – Dio 013: Utikač, veličine 1, s uzemljnjem, bez otvora za ugradnju, razreda B i F – Norma za proizvod (EN 4644-013:2015)	HRN EN 9131:2016 en pr	Zrakoplovstvo – Sustavi upravljanja kvalitetom – Definicija podataka i dokumentacija o nesukladnosti (EN 9131:2016)
	Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 013: Plug, size 1, with ground block, without mounting holes, class B and F – Product standard (EN 4644-013:2015)		Aerospace series – Quality Management Systems – Nonconformance Data Definition and Documentation (EN 9131:2016)
HRN EN 4644-131:2016 en pr	Zrakoplovstvo – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 131. dio: Utikač veličine 3 za priključne ploče utaknute u okvir – Norma za proizvod (EN 4644-131:2015)	HRN/TU U1, Opća elektrotehnika 1	
	Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 131: Size 3 plug for rack and panel applications, class C and D – Product standard (EN 4644-131:2015)	HRN EN 60068-2-39:2016 en pr	Ispitivanje utjecaja okoliša – Dio 2-39: Ispitivanja – Ispitivanja i upute: Kombinirana ispitivanja temperatura ili temperatura i vlažnost sa niskim tlakom zraka (IEC 60068-2-39:2015; EN 60068-2-39:2016)
			Environmental testing – Part 2-39: Tests – Tests and guidance: Combined temperature or temperature and humidity with low air pressure tests (IEC 60068-2-39:2015; EN 60068-2-39:2016)
HRN EN 60068-2-60:2016 en pr	Ispitivanje utjecaja okoliša – Dio 2-60: Ispitivanja – Ke ispitivanje: Korozionska ispitivanja na tekući miješani plin (IEC 60068-2-60:2015; EN 60068-2-60:2015)	HRN EN 60068-2-60:2016 en pr	Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test (IEC 60068-2-60:2015; EN 60068-2-60:2015)
HRN EN 60974-6:2016 en pr	Oprema za elektrolučno zavarivanje – 6. dio: Oprema s ograničenim radnim ciklusom (IEC 60974-6:2015; EN 60974-6:2016)	HRN EN 60974-6:2016 en pr	Oprema za elektrolučno zavarivanje – 6. dio: Oprema s ograničenim radnim ciklusom (IEC 60974-6:2015; EN 60974-6:2016)
			Arc welding equipment – Part 6: Limited duty equipment (IEC 60974-6:2015; EN 60974-6:2016)
HRN EN 62321-7-1:2016 en pr	Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – Dio 7-1: Utvrđivanje prisutnosti šesterovalentnog kroma (Cr(VI)) u neobojenim i obojenim prevlakama za zaštitu od korozije na metalima kolorimetrijskom metodom (IEC 62321-7-1:2015; EN 62321-7-1:2015)	HRN EN 62321-7-1:2016 en pr	Utvrđivanje određenih supstanci u elektrotehničkim proizvodima – Dio 7-1: Utvrđivanje prisutnosti šesterovalentnog kroma (Cr(VI)) u neobojenim i obojenim prevlakama za zaštitu od korozije na metalima kolorimetrijskom metodom (IEC 62321-7-1:2015; EN 62321-7-1:2015)
			Determination of certain substances in electrotechnical products – Part 7-1: Determination of the presence of hexavalent chromium (Cr(VI)) in colorless and colored corrosion-protected coatings on metals by the colorimetric method (IEC 62321-7-1:2015; EN 62321-7-1:2015)
HRN/TU V1, Elektronika 1			
HRN EN 50090-5-3:2016 en pr	Home and Building Electronic Systems (HBES) – Part 5-3: Media and media dependent layers – Radio Frequency for HBES Class 1 (EN 50090-5-3:2016)	HRN EN 50411-3-5:2016 en pr	Fibre organisers and closures to be used in optical fibre communication systems – Product specifications – Part 3-5: Wall outlet (EN 50411-3-5:2015)
HRN EN 50583-1:2016 en pr	Photovoltaics in buildings – Part 1: BIPV modules (EN 50583-1:2016)	HRN EN 50583-2:2016 en pr	Photovoltaics in buildings – Part 2: BIPV systems (EN 50583-2:2016)
HRN EN 60352-5:2012/Ispr.1:2016 en pr	Solderless connections – Part 5: Press-in connections – General requirements, test methods and practical guidance (IEC 60352-5:2012/Corr.1:2014; EN 60352-5:2012/AC:2014)	HRN EN 60352-5:2012/Ispr.1:2016 en pr	Solderless connections – Part 5: Press-in connections – General requirements, test methods and practical guidance (IEC 60352-5:2012/Corr.1:2014; EN 60352-5:2012/AC:2014)

HRN EN 60384-20:2016 en	pr	
Fixed capacitors for use in electronic equipment – Part 20: Sectional specification – Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors (IEC 60384-20:2015; EN 60384-20:2015)		
HRN EN 60384-24:2016 en	pr	
Fixed capacitors for use in electronic equipment – Part 24: Sectional specification – Fixed tantalum electrolytic surface mount capacitors with conductive polymer solid electrolyte (IEC 60384-24:2015; EN 60384-24:2015)		
HRN EN 60384-25:2016 en	pr	
Fixed capacitors for use in electronic equipment – Part 25: Sectional specification: Fixed aluminium electrolytic surface mount capacitors with conductive polymer solid electrolyte (IEC 60384-25:2015; EN 60384-25:2015)		
HRN EN 60749-42:2016 en	pr	
Semiconductor devices – Mechanical and climatic test methods – Part 42: Temperature and humidity storage (IEC 60749-42:2014; EN 60749-42:2014)		
HRN EN 60876-1:2016 en	pr	
Fibre optic interconnecting devices and passive components Fibre optic spatial switches – Part 1: Generic specification (IEC 60876-1:2014; EN 60876-1:2014)		
HRN EN 60939-3:2016 en	pr	
Passive filter units for electromagnetic interference suppression – Part 3: Passive filter units for which safety tests are appropriate (IEC 60939-3:2015; EN 60939-3:2015)		
HRN EN 60966-2-7:2016 en	pr	
Radio frequency and coaxial cable assemblies – Part 2-7: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 MHz to 3 000 MHz, IEC 61169-47 connectors (IEC 60966-2-7:2015; EN 60966-2-7:2016)		
HRN EN 61196-10:2016 en	pr	
Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric (IEC 61196-10:2014; EN 61196-10:2016)		
HRN EN 61280-4-2:2016 en	pr	
Fibre-optic communication subsystem test procedures – Part 4-2: Installed cable plant – Single-mode attenuation and optical return loss measurement (IEC 61280-4-2:2014; EN 61280-4-2:2014)		
HRN EN 61300-2-50:2008/Ispr.1:2016 en	pr	
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-50: Tests – Fibre optic connector proof test with static load – Singlemode and multimode (IEC 61300-2-50:2007/Corr.1:2015; EN 61300-2-50:2007/AC:2015)		
HRN EN 61300-2-51:2008/Ispr.1:2016 en	pr	
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-51: Tests – Fibre optic connector test for transmission with applied tensile load – Singlemode and multimode (IEC 61300-2-51:2007/Corr.1:2015; EN 61300-2-51:2007/AC:2015)		
HRN EN 61300-3-21:2016 en	pr	
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-21: Examinations and measurements – Switching time (IEC 61300-3-21:2014; EN 61300-3-21:2015)		
HRN EN 61300-3-35:2016 en	pr	
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers (IEC 61300-3-35:2015; EN 61300-3-35:2015)		
HRN EN 61754-15:2010/Ispr.1:2016 en	pr	
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 15: Type LSH connector family (IEC 61754-15:2009/Corr.1:2014; EN 61754-15:2009/AC:2014)		
HRN EN 62047-22:2016 en	pr	
Semiconductor devices – Micro-electromechanical devices – Part 22: Electromechanical tensile test method for conductive thin films on flexible substrates (IEC 62047-22:2014; EN 62047-22:2014)		
HRN EN 62137-4:2015/Ispr.1:2016 en	pr	
Electronics assembly technology – Part 4: Endurance test methods for solder joint of area array type package surface mount devices (EN 62137-4:2014/AC:2015)		
HRN EN 62317-5:2016 en	pr	
Ferrite cores – Dimensions – Part 5: EP-cores and associated parts for use in inductors and transformers (IEC 62317-5:2015; EN 62317-5:2015)		
HRN EN 62870:2016 en	pr	
Electrical installations for lighting and beaconing of aerodromes – Safety secondary circuits in series circuits – General safety requirements (IEC 62870:2015; EN 62870:2015)		

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

HRN EN 60127-7:2016 en	pr	
Minijaturni osigurači – 7. dio: Minijaturni rastalni ulošci osigurača za specijalne primjene (IEC 60127-7:2015; EN 60127-7:2016)		
Miniature fuses – Part 7: Miniature fuse-links for special applications (IEC 60127-7:2015; EN 60127-7:2016)		
HRN EN 62841-2-2:2015/Ispr.1:2016 en	pr	
Elektromotorni ručni alati, prenosivi alati i strojevi za travnjake i vrtove – Sigurnost – Dio 2-2: Posebni zahtjevi za ručne uređaje za pjeskanjeno i poliranje bez diska (IEC 62841-2-2:2014/Corr.1:2015; EN 62841-2-2:2014/AC:2015)		
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches (IEC 62841-2-2:2014/Corr.1:2015; EN 62841-2-2:2014/AC:2015)		
HRN EN 62841-2-4:2015/Ispr.1:2016 en	pr	
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-4: Posebni zahtjevi za ručne uređaje za pjeskanjeno i poliranje bez diska (IEC 62841-2-4:2014/Corr.1:2015; EN 62841-2-4:2014/AC:2015)		
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-4: Particular requirements for hand-held sanders and polishers other than disc type (IEC 62841-2-4:2014/Corr.1:2015; EN 62841-2-4:2014/AC:2015)		
HRN EN 62841-3-10:2016 en	pr	
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-10: Posebni zahtjevi za prijenosne rezne alate (IEC 62841-3-10:2015, MOD; EN 62841-3-10:2015)		
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-10: Particular requirements for transportable cut-off machines (IEC 62841-3-10:2015, MOD; EN 62841-3-10:2015)		
HRN EN 62841-3-1:2015/Ispr.1:2016 en	pr	
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-1: Posebni zahtjevi za prijenosne stolne pile (IEC 62841-3-1:2014/Corr.1:2015; EN 62841-3-1:2014/AC:2015)		
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws (IEC 62841-3-1:2014/Corr.1:2015; EN 62841-3-1:2014/AC:2015)		
HRN EN 62841-3-9:2016 en	pr	
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-9: Posebni zahtjevi za prijenosne kutne pile (IEC 62841-3-9:2014, MOD; EN 62841-3-9:2015)		
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws (IEC 62841-3-9:2014, MOD; EN 62841-3-9:2015)		

## 1.2 Nacrti hrvatskih norma

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o nacrtima hrvatskih norma (oznaka nHRN). Pisane primjedbe na nacrti hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrti hrvatske norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo). Nacrti su hrvatskih norma zainteresiranim na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

## HZN/TO 22, Cestovna vozila

nHRI ISO/TR 8713 hr,en pp  
Cestovna vozila na električni pogon – Terminološki rječnik (ISO/TR 8713:2012)  
Electrically propelled road vehicles – Vocabulary (ISO/TR 8713:2012)

## 1.3 Prijedlozi za prihvatanje stranih norma u izvorniku

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

## HZN/TO 8, Brodogradnja

ISO 5488:2015 en  
Ships and marine technology – Accommodation ladders  
Brodovi i pomorska tehnologija – Ljestve u prostoru nastambi

ISO 7061:2015 en  
Ships and marine technology – Aluminium shore gangways for seagoing vessels  
Brodovi i pomorska tehnologija – Aluminijski mostić ili siz za pomorska plovila

## HZN/TO 21, Protupožarna i vatrogasnna oprema

prEN 12259-9 en  
Fixed firefighting systems – Components for sprinkler and water spray systems – Part 9: Deluge alarm valves

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

prEN ISO 4254-7:2014 en  
Agricultural machinery – Safety – Part 7: Combine harvesters, forage harvesters, cotton harvesters and sugar cane harversters (ISO/DIS 4254-7:2014)  
Poljoprivredna mehanizacija – Sigurnost – 7. dio: Kombajni, kombajni za krmne usjeve, kombajni za pamuk i kombajni za šećernu trsku (ISO/DIS 4254-7:2014)

EN ISO 4254-12:2012/prA1 en  
Agricultural machinery – Safety – Part 12: Rotary disc and drum mowers and flail mowers (ISO 4254-12:2012/DAM1:2016)  
Poljoprivredna mehanizacija – Sigurnost – 12. dio: Kružne vertikalne kosilice i sitnilice (ISO 4254-12:2012/DAM1:2016)

EN ISO 5395-3:2013/prA2 en  
Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 3: Ride-on lawnmowers with seated operator (ISO 5395-3:2013/DAM 2:2016)  
Oprema za vrtove i parkove – Sigurnosni zahtjevi za kosilice trave pogonjene motorom s unutrašnjim izgaranjem – 3. dio: Kosilice trave s rukovateljem koji sjedi na kosilici (ISO 5395-3:2013/DAM 2:2016)

prEN 16952 en

Agricultural machinery – Rough-terrain Work Platforms for Orchard's operations (WPO) – Safety  
Mehanizacija za vrtove i parkove – Radna platforma za neravni teren za Orhardove radeve u voćnjaku (WPO) – Sigurnost

## HZN/TO 28, Naftni proizvodi i maziva

prEN ISO 4259-1 en

Petroleum products – Precision of measurement methods and results – Part 1: Determination of precision data in relation to methods of test (ISO/DIS 4259-1:2016)

prEN ISO 4259-2 en

Petroleum and related products – Precision of measurement methods and results – Part 2: Interpretation and application of precision data in relation to methods of test (ISO/DIS 4259-2:2016)

FprEN ISO 22854 en

Liquid petroleum products – Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel – Multidimensional gas chromatography method (ISO/FDIS 22854:2015)

Tekući naftni proizvodi – Određivanje vrste ugljikovodika i oksigenata u gorivu za motorna vozila – Metoda višedimenzionalne plinske kromatografije (ISO/FDIS 22854:2015)

## HZN/TO 34, Poljoprivredni i prehrambeni proizvodi

ISO 22004:2014 en

Food safety management systems – Guidance on the application of ISO 22000  
Sustavi upravljanja sigurnošću hrane – Upute za primjenu norme ISO 22000

## HZN/TO 34/PO 4, Poljoprivredni i prehrambeni proizvodi; Žito i proizvodi od žita

prEN 15587 en

Cereal and cereal products – Determination of Besatz in wheat (Triticum aestivum L.), durum wheat (Triticum durum Desf.), rye (Secale cereale L.), triticale (Triticosecale Wittmack spp) and feed barley (Hordeum vulgare L.)  
Žitarice i proizvodi od žitarica – Određivanje količine stranih tvari u krušnoj pšenici (Triticum aestivum L.), tvrdoj pšenici (T.durum Desf.), raži (Secale cereale L.), pšenonraži (Triticosecale Wittmack spp) i stočnom ječmu (Hordeum vulgare L.)

## HZN/TO 34/PO 10, Poljoprivredni i prehrambeni proizvodi; Senzorske analize

FprEN 16889 en

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

## HZN/TO 35, Boje i lakovi

prEN ISO 11126-10 en

Preparation of steel substrates before application of paints and related products – Specifications for non-metallic blast-cleaning abrasives – Part 10: Almandite garnet (ISO/DIS 11126-10:2015)

Preprema čeličnih podloga prije nanošenja boja i srodnih proizvoda – Specifikacije za nemetalne abrazive za čišćenje mlazom – 10. dio: Almandit granat (ISO/DIS 11126-10:2015)

FprEN ISO 11664-6 en

Colorimetry – Part 6: CIEDE2000 Colour-difference formula (ISO/CIE 11664-6:2014)  
Kolorimetrija – 6. dio: Formula za izračunavanje kolorimetrijske razlike CIEDE2000 (ISO/CIE 11664-6:2014)

prEN ISO 12944-1 en

Paints and varnishes – Corrosion protection of steel structures by protective coating systems – Part 1: General introduction (ISO/DIS 12944-1:2016)

Boje i lakovi – Zaštita čeličnih konstrukcija od korozije zaštitnim sustavom boja – 1. dio: Opći uvod (ISO/DIS 12944-1:2016)

prEN ISO 12944-2 en

Paints and varnishes – Corrosion protection of steel structures by protective coating systems – Part 2: Classification of environments (ISO/DIS 12944-2:2016)  
Boje i lakovi – Zaštita čeličnih konstrukcija od korozije zaštitnim sustavom boja – 2. dio: Razredba okoliša (ISO/DIS 12944-2:2016)

prEN ISO 12944-3 en

Paints and varnishes – Corrosion protection of steel structures by protective coating systems – Part 3: Design considerations (ISO/DIS 12944-3:2016)  
Boje i lakovi – Zaštita čeličnih konstrukcija od korozije zaštitnim sustavom boja – 3. dio: Razmatranje oblikovanja (ISO/DIS 12944-3:2016)

prEN ISO 12944-7 en

Paints and varnishes – Corrosion protection of steel structures by protective coating systems – Part 7: Execution and supervision of paint work (ISO/DIS 12944-7:2016)  
Boje i lakovi – Zaštita čeličnih konstrukcija od korozije zaštitnim sustavom boja – 7. dio: Izvođenje i nadzor bojenja (ISO/DIS 12944-7:2016)

## HZN/TO 37, Terminologija

prEN ISO 2603 en

Simultaneous interpreting – Permanent booths – Requirements (ISO/DIS 2603:2016)

prEN ISO 4043 en

Simultaneous interpreting – Mobile booths – Requirements (ISO/DIS 4043:2016)

prEN ISO 20109 en

Simultaneous interpreting – Equipment – Requirements (ISO/DIS 20109:2016)

## HZN/TO 43, Akustika

prEN ISO 10140-4 en

Acoustics – Laboratory measurement of sound insulation of building elements – Part 4: Measurement procedures and requirements (ISO/DIS 10140-4:2015)

Akustika – Laboratorijska mjerena zvučne izolacije građevnih dijelova zgrade – 4. dio: Mjerni postupci i zahtjevi (ISO/DIS 10140-4:2015)

prEN ISO 12354-1 en

Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 1: Airborne sound insulation between rooms (ISO/DIS 12354-1:2016)

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 1. dio: Zračna zvučna izolacija između prostorija (ISO/DIS 12354-1:2016)

prEN ISO 12354-2 en

Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 2: Impact sound insulation between rooms (ISO/DIS 12354-2:2016)

Građevna akustika – Procjena akustičkih svojstava građevina iz akustičkih svojstava elemenata – 2. dio: Udarna zvučna izolacija između prostorija (ISO/DIS 12354-2:2016)

prEN ISO 12354-3 en

Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 3: Airborne sound insulation against outdoor sound (ISO/DIS 12354-3:2016)

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 3. dio: Zračna zvučna izolacija od vanjskog zvuka (ISO/DIS 12354-3:2016)

prEN ISO 12354-4 en

Building acoustics – Estimation of acoustic performance of buildings from the performance of elements – Part 4: Transmission of indoor sound to the outside (ISO/DIS 12354-4:2016)

Građevna akustika – Procjena akustičkih svojstava građevina iz svojstava elemenata – 4. dio: Prijenos zvuka iznutra prema van (ISO/DIS 12354-4:2016)

prEN 15657 en

Acoustic properties of building elements and of buildings – Laboratory measurement of structure-borne sound from building service equipment for all installation conditions

Akustička svojstva građevnih elemenata i zgrada – Laboratorijsko mjerjenje strukturnog zvuka od opreme zgrade za sve uvjete instalacija

## HZN/TO 44, Zavarivanje i srodnji postupci

prEN ISO 3580 en

Welding consumables – Covered electrodes for manual metal arc welding of creep-resisting steels – Classification (ISO/DIS 3580:2016)

Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektrolučno zavarivanje čelika otpornih na puzanje – Razredba (ISO/DIS 3580:2016)

prEN ISO 5175-1 en

Gas welding equipment – Safety devices – Part 1: Incorporating a flame (flashback) arrestor (ISO/DIS 5175-1:2016)

Oprema za plinsko zavarivanje – Sigurnosni uređaji – 1. dio: Ugrađen hvatač povratnog plamena (ISO/DIS 5175-1:2016)

prEN ISO 5175-2 en

Gas welding equipment – Safety devices – Part 2: Not incorporating a flame (flashback) arrestor (ISO/DIS 5175-2:2016)

Oprema za plinsko zavarivanje – Sigurnosni uređaji – 2. dio: Neugrađen hvatač povratnog plamena (ISO/DIS 5175-2:2016)

prEN ISO 14232-1 en

Thermal spraying – Powders – Part 1: Characterisation and technical supply conditions (ISO/DIS 14232-1:2016)

Toplinsko naštrcavanje – Praškovi – Kemijski sastav i tehnički uvjeti isporuke (ISO/DIS 14232-1:2016)

prEN ISO 15296 en

Gas welding equipment – Terminology – Terms used for gas welding equipment (ISO/DIS 15296:2016)

Oprema za plinsko zavarivanje – Nazivlje – Nazivi koji se upotrebljavaju za opremu za plinsko zavarivanje (ISO/DIS 15296:2016)

prEN ISO 17633 en

Welding consumables – Tubular cored electrodes and rods for gas shielded and non-gas shielded metal arc welding of stainless and heat-resisting steels – Classification (ISO/DIS 17633:2016)

Dodatni i potrošni materijali za zavarivanje – Žice punjene praškom i šipke za elektrolučno zavarivanje sa zaštitom plina i bez zaštite plina za nehrđajuće čelike i čelike otporne na visoke temperature – Razredba (ISO/DIS 17633:2016)

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

ISO 11799:2015 en

Information and documentation – Document storage requirements for archive and library materials  
Informacije i dokumentacija – Zahtjevi za pohranu dokumenata arhivske i knjižnične grade

## HZN/TO 71, Beton

prEN 12390-14 en

Testing hardened concrete – Part 14: Semi-adiabatic method for the determination of heat released by concrete during its hardening process

Ispitivanje očvrsnuloga betona – 14. dio: Poluadijabatska metoda za određivanje topline oslobođene za vrijeme procesa očvršćivanja betona

prEN 12390-15 en

Testing hardened concrete – Part 15: Adiabatic method for the determination of heat released by concrete during its hardening process

Ispitivanje očvrsnuloga betona – 15. dio: Adijabatska metoda za određivanje topline oslobođene za vrijeme procesa očvršćivanja betona

## HZN/TO 74, Cement i vapno

FprEN 413-2 en

Masonry cement – Part 2: Test methods  
Zidarski cement – 2. dio: Metode ispitivanja

## HZN/TO 82, Rudarstvo

prEN ISO 19225 en

Underground mining machines – Mobile extracting machines at the face – Safety requirements for shearer loaders and plough systems (ISO/DIS 19225:2016)

Strojevi za podzemne rudnike – Pokretni strojevi za dobivanje na širokom čelu – Sigurnosni zahtjevi za valjkaste utovarivače i plugove (ISO/DIS 19225:2016)

## **HZN/TO 92, Zaštita od požara**

prEN 1364-2 en

Fire resistance for tests for non-loadbearing elements – Part 2: Ceilings  
Ispitivanja otpornosti na požar nenosivih elemenata – 2. dio: Stropovi

## **HZN/TO 120, Koža i obuća**

FprEN ISO 2417 en

Leather – Physical and mechanical tests – Determination of the static absorption of water (ISO/CDIS 2417:2015)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje statičkog upijanja vode (ISO/CDIS 2417:2015)

prEN ISO 2589 rev en

Leather – Physical and mechanical tests – Determination of thickness (ISO/CDIS 2589:2015)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje debljine (ISO/CDIS 2589:2015)

FprEN ISO 3377-2 en

Leather – Physical and mechanical tests – Determination of tear load – Part 2: Double edge tear (ISO/CDIS 3377-2:2015)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje čvrstoće dalnjeg kidanja – 2. dio: Dvostrani zarez (ISO/CDIS 3377-2:2015)

FprEN ISO 17229 en

Leather – Physical and mechanical tests – Determination of water vapour absorption (ISO/CDIS 17229:2015)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje apsorpcije vodene pare (ISO/CDIS 17229:2015)

FprEN ISO 17236 en

Leather – Physical and mechanical tests – Determination of extension set (ISO/CDIS 17236:2015)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje istezanja nakon opterećenja (ISO/CDIS 17236:2015)

prEN ISO 18454 en

Footwear – Standard atmospheres for conditioning and testing of footwear and components for footwear (ISO/DIS 18454:2016)  
Obuća – Standardna atmosfera za kondicioniranje i ispitivanje obuće i dijelova za obuću (ISO/DIS 18454:2016)

prEN ISO 18896 en

Footwear – Test methods for shanks – Longitudinal stiffness (ISO/DIS 18896:2016)  
Obuća – Ispitne metode za zglobojake – Uzdužna krutost (ISO/DIS 18896:2016)

prEN ISO 20866 en

Footwear – Test methods for insoles – Delamination resistance (ISO/DIS 20866:2016; prEN ISO 20866)  
Obuća – Metode ispitivanja tabanica – Otpornost na raslojavanje (ISO/DIS 20866:2016; prEN ISO 20866)

prEN ISO 20867 en

Footwear – Test methods for insoles – Heel pin holding strength (ISO/DIS 20867:2016)  
Obuća – Metode ispitivanja tabanica – Čvrstoća držanja petnog vijka (ISO/DIS 20867:2016)

prEN ISO 20870 en

Footwear – Ageing conditioning (ISO/DIS 20870:2016)  
Obuća – Starenje kondicioniranjem (ISO/DIS 20870:2016)

prEN ISO 20871 en

Footwear – Test methods for outsoles – Abrasion resistance (ISO/DIS 20871:2016)  
Obuća – Metode ispitivanja tabanica – Otpornost potplata na trošenje (ISO/DIS 20871:2016)

prEN ISO 20872 en

Footwear – Test methods for outsoles – Tear strength (ISO/DIS 20872:2016)  
Obuća – Metode ispitivanja potplata – Ispitivanje čvrstoće na daljnje kidanje (ISO/DIS 20872:2016)

prEN ISO 20873 en

Footwear – Test methods for outsoles – Dimensional stability (ISO/DIS 20873:2016)  
Obuća – Metode ispitivanja potplata – Dimenzijska stabilnost (ISO/DIS 20873:2016)

prEN ISO 20874 en

Footwear – Test methods for outsoles – Needle tear strength (ISO/DIS 20874:2016)  
Obuća – Metode ispitivanja potplata – Čvrstoća na kidanje klinom (ISO/DIS 20874:2016)

prEN ISO 20875 en

Footwear – Test methods for outsoles – Determination of split tear strength and delamination resistance (ISO/DIS 20875:2016)  
Obuća – Metode ispitivanja potplata – Određivanje čvrstoće dalnjeg raslojavanja (ISO/DIS 20875:2016)

prEN ISO 20876 en

Footwear – Test methods for insoles – Resistance to stitch tear (ISO/DIS 20876:2016)  
Obuća – Metode ispitivanja tabanica – Otpornost na kidanje klinom (ISO/DIS 20876:2016)

prEN ISO 22650 en

Footwear – Test methods for whole shoe – Heel attachment (ISO/DIS 22650:2016)  
Obuća – Metode ispitivanja obuće – Pričvršćenost potpetice (ISO/DIS 22650:2016)

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

prEN 1330-9 en

Non-destructive testing – Terminology – Part 9: Terms used in acoustic emission testing  
Nerazorno ispitivanje – Nazivlje – 9. dio: Nazivi koji se upotrebljavaju pri ispitivanju akustičkom emisijom

prEN ISO 20339 en

Non-destructive testing – Equipment for eddy current examination – Array probe characteristics and verification (ISO/DIS 20339:2015)  
Nerazorno ispitivanje – Oprema za ispitivanje vrtložnim strujama – Karakteristike i provjeravanje višepretvorničke fazno upravljane sonde (ISO/DIS 20339:2015)

## **HZN/TO 136, Namještaj**

prEN 16955 en

Hardware for furniture – Tapered pressure tubes for self-supporting gas springs for the height adjustment of seating – Test methods and requirements for strength and durability

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

prEN 1451-1 en

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

ISO 10468:2003/Amd 1:2010 en

Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the long-term specific ring creep stiffness under wet conditions and calculation of the wet creep factor  
Staklom ojačane duromerne (GRP) cijevi – Određivanje dugotrajne specifične obodne puzne krutosti i proračun faktora puzanja pri vlažnim uvjetima

ISO 10471:2003/Amd 1:2010 en

Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions  
Staklom ojačane duromerne (GRP) cijevi – Određivanje konačne dugotrajne savojne deformacije i konačnoga dugotrajnog relativnog obodnog progiba pri vlažnim uvjetima

EN ISO 15493:2003/prA1 en

Plastics piping systems for industrial applications – Acrylonitrile-butadiene-styrene (ABS), unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly(vinyl chloride) (PVC-C) – Specifications for components and the system – Metric series (ISO 15493:2003/DAmD 1:2015)  
Plastični cijevni sustavi za industrijske primjene – Akrilonitril-butadien-stiren (ABS) neomekšani poli(vinil-klorid) (PVC-U) i klorirani poli(vinil-klorid) (PVC-C) – Specifikacije za sastavnice i sustav – Metrički nizovi (ISO 15493:2003/DAmD 1:2015)

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

ISO 8672:2014 en

Air quality – Determination of the number concentration of airborne inorganic fibres by phase contrast optical microscopy  
– Membrane filter method  
Kvaliteta zraka – Određivanje brojčane koncentracije lebdećih anorganskih vlakana optičkom mikroskopijom u faznom kontrastu – Metoda membranskog filtra

prEN 16966:2016 en

Workplace exposure – Metrics to be used for the measurements of exposure to inhaled nanoparticles (nano-objects and nanostructured materials) such as mass concentration, number concentration and surface area concentration

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

FPrEN ISO 5667-14 en

Water quality – Sampling – Part 14: Guidance on quality assurance and quality control of environmental water sampling and handling (ISO 5667-14:2014)

Kvaliteta vode – Uzorkovanje – 14. dio: Upute za osiguravanje kvalitete i kontrolu kvalitete pri uzorkovanju i rukovanju uzorcima vode iz okoliša (ISO 5667-14:2014)

prEN ISO 5667-16 en

Water quality – Sampling – Part 16: Guidance on biotesting of samples (ISO/DIS 5667-16:2016)  
Kvaliteta vode – Uzorkovanje – 16. dio: Upute za biološko ispitivanje uzoraka (ISO/DIS 5667-16:2016)

EN ISO 9308-1:2014/prA1 en

Water quality – Enumeration of Escherichia coli and coliform bacteria – Part 1: Membrane filtration method for waters with low bacterial background flora (ISO 9308-1:2014/DAM 1:2016)  
Kvaliteta vode – Brojenje Escherichia coli i koliformnih bakterija – 1. dio: Metoda membranske filtracije za vode s niskom pozadinom bakterijske flore (ISO 9308-1:2014/DAM 1:2016)

prEN ISO 9696 en

Water quality – Measurement of gross alpha activity in non-saline water – Thick source method (ISO/DIS 9696:2015)  
Kvaliteta vode – Mjerenje ukupne alfa aktivnosti u slatkoj vodi – Metoda debelog izvora (ISO/DIS 9696:2015)

prEN ISO 10253 en

Water quality – Marine algal growth inhibition test with Skeletonema sp. and Phaeodactylum tricornutum (ISO/DIS 10253:2015)  
Kvaliteta vode – Ispitivanje inhibicije rasta morskih algi Skeletonema sp. i Phaeodactylum tricornutum (ISO/DIS 10253:2015)

FPrEN ISO 14189 en

Water quality – Enumeration of Clostridium perfringens – Method using membrane filtration (ISO 14189:2013)  
Kvaliteta vode – Brojenje Clostridium perfringens – Metoda s uporabom membranske filtracije (ISO 14189:2013)

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

FPrEN ISO 9241-920 en

Ergonomics of human-system interaction – Part 920: Guidance on tactile and haptic interactions (ISO 9241-920:2009)  
Ergonomija interakcije čovjek-sustav – 920. dio: Upute za taktilnu i haptičku interakciju (ISO 9241-920:2009)

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

prEN ISO 12569 en

Thermal performance of buildings and materials – Determination of specific airflow rate in buildings – Tracer gas dilution method (ISO/DIS 12569:2016)  
Toplinska svojstva zgrada i materijala – Određivanje specifične stope protoka zraka u zgradama. – Metoda s plinom kao indikatorom (ISO/DIS 12569:2016)

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

ISO 14132-1:2015 en

Optics and photonics – Vocabulary for telescopic systems – Part 1: General terms and alphabetical indexes of terms in ISO 14132  
Optika i fotonika – Terminološki rječnik naziva za dalekozorne sustave – 1. dio: Opći nazivi i abecedni popisi naziva u ISO 14132

ISO 14132-2:2015 en

Optics and photonics – Vocabulary for telescopic systems – Part 2: Terms for binoculars, monoculars and spotting scopes  
Optika i fotonika – Terminološki rječnik naziva za dalekozorne sustave – 2. dio: Nazivlje za dvoglede, durbine i dalekozore na stalku

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

prEN 81-21 en

Safety rules for the construction and installation of lifts – Lifts for the transport of persons and goods – Part 21: New passenger and goods passenger lifts in existing building  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Dizala za transport osoba i tereta – 21. dio: Nova osobna dizala i osobna teretna dizala u postojećim zgradama

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

FPrCEN ISO/TR 8124-8 en

Safety of toys – Part 8: Age determination guidelines (ISO/DTR 8124-8:2015)  
Sigurnost igračaka – 8. dio: Smjernice za utvrđivanje dobne skupine (ISO/DTR 8124-8:2015)

CEN/TR 16512:2015 en

Child use and care articles – Guidelines for the safety of children's slings  
Proizvodi za dojenčad i malu djecu – Smjernice za sigurnost marama za nošenje djece

CEN/TR 16918:2015 en

Safety of toys – Children's mouthing behaviour in contact with toys  
Sigurnost igračaka – Ponašanje djeteta s igračkama tijekom oralne faze razvoja

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

prEN 16907-1 en

Earthworks – Part 1: Principles and general rules  
Zemljani radovi – 1. dio: Načela i opća pravila

prEN 16907-6 en

Earthworks – Part 6: Land reclamation with dredged hydraulic fill  
Zemljani radovi – 6. dio: Uređenje zemljišta hidrauličkim nasipavanjem materijala dobivenog jaružanjem

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

prEN 16954 en

Agglomerated stone – Slabs and cut-to-size products for flooring and stairs (internal and external)  
Kameni aglomerat – Ploče i proizvodi izrađeni po mjeri za podove i stube (unutrašnje i vanjske)

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

FPrEN ISO 11073-10419 en

Health informatics – Personal health device communication – Part 10419: Device specialization – Insulin pump (ISO/IEEE FDIS 11073-10419:2015)

FPrEN ISO 11073-10424 en

Health informatics – Personal health device communication – Part 10424: Device Specialization – Sleep Apnoea Breathing Therapy Equipment (SABTE) (ISO/FDIS 11073-10424:2015)

FPrEN ISO 11073-10425 en

Health informatics – Personal health device communication – Part 10425: Device specialization – Continuous glucose monitor (CGM) (ISO/FDIS 11073-10425:2015)

FPrEN ISO 11073-20601 en

Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol (ISO/IEEE FDIS 11073-20601)  
Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 20601. dio: Profil aplikacije – Optimizirani protokol izmijene podataka (ISO/IEEE FDIS 11073-20601)

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

prEN 16956 en

Cosmetics – Analytical methods – HPLC/UV method for the identification and assay of hydroquinone, ethers of hydroquinone and corticosteroids in skin whitening cosmetic products

Kozmetika – Analitičke metode – HPLC/UV metoda za identifikaciju i određivanje sadržaja hidrokinona, etera hidrokinona i kortikosteroida u kozmetičkim proizvodima za izbjeljivanje kože

## **HZN/TO 219, Podne obloge**

prEN 16354 en

Laminate floor coverings – Underlays – Specification, requirements and test methods

## **HZN/TO 238, Čvrsta biogoriva**

prEN ISO 14780 en

Solid biofuels – Sample preparation (ISO/DIS 14780:2015)

prEN ISO 17225-8 en

Solid biofuels – Fuel specifications and classes – Part 8: Graded thermally treated and densified biomass fuels (ISO/DIS 17225-8:2016)

prEN ISO 18135 en

Solid Biofuels – Sampling (ISO/DIS 18135:2016)

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

FprEN 485-1 en

Aluminium and aluminium alloys – Sheet, strip and plate – Part 1: Technical conditions for inspection and delivery  
Aluminij i aluminijeve legure – Limovi, trake i ploče – 1. dio: Tehnički uvjeti za preuzimanje i isporuku

FprEN 485-2 en

Aluminium and aluminium alloys – Sheet, strip and plate – Part 2: Mechanical properties  
Aluminij i aluminijeve legure – Limovi, trake i ploče – 2. dio: Mehanička svojstva

FprEN 10027-1 en

Designation systems for steels – Part 1: Steel names  
Sustavi označivanja za čelike – 1. dio: Nazivi čelika

prEN 10210-1 en

Hot finished structural steel hollow sections – Part 1: General  
Toplo oblikovani šuplji čelični profili – 1. dio: Općenito

prEN 10210-2 en

Hot finished structural steel hollow sections – Part 2: Technical delivery conditions  
Toplo oblikovani šuplji čelični profili – 2. dio: Tehnički uvjeti isporuke

prEN 10210-3 en

Hot finished structural steel hollow sections – Part 3: Tolerances, dimensions and sectional properties  
Toplo oblikovani šuplji čelični profili – 3. dio: Dopuštena odstupanja, dimenzije i svojstva profila

prEN 10219-1 en

Cold formed welded structural steel hollow sections – Part 1: General  
Hladno oblikovani šuplji čelični profili – 1. dio: Općenito

prEN 10219-2 en

Cold formed welded structural steel hollow sections – Part 2: Technical delivery conditions  
Hladno oblikovani šuplji čelični profili – 2. dio: Tehnički uvjeti isporuke

prEN 10219-3 en

Cold formed welded structural steel hollow sections – Part 3: Tolerances, dimensions and sectional properties  
Hladno oblikovani šuplji čelični profili – 3. dio: Dopuštena odstupanja, dimenzije i svojstva profila

prEN 10247 en

Micrographic examination of the non-metallic inclusion content of steels using standard pictures  
Mikrografska ispitivanje sadržaja nemetalnih uključaka u čelicima pomoću normiranih slika

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

prEN ISO 19496-1 en

Vitreous and porcelain enamels – Terminology – Part 1: Terms and definitions (ISO/DIS 19496-1:2016)  
Staklasti i porcelanski emajli – Nazivlje – 1. dio: Nazivi i definicije (ISO/DIS 19496-1:2016)

prEN ISO 19496-2 en

Vitreous and porcelain enamels – Terminology – Part 2: Visual representations and descriptions (ISO/DIS 19496-2:2016)  
Staklasti i porcelanski emajli – Nazivlje – 2. dio: Vizualno predstavljanje i opisivanje (ISO/DIS 19496-2:2016)

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

prEN ISO 10855-1 en

Offshore containers and associated lifting sets – Part 1: Offshore container – Design, manufacture and marking (ISO/DIS 10855-1:2015)

prEN ISO 10855-2 en

Offshore containers and associated lifting sets – Part 2: Lifting sets – Design, manufacture and marking (ISO/DIS 10855-2:2015)

prEN ISO 10855-3 en

Offshore containers and associated lifting sets – Part 3: Periodic inspection, examination and testing (ISO/DIS 10855-3:2015)

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

EN ISO 8611-2:2012/FprA1 en

Pallets for materials handling – Flat pallets – Part 2: Performance requirements and selection of tests (ISO 8611-2:2011/FDAM 1:2015)  
Palete za rukovanje materijalima – Plošne palete – 2. dio: Izvedbeni zahtjevi i izbor načina ispitivanja (ISO 8611-2:2011/FDAM 1:2015)

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

prEN ISO 6416 en

Hydrometry – Measurement of discharge by the ultrasonic transit time (time of flight) method (ISO/DIS 6416:2015)

prEN ISO 80000-5 en

Quantities and units – Part 5: Thermodynamics (ISO/DIS 80000-5:2016)  
Veličine i jedinice – 5. dio: Termodinamika (ISO/DIS 80000-5:2016)

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

prEN 233 en

Wallcoverings in roll form – Specification for finished wallpapers, wall vinyls and plastics wallcoverings  
Zidni pokrovi u rolamama – Specifikacija za završne zidne pokrove od papira, vinila i plastike

FprEN 13915 en

Prefabricated gypsum plasterboard panels with a cellular paperboard core – Definitions, requirements and test methods  
Predgotovljeni zidni paneli od gipsanih ploča s jezgrom iz kartonskog sača – Definicije, zahtjevi i ispitne metode

FprEN 14209 en

Preformed plasterboard cornices – Definitions, requirements and test methods  
Predgotovljeni gipsani elementi – Definicije, zahtjevi i ispitne metode

FprEN 14353 en

Metal beads and feature profiles for use with gypsum plasterboards – Definitions, requirements and test methods  
Pomoći i dodatni metalni profili za uporabu s gipsanim pločama – Definicije, zahtjevi i metode ispitivanja

FprEN 14496 en

Gypsum based adhesives for thermal/acoustic insulation composite panels and gypsum boards – Definitions, requirements and test methods  
Ljepila na osnovi gipsa za toplinsko/zvučno izolacijske kompozitne panele i gipsane ploče – Definicije, zahtjevi i ispitne metode

prEN 14904 rev en  
Surfaces for sports areas – Indoor surfaces for multi-sports use – Specification  
Površine sportskih terena – Površine u zatvorenom prostoru za višenamjensku sportsku uporabu – Specifikacija

prEN 15102 en  
Decorative wallcoverings – Roll form

#### **HZN/TO 521, Usluge održavanja**

ISO/DIS 18480-1 en  
Facility management – Part 1: Terms and definitions

ISO/DIS 18480-2 en  
Facilities Management – Part 2: Guidance on strategic sourcing and the development of agreements

ISO 55000:2014 en  
Asset management – Overview, principles and terminology

ISO 55001:2014 en  
Asset management – Management systems – Requirements

ISO 55002:2014 en  
Asset management – Management systems – Guidelines for the application of ISO 55001

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

prEN ISO 13140-1 en  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO 13141 – Part 1: Test suite structure and test purposes (ISO/DIS 13140-1:2016)  
Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom ISO 13141 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/DIS 13140-1:2016)

prEN ISO 13143-1 en  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO 12813 – Part 1: Test suite structure and test purposes (ISO/DIS 13143-1:2016)  
Elektronička naplata – Procjena opreme u vozilu i na prometnici za utvrđivanje sukladnosti s normom ISO 12813 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/DIS 13143-1:2016)

prEN ISO 15005 en  
Road vehicles – Ergonomic aspects of transport information and control systems – Dialogue management principles and compliance procedures (ISO/DIS 15005:2016)  
Cestovna vozila – Ergonomski aspekti prometnih podataka i upravljačkih sustava – Načela vođenja dijaloga i postupci uskladišavanja (ISO/DIS 15005:2016)

prEN ISO 15008 en  
Road vehicles – Ergonomic aspects of transport information and control systems – Specifications and test procedures for in-vehicle visual presentation (ISO/DIS 15008:2016)  
Cestovna vozila – Ergonomski aspekti prometnih podataka i upravljačkih sustava – Specifikacije i ispitni postupci za vizualni prikaz u vozilu (ISO/DIS 15008:2016)

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

prEN 13303 en  
Bitumen and bituminous binders – Determination of the loss in mass after heating of industrial bitumen  
Bitumen i bitumenska veziva – Određivanje gubitka mase industrijskog bitumena nakon grijanja

prEN 13398 en  
Bitumen and bituminous binders – Determination of the elastic recovery of modified bitumen  
Bitumen i bitumenska veziva – Određivanje elastičnog povrata modificiranog bitumena

prEN 13399 en  
Bitumen and bituminous binders – Determination of storage stability of modified bitumen  
Bitumen i bitumenska veziva – Određivanje stabilnosti pri skladištenju modificiranog bitumena

prEN 13702 en  
Bitumen and bituminous binders – Determination of dynamic viscosity of bituminous binder by cone and plate method – Cone and plate method  
Bitumen i bitumenska veziva – Određivanje dinamičke viskoznosti modificiranog bitumena metodom stošca i ploče

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

prEN 13230-6 en  
Railway applications – Track – Concrete sleepers and bearers – Part 6: Design  
Željeznički sustav – Željeznički gornji ustroj – Betonski pragovi i nosači – 6. dio: Projektiranje

prEN 14478 en  
Railway applications – Braking – Generic vocabulary  
Željeznički sustav – Kočenje – Opći rječnik

prEN 15746-1 en  
Railway applications – Track – Road rail machines and associated equipment – Part 1: Technical requirements for travelling and working  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 1. dio: Tehnički zahtjevi za kretanje i rad

prEN 15746-2 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 2: General safety requirements  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 2. dio: Opći sigurnosni zahtjevi

prEN 15746-3 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 3: Technical requirements for running  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 3. dio: Tehnički zahtjevi za vožnju

prEN 15746-4 en  
Railway applications – Track – Road-rail machines and associated equipment – Part 4: Technical requirements for running; travelling and working on urban rail  
Željeznički sustav – Željeznički gornji ustroj – Cestovno-željeznički strojevi i pripadajuća oprema – 4. dio: Tehnički zahtjevi za vožnju, kretanje i rad na tračničkim sustavima javnoga gradskog prometa

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

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

prEN 16951-1 en  
Railway applications – Track – Noise barriers and related devices acting on airborne sound propagation – Procedures for assessing long term performance – Part 1: Acoustic characteristics  
Željeznički sustav – Željeznički gornji ustroj – Zvučne zapreke i odgovarajući uređaji koji djeluju na rasprostiranje zvuka zrakom – Postupci za procjenjivanje dugoročne učinkovitosti – 1. dio: Akustična svojstva

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

EN 13135:2013/prA1 en  
Cranes – Safety – Design – Requirements for equipment  
Granici – Sigurnost – Projektiranje – Zahtjevi za opremu

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

FprEN 1765 en  
Rubber hose assemblies for oil suction and discharge services – Specification for the assemblies  
Gumeni crijevni uređaji za usisavanje i istovar ulja – Specifikacija za uređaje

EN ISO 2078:1994/A1:2015 en  
Textile glass – Yarns – Designation (ISO 2078:1993/Amd 1:2015)  
Stakleni tekstil – Pređa – Označivanje (ISO 2078:1993/Amd 1:2015)

FprEN ISO 4892-3 en  
Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO/CDIS 4892-3:2015)  
Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 3. dio. Fluorescentne UV-svjetiljke (ISO/CDIS 4892-3:2015)

prEN ISO 5659-2 en  
Plastics – Smoke generation – Part 2: Determination of optical density by a single-chamber test (ISO/DIS 5659-2:2016)  
Plastika – Stvaranje dima – 2. dio: Određivanje optičke gustoće jednokomornim ispitivanjem (ISO/DIS 5659-2:2016)

FprEN ISO 5774 en  
Plastics hoses – Textile-reinforced types for compressed-air applications – Specification (ISO/CDIS 5774:2015)  
Plastična crijeva – Tekstilom ojačani tipovi za upotrebu pri djelovanju stlačenog zraka – Specifikacija (ISO/CDIS 5774:2015)

EN 14423:2013/prA1 en  
Clamp type coupling assemblies for use with steam hoses rated for pressures up to 18 bar  
Sklopovi spojki steznog tipa za upotrebu s crijevima za paru za tlakove do 18 bara

FprEN ISO 18752 en  
Rubber hoses and hose assemblies – Wire-or textile-reinforced single-pressure types for hydraulic applications – Specification (ISO 18752:2014)

## **HZN/TO 532, Dimnjaci**

prEN 16475-6 en  
Chimneys – Accessories – Part 6: Access components – Requirements and test methods

DIN 18160-5:2016 de  
Abgasanlagen – Teil 5: Einrichtungen für Schornsteinfegerarbeiten – Anforderungen, Planung und Ausführung  
Dimnjaci – 5. dio: Naprave za pristup dimnjaku – Zahtjevi, projektiranje i izvedba

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

prEN 12274-1 en  
Slurry surfacing – Test methods – Part 1: Sampling  
Tankslojne asfaltne prevlake – Metode ispitivanja – 1. dio: Uzorkovavanje

prEN 12274-2 en  
Slurry surfacing – Test methods – Part 2: Determination of residual binder content including preparation of samples  
Tankslojne asfaltne prevlake – Metode ispitivanja – 2. dio: Određivanje udjela zaostalog veziva uključujući pripremu uzorka

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

## **HZN/TO 534, Spremniči za teret**

FprEN ISO 17268 en  
Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2012)  
Prikupljući uređaji za punjenje gorivom terenskih vozila na tekući vodik (ISO 17268:2012)

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

EN 16361:2013/FprA1 en  
Power operated pedestrian doors – Product standard, performance characteristics – Pedestrian doorsets, other than swing type, initially designed for installation with power operation

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

FprEN ISO 3040 rev en  
Geometrical product specifications (GPS) – Dimensioning and tolerancing – Cones (ISO/CDIS 3040:2015)  
Geometrijske specifikacije proizvoda (GSP) – Kotiranje i tolerancije – Stošci (ISO/CDIS 3040:2015)

## **HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**

prEN 12098-1 en  
Controls for heating systems – Part 1: Control equipment for hot water heating systems – Modules M3-5, 6, 7, 8  
Upravljanje sustavima grijanja – 1. dio: Oprema za upravljanje sustavima toplovodnog grijanja – Moduli M3-5,6,7,8

prEN 12098-3 en  
Controls for heating systems – Part 3: Control equipment for electrical heating systems – Modules M3-5, 6, 7, 8  
Upravljanje sustavima grijanja – 3. dio: Oprema za upravljanje sustavima električnog grijanja – Moduli M3-5,6,7,8

prEN 12098-5 en  
Controls for heating systems – Part 5: Start-stop schedulers for heating systems – Modules M3-5, 6, 7, 8  
Upravljanje sustavima grijanja – 5. dio: Rasporred pokretanja i zaustavljanja sustava grijanja – Moduli M3-5,6,7,8

prEN 15232-1 en  
Energy performance of buildings – Part 1: Impact of Building Automation, Controls and Building Management – Modules M10-4, 5, 6, 7, 8, 9, 10  
Energijska svojstva zgrada – 1. dio: Utjecaj automatizacije zgrada, nadzor i upravljanje zgradama – Moduli M10-4, 5, 6, 7, 8, 9, 10

prEN 15500-1 en  
Control for heating; ventilating and air-conditioning applications – Part 1: Electronic individual zone control equipment – Modules M3-5, M4-5, M5-5  
Upravljanje uređajima za grijanje, ventilaciju i klimatizaciju – 1. dio: Električna oprema za upravljanje pojedinačnim zonama – Moduli M3-5,6,7,8

prEN 16946-1 en  
Inspection of Building Automation, Controls and Technical Building Management – Module M10-11  
Inspekcija automatizacije zgrada, nadzora i upravljanja zgradama – Moduli M10-11

prEN 16947-1 en  
Building Management System – Module M10-12  
Sustav upravljanja zgradama – Moduli M10-12

## **HZN/TO 544, Strojni elementi**

prEN 14399-7 en  
High-strength structural bolting assemblies for preloading – Part 7: System HR – Countersunk head bolt and nut assemblies  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 7. dio: Sustav HR – Spojevi vijka s upuštenom glavom i matice

prEN 14399-8 en  
High-strength structural bolting assemblies for preloading – Part 8: System HV – Hexagon fit bolt and nut assemblies  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 8. dio: Sustav HV – Spojevi dosjednog vijka sa šesterokutnom glavom i šesterokutne matice

prEN 14399-9 en  
High-strength structural bolting assemblies for preloading – Part 9: System HR or HV – Direct tension indicators for bolt and nut assemblies  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 9. dio: Sustav HR ili HV – Izravni indikatori opterećenja za spojeve vijka i matice

prEN 14399-10 en  
High-strength structural bolting assemblies for preloading – Part 10: System HRC – Bolt and nut assemblies with calibrated preload  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 10. dio: Sustav HRC – Spojevi vijka i matice s kalibriranim predopterećenjem

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

prEN 15759-2 en  
Conservation of cultural heritage – Indoor climate – Part 2:  
Ventilation to protect heritage buildings and collections

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

prEN 1406 en  
Chemicals used for treatment of water intended for human consumption – Modified starches  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Modificirani škrob

## **HZN/TO 551, Gradnja**

ISO 2394:2015 en  
General principles on reliability for structures  
Opća načela pouzdanosti konstrukcija

ISO 23469:2005 en  
Bases for design of structures – Seismic actions for designing geotechnical works  
Osnove projektiranja konstrukcija – Potresna djelovanja za projektiranje geotehničkih radova

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

prEN 15885 en  
Classification and characteristics of techniques for renovation, repair and replacement of drains and sewers  
Razredba i značajke tehnika za obnovu, popravak i zamjenu odvodnih i kanalizacijskih sustava

## **HZN/TO 557, Zaštitna odjeća**

prEN 342 en  
Protective clothing – Ensembles and garments for protection against cold  
Zaštitna odjeća – Kompleti i odjevni predmeti za zaštitu od hladnoće

prEN 14058 en  
Protective clothing – Garments for protection against cool environments  
Zaštitna odjeća – Odjevni predmeti za zaštitu od hladne okoline

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

prEN ISO 5210 en  
Industrial valves – Multi-turn valve actuator attachments (ISO/DIS 5210:2016)

prEN ISO 5211 en  
Industrial valves – Part-turn actuator attachments (ISO/DIS 5211:2016)

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

FprEN ISO 105-D02 en  
Textiles – Tests for colour fastness – Part D02: Colour fastness to rubbing: Organic solvents (ISO/FDIS 105-D02:2016)  
Tekstil – Ispitivanje postojanosti obojenja – Dio D02: Postojanost obojenja na trljanje: Organska otapala (ISO/FDIS 105-D02:2016)

FprEN ISO 105-X12 en  
Textiles – Tests for colour fastness – Part X12: Colour fastness to rubbing (ISO/FDIS 105-X12: 2016)  
Tekstil – Ispitivanje postojanosti obojenja – Dio X12: Postojanost obojenja na trljanje (ISO/FDIS 105-X12: 2016)

FprEN ISO 105-X16 en  
Textiles – Tests for colour fastness – Part X16: Colour fastness to rubbing – Small areas (ISO/FDIS 105-X16:2016)  
Tekstil – Ispitivanje postojanosti obojenja – Dio X16: Postojanost obojenja na trljanje – Male površine (ISO/FDIS 105-X16:2016)

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

prEN ISO 10156 en  
Gas cylinders – Gases and gas mixtures – Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets (ISO/DIS 10156:2016)  
Plinske boce – Plinovi i mješavine plinova – Određivanje zapaljivosti i oksidacijskih svojstava za odabir priključaka za ventile na bocama (ISO/DIS 10156:2016)

EN ISO 10297:2014/prA1 en

Gas cylinders – Cylinder valves – Specification and type testing – Amendment 1: Pressure drums and tubes (ISO 10297:2014/DAM 1:2016)

Plinske boce – Ventili boca – Specifikacija i tipno ispitivanje – Amandman 1: Tlačni spremnici i cijevi (ISO 10297:2014/DAM 1:2016)

EN 13480-4:2012/FprA3 en

Metallic industrial piping – Part 4: Fabrication and installation Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja

EN 13480-6:2012/prA1 en

Metallic industrial piping – Part 6: Additional requirements for buried piping Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode

EN ISO 14246:2014/prA1 en

Gas cylinders – Cylinder valves – Manufacturing tests and examinations (ISO 14246:2014/DAM 1:2016)  
Plinske boce – Ventili boca – Ispitivanja i pregledi u proizvodnji (ISO 14246:2014/DAM 1:2016)

prEN ISO 15996 en

Gas cylinders – Residual pressure valves – Specification and type testing of cylinder valves incorporating residual pressure devices (ISO/DIS 15996:2016)

Plinske boce – Ventili ostatnoga tlaka – Specifikacija i tipno ispitivanje ventila za boce uključujući uređaje za ostatni tlak (ISO/DIS 15996:2016)

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

prEN 1612 en

Plastics and rubber machines – Reaction moulding machines and plants – Safety requirements  
Strojevi za plastiku i gumu – Strojevi za oblikovanje kalupljenjem – Sigurnosni zahtjevi

prEN 12301 en

Plastics and rubber machines – Calenders – Safety requirements  
Strojevi za gumu i plastiku – Strojevi za izradu folija – Sigurnosni zahtjevi

## **HZN/TO 563, Sigurnost strojeva**

FprEN 16811-1 en

Winter service equipment and products – De-icing agents – Part 1: Sodium chloride – Requirements and test methods  
Oprema i proizvodi za zimsko održavanje cesta – Sredstva za odleđivanje – 1. dio: Natrijev klorid – Zahtjevi i metode ispitivanja

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

FprEN ISO 662 en

Animal and vegetable fats and oils – Determination of moisture and volatile matter content (ISO/FDIS 662:2016)  
Životinjske i biljne masti i ulja – Određivanje količine vode i hlapijivih tvari (ISO/FDIS 662:2016)

EN ISO 734:2015 en

Oilseed meals – Determination of oil content – Extraction method with hexane (or light petroleum) (ISO 734:2015)  
Uljane pogače i sačme – Određivanje količine ulja – Metoda ekstrakcije heksanom (ili petroleterom) (ISO 734:2015)

FprEN ISO 6885 en

Animal and vegetable fats and oils – Determination of anisidine value (ISO/FDIS 6885:2015)  
Životinjske i biljne masti i ulja – Određivanje anisidinskog broja (ISO/FDIS 6885:2015)

FprEN ISO 6886 en

Animal and vegetable fats and oils – Determination of oxidative stability (accelerated oxidation test) (ISO/FDIS 6886:2015)  
Životinjske i biljne masti i ulja – Određivanje oksidativne stabilnosti (ubrzani test oksidacije) (ISO/FDIS 6886:2015)

FprEN ISO 9936 en

Animal and vegetable fats and oils – Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography (ISO/FDIS 9936:2015)

Životinjske i biljne masti i ulja – Određivanje sadržaja tokoferoila i tokotrienola tekućinskom kromatografijom visoke djelotvornosti (ISO/FDIS 9936:2015)

FPrEN ISO 14244 en Oilseed meals – Determination of soluble proteins in potassium hydroxide solution (ISO 14244:2014) Ulijane pogače i sačme – Određivanje topljivih proteina u otopini kalijeva hidroksida (ISO 14244:2014)	ISO 9119:1990 en Cross-country skis – Binding mounting area – Requirements and test methods Skije za skijaško trčanje – Mjesto montaže vezova – Zahtjevi i metode ispitivanja
FPrEN ISO 15753 en Animal and vegetable fats and oils – Determination of polycyclic aromatic hydrocarbons (ISO/FDIS 15753:2015) Zivotinske i biljne masti i ulja – Određivanje policikličkih aromatskih ugljikovodika (ISO/FDIS 15753:2015)	ISO 9465:2012 en Alpine ski-bindings – Lateral release under impact loading – Test method Skijaški vezovi – Bočno otpuštanje pod opterećenjem udarca – Metoda ispitivanja
EN ISO 22630:2015 en Oilseed meals – Determination of oil content – Rapid extraction method (ISO 22630:2015) Ulijane pogače i sačme – Određivanje udjela ulja – Metoda brze ekstrakcije (ISO 22630:2015)	ISO 9523:2015 en Touring ski-boots for adults – Interface with touring ski-bindings – Requirements and test methods Skijaške cipele (pancerice) za turno skijanje za odrasle – Međusklop s vezovima za turno skijanje – Zahtjevi i metode ispitivanja
<b>HZN/TO 569, Hrana za životinje</b>	ISO 10228:2011 en Cross-country skis – Binding mounting area – Requirements for test screws Skije za skijaško trčanje – Mjesto montaže vezova – Zahtjevi za ispitne vijke
prEN ISO 12099 en Animal feeding stuffs, cereals and milled cereal products – Guidelines for the application of near infrared spectrometry (ISO/DIS 12099:2016) Hrana za životinje, žitarice i proizvodi od mljevenih žitarica – Upute za primjenu bliske infracrvene spektrometrije (ISO/DIS 12099:2016)	ISO 10958-1:1998 en Snowboards – Binding mounting area – Part 1: Requirements and test methods for snowboards without inserts Daskanje na snijegu (snowboard) – Mjesto montaže vezova – 1. dio: Zahtjevi i metode ispitivanja za daske za snijeg (snowboard) bez umetaka
<b>HZN/TO 571, Sport, igrališta i ostali rekreativski sadržaji i oprema</b>	ISO 10958-2:2015 en Snowboards – Binding mounting area – Part 2: Requirements and test methods for snowboards with inserts Daskanje na snijegu (snowboard) – Mjesto montaže vezova – 2. dio: Zahtjevi i metode ispitivanja za daske za snijeg (snowboard) s umetcima
prEN 1176-3 rev en Playground equipment and surfacing – Part 3: Additional specific safety requirements Oprema i podloge za igrališta – 3. dio: Dodatni posebni sigurnosni zahtjevi za tobogane	ISO 11087:2015 en Alpine ski-bindings – Retention devices – Requirements and test methods Vezovi za skije za alpsko skijanje – Uređaji za zadržavanje – Zahtjevi i metode ispitivanja
ISO 6265:2013 en Alpine skis – Determination of deformation load and breaking load Skije za alpsko skijanje – Određivanje opterećenja deformacije i opterećenja pucanja	ISO 11088:2015 en Assembly, adjustment and inspection of an alpine ski/binding/boot (S-B-B) system Montiranje, prilagodba i pregled sustava skija-vez-skijaška cipela (S-B-B) u alpskom skijanju
ISO 7138:1984 en Cross-country skis – Determination of mass and location of balance point Skije za skijaško trčanje – Određivanje mase i položaja točke ravnoteže	ISO 11110:2015 en Winter-sports equipment – Test devices for the setting of the functional unit ski/boot/binding – Requirements and tests Zimska sportska oprema – Ispitni uređaji za stavljanje cjeline skija-skijaška cipela-vez u funkciju – Zahtjevi i ispitivanja
ISO 7139:1984 en Cross-country skis – Determination of elastic properties Skije za skijaško trčanje – Određivanje elastičnih svojstava	ISO 11497:1998 en Telemark skis and bindings – Binding mounting area – Requirements and test methods Skije za telemark skijanje i vezovi – Mjesto montaže vezova – Zahtjevi i metode ispitivanja
ISO 7140:1985 en Cross-country skis – Determination of dynamic performance – Laboratory measurement method Skije za skijaško trčanje – Određivanje dinamičkih značajki – Laboratorijska mjerna metoda	ISO 11634:1996 en Snowboard-boots – Interface with snowboard bindings Čizme za daskanje na snijegu (snowboard) – Međusklop s vezovima na dasci za snijeg (snowboard)
ISO 7794:2011 en Cross-country skis – Ski-binding screws – Requirements Skije za skijaško trčanje – Vijci na skijaškim vezovima – Zahtjevi	ISO 11634:1996/Cor 1:2007 en Snowboard-boots – Interface with snowboard bindings Čizme za daskanje na snijegu (snowboard) – Međusklop s vezovima na dasci za snijeg (snowboard)
ISO 7795:2011 en Cross-country skis – Ski-binding screws – Test methods Skije za skijaško trčanje – Vijci na skijaškim vezovima – Metode ispitivanja	ISO 13992:2014 en Alpine touring ski-bindings – Requirements and test methods Skijaški vezovi za alpsko turno skijanje – Zahtjevi i metode ispitivanja
ISO 7796:1985 en Skis – Geometry – Measuring conditions Skije – Geometrija skija – Uvjeti mjerena	ISO 13993:2001 en Rental ski shop practice – Sampling and inspection of complete and incomplete alpine ski-binding-boot systems in rental applications Praksa iznajmljivanja skijaške opreme – Uzorkovanje i pregled potpunih i nepotpunih sustava skija-vez-skijaška cipela u alpskom skijanju pri iznajmljivanju
ISO 7797:1985 en Cross-country skis – Determination of breaking load and deflection at break with quasistatic load Skije za skijaško trčanje – Određivanje opterećenja loma i otklon kod loma s kvazistatičkim opterećenjem	ISO 14359:1997 en Winter-sports equipment – Marking of parts made of polymer materials Zimska sportska oprema – Označivanje dijelova izrađenih od polimernih materijala
ISO 7798:1984 en Cross-country skis – Determination of fatigue indexes – Cyclic loading test Skije za skijaško trčanje – Određivanje indeksa zamora materijala – Test cikličkog opterećenja	
ISO 8061:2015 en Alpine ski-bindings – Selection of release torque values Vezovi za skije za alpsko skijanje – Odabir vrijednosti momenta otpuštanja	

ISO 14573:2002 en  
Snowboard strap bindings for soft boots – Requirements and test methods  
Mekani (strap) vezovi za daske za snijeg (snowboard) za mekane cizme – Zahtjevi i metode ispitivanja

ISO 14790:2005 en  
Snowboard plate-bindings – Requirements and test methods  
Tvrdi (plate) vezovi za daske za snijeg (snowboard) – Zahtjevi i metode ispitivanja

ISO 14790:2005/Cor 1:2007 en  
Snowboard plate-bindings – Requirements and test methods  
Tvrdi (plate) vezovi za daske za snijeg (snowboard) – Zahtjevi i metode ispitivanja

ISO 15344:2005 en  
Snowboard step-in bindings – Requirements and test methods  
Step-in vezovi za daske za snijeg (snowboard) – Zahtjevi i metode ispitivanja

ISO 22264:2006 en  
Telemark ski-boots for adults – Interface with Telemark ski-bindings – Requirements and test methods  
Skijaške cipele za telemark skijanje za odrasle – Povezanost sa skijaškim vezovima za telemark skijanje – Zahtjevi i metode ispitivanja

#### **HN/T0 573, Elektronički račun**

prEN 16931 en  
Electronic invoicing – Semantic data model of the core elements of an electronic invoice

#### **HN/T0 E9, Električna oprema za željeznicu**

prEN 50562:2016 en  
Railway applications – Fixed installations – Process, protective measures and demonstration of safety for electric traction systems

FprEN 50592 en  
Railway applications – Testing of rolling stock for electromagnetic compatibility with axle counters

FprEN 62924:2016 en  
Railway applications – Fixed installations – Stationary energy storage system for DC traction systems (IEC 62924:201X)

#### **HN/T0 E11, Nadzemni vodovi**

EN 50341-2-4:2016 en  
Overhead electrical lines exceeding AC 1 kV – Part 2-4: National Normative Aspects (NNA) for Germany (based on EN 50341-1:2012)

#### **HN/T0 E14, Energetski transformatori**

EN 50588-1:2015/FprA1:2016 en  
Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements  
Trofazni transformatori srednjeg napona, 50 Hz, najvećeg napona opreme do 36 kV – 1. dio: Opći zahtjevi

EN 50629:2015/FprA1:2016 en  
Energy performance of large power transformers ( $U_m > 36 \text{ kV}$  or  $S_r \geq 40 \text{ MVA}$ )  
Energetske značajke velikih energetskih transformatora najvišeg napona većeg od 36 kV ili nazivne snage veće ili jednake 40 MVA

#### **HN/T0 E20, Električni kabeli**

EN 50399:2011/prA1:2015 en  
Common test methods for cables under fire conditions – Heat release and smoke production measurement on cables during flame spread test – Test apparatus, procedures, results  
Opće metode ispitivanje kabela pod djelovanjem vatre – Mjerenje otpuštanja topline i stvaranje dima na kabelima pri ispitivanju širenjem plamena – Ispitni uređaji, postupci, rezultati

EN 50575:2014/FprA1:2016 en  
Power, control and communication cables – Cables for general applications in construction works subject to reaction to fire requirements  
Energetski, upravljački i komunikacijski kabeli – Kabeli za opću uporabu pri gradnji koji podliježu zahtjevima zaštite od požara

EN 60332-1-2:2004/prAA:2016 en  
Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame

Ispitivanje električnih i svjetlovodnih kabela pod djelovanjem vatre – Dio 1-2: Ispitivanje na okomito širenje plamena za jednožilne izolirane vodove ili kable – Postupak za pripremu kisika i gorivog plina za snagu plamena od 1kW

EN 60811-201:2012/FprA1:2016 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness (IEC 60811-201:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 201. dio: Općenita ispitivanja – Ispitivanje debljine izolacije (IEC 60811-201:2012/am1:201X)

EN 60811-202:2012/FprA1 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath (IEC 60811-202:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 202. dio: Općenita ispitivanja – Ispitivanje debljine nemetalnog plašta (IEC 60811-202:2012/am1:201X)

EN 60811-401:2012/FprA1 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 401: Miscellaneous tests – Thermal ageing methods – Ageing in an air oven (IEC 60811-401:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 401. dio: Različita ispitivanja – Toplinske metode starenja – Starenje u zračnoj pećnici (IEC 60811-401:2012/am1:201X)

EN 60811-410:2012/FprA1 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 410: Miscellaneous tests – Test method for copper-catalyzed oxidative degradation of polyolefin insulated conductors (IEC 60811-410:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 410. dio: Različita ispitivanja – Metoda ispitivanja oksidacijske degradacije uz katalitičko djelovanje bakra za vodiče izolirane poliolefinom (IEC 60811-410:2012/am1:201X)

EN 60811-508:2012/FprA1 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 508: Mechanical tests – Pressure test at high temperature for insulation and sheaths (IEC 60811-508:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 508. dio: Mehanička ispitivanja – Ispitivanje na tlak kod visokih temperatura za izolacije i plašteve (IEC 60811-508:2012/am1:201X)

EN 60811-509:2012/FprA1 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 509: Mechanical tests – Test for resistance of insulations and sheaths to cracking (heat shock test) (IEC 60811-509:2012/am1:201X)  
Električni i svjetlovodni kabeli – Metode ispitivanja za nemetalne materijale – 509. dio: Mehanička ispitivanja – Ispitivanje otpornosti izolacija i plašteva na pucanje (toplinski udar) (IEC 60811-509:2012/am1:201X)

EN 60811-511:2012/FprA1:2016 en  
Electric and optical fibre cables – Test methods for non-metallic materials – Part 511: Mechanical tests – Measurement of the melt flow index of polyethylene and polypropylene compounds (IEC 60811-511:2012/am1:201X)

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

prEN ISO/IEC 80079-20-1 en  
Explosive atmospheres – Part 20-1: Material characteristics for gas and vapour classification – Test methods and data (ISO/IEC/DIS 80079-20-1:2015)

#### **HN/T0 E34, Žarulje, svjetiljke i pripadna oprema**

EN 60598-1:2015/FprA1:2016 en  
Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/am1:201X)  
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (IEC 60598-1:2014/am1:201X)

FprEN 60598-2-17:2016 en  
Luminaires – Part 2-17: Particular requirements – Luminaires for stage lighting, television and film studios (outdoor and indoor) (IEC 60598-2-17:201X)

FprEN 60598-2-4:2016 en  
Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaires (IEC 60598-2-4:201X)  
Svjetiljke – 2. dio: Posebni zahtjevi – 4. poglavljje: Prijenosne svjetiljke za opću uporabu (IEC 60598-2-4:201X)

EN 62035:2014/FprA1:2016 en  
Discharge lamps (excluding fluorescent lamps) – Safety specifications (IEC 62035:2014/am1:201X)  
Zarulje s izbojem (osim fluorescentnih cijevi) – Sigurnosni zahtjevi (IEC 62035:2014/am1:201X)

FprEN 62386-301:2016 en  
Digital addressable lighting interface – Part 301: Particular requirements – Input devices – Push buttons (IEC 62386-301:201X)

FprEN 62386-302:2016 en  
Digital addressable lighting interface – Part 302: Particular requirements – Input devices – Absolute input devices (IEC 62386-302:201X)

FprEN 62386-303:2016 en  
Digital addressable lighting interface – Part 303: Particular requirements – Input devices – Occupancy sensor (IEC 62386-303:201X)

FprEN 62386-304:2016 en  
Digital addressable lighting interface – Part 304: Particular requirements – Input devices – Light sensor (IEC 62386-304:201X)

EN 62532:2011/FprA1:2015 en  
Fluorescent induction lamps – Safety specifications  
Indukcijske fluorescentne žarulje – Sigurnosni zahtjevi

EN 62612:2013/prAA:2016 en  
Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements  
Žarulje sa svjetlećim diodama s vlastitom predspojnom napravom za opću uporabu u rasvjeti s naponom napajanja većim od 50 V – Izvedbeni zahtjevi

## **HZN/TO E55, Žice za namote**

FprEN 60317-67:2016 en  
Specifications for particular types of winding wires – Part 67: Polyvinyl acetal enamelled rectangular aluminium wire, class 105 (IEC 60317-67:201X)  
Specifikacije pojedinih vrsta žica za namote – 67. dio: Polivinil acetalom lakirana profilna aluminijска žica, razreda 105 (IEC 60317-67:201X)

FprEN 60317-68:2016 en  
Specifications for particular types of winding wires – Part 68: Polyvinyl acetal enamelled rectangular aluminium wire, class 120 (IEC 60317-68:201X)  
Specifikacije pojedinih vrsta žica za namote – 68. dio: Polivinil acetalom lakirana profilna aluminijiska žica, razreda 120 (IEC 60317-68:201X)

FprEN 60317-69:2016 en  
Specifications for particular types of winding wires – Part 69: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular aluminium wire, class 220 (IEC 60317-69:201X)  
Specifikacije pojedinih vrsta žica za namote – 68. dio: Poliesterom ili poliesterimidom lakirana, prekrivena poliamid-imidom, profilna aluminijiska žica, razreda 220 (IEC 60317-69:201X)

FprEN 62446-1:2015 en  
Grid connected PV systems – Part 1: Requirements for system documentation, commissioning tests and inspection (IEC 62446-1:2016)  
Mrežom spojeni PV sustavi – 1. dio: Zahtjevi za dokumentaciju sustava, puštanje u pogon, ispitivanja i inspekciju (IEC 62446-1:2016)

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

FprEN 61709:2015 en  
Electric components – Reliability – Reference conditions for failure rates and stress models for conversion (IEC 61709:201X)  
Električne komponente – Pouzdanost – Referentni uvjeti za učestalosti kvara i modele naprezanja (IEC 61709:201X)

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

EN 61850-7-4:2010/FprA1:2016 en  
Communication networks and systems for power utility automation – Part 7-4: Basic communication structure  
– Compatible logical node classes and data object classes (IEC 61850-7-4:2010/am1:201X)  
Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – Dio 7-4: Osnovna komunikacijska struktura – Klase kompatibilnih logičkih čvorista i klase podatkovnih objekata (IEC 61850-7-4:2010/am1:201X)

FprEN 61968-3:2016 en  
Application integration at electric utilities – System interfaces for distribution management – Part 3: Interface for network operations (IEC 61968-3:201X)  
Integracija aplikacija u elektroprivredama – Sučelja za sustave upravljanja u distribuciji – 3. dio: Sučelja za upravljanje distribucijskom mrežom (IEC 61968-3:201X)

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

FprEN 50193-1:2016 en  
Electric instantaneous water heaters – Part 1: General requirements  
Električne protočne grijalice vode – 1. dio: Opći zahtjevi

prEN 50242:2015 en  
Electric dishwashers for household use – Test methods for measuring the performance  
Električne perilice posuđa za kućansku uporabu – Ispitne metode za mjerjenje radnih značajaka

EN 60705:2015 en  
Household microwave ovens – Methods for measuring performance (IEC 60705:2010+am1:2014)  
Kućanske mikrovalne pećnice – Ispitne metode za mjerjenje radnih značajaka (IEC 60705:2010+am1:2014)

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

EN 60335-2-10:2003/prAA:2015 en  
Household and similar electrical appliances – Safety – Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines  
Kućanski i slični električni aparati – Sigurnost – Dio 2-10: Posebni zahtjevi za strojeve za suhu i mokru obradu poda

FprEN 60335-2-105:2015 en  
Household and similar electrical appliances – Safety – Part 2-105: Particular requirements for multifunctional shower cabinets (IEC 60335-2-105:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-105: Posebni zahtjevi za višenamjenske tuševe (IEC 60335-2-105:201X)

FprEN 60335-2-15:2015/FprAA:2015 en  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids  
Kućanski i slični električni aparati – Sigurnost – Dio 2-15: Posebni zahtjevi za aparate za grijanje tekućina

EN 60335-2-16:2003/FprAA:2015 en  
Household and similar electrical appliances – Safety – Part 2-16: Particular requirements for food waste disposers  
Kućanski i slični električni aparati – Sigurnost – Dio 2-16: Posebni zahtjevi za drobilice otpadaka hrane

EN 60335-2-28:2003/FprAA:2015 en  
Household and similar electrical appliances – Safety – Part 2-28: Particular requirements for sewing machines  
Kućanski i slični električni aparati – Sigurnost – Dio 2-28: Posebni zahtjevi za šivalice

EN 60335-2-29:2004/FprAA:2015 en  
Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers  
Kućanski i slični električni aparati – Sigurnost – Dio 2-29: Posebni zahtjevi za punilice baterija

EN 60335-2-40:2015/FprA1:2016 en  
Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:2013/am1:201X {fragment 1})  
Kućanski i slični električni aparati – Sigurnost – Dio 2-40: Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:2013/am1:201X {fragment 1})

- EN 60335-2-40:2015/A1:2015 (fragment 2) en  
 Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:2013/am1:201X {fragment 2})  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-40:  
 Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:2013/am1:201X {fragment 2})
- EN 60335-2-40:2015/FprA1:2015 {fragment 3} en  
 Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:2013/am1:201X (fragment 3))  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-40:  
 Posebni zahtjevi za dizalice topline, klima-aparate i sušila zraka (IEC 60335-2-40:2013/am1:201X (fragment 3))
- EN 60335-2-4:2010/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-4:  
 Posebni zahtjevi za centrifuge rublja
- EN 60335-2-53:2011/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-53: Particular requirements for sauna heating appliances and infrared cabins  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-53:  
 Posebni zahtjevi za grijalice sauna i kabine s infracrvenim grijanjem
- EN 60335-2-55:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-55:  
 Posebni zahtjevi aparata za akvarije i vrtna jezera
- EN 60335-2-60:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-60: Particular requirements for whirlpool baths and whirlpool spas  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-60:  
 Posebni zahtjevi za vrložne kupke
- EN 60335-2-61:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-61: Particular requirements for thermal-storage room heaters  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-61:  
 Posebni zahtjevi za termoakumulacijske peći
- EN 60335-2-65:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-65:  
 Posebni zahtjevi aparata za pročišćavanje zraka
- EN 60335-2-68:2012/FprA1:2014 en  
 Household and similar electrical appliances – Safety – Part 2-68: Particular requirements for spray extraction machines for commercial use (IEC 60335-2-68:2012/am1:201X)  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-68:  
 Posebni zahtjevi za komercijalne čistilice rošenjem (IEC 60335-2-68:2012/am1:201X)
- EN 60335-2-73:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-73: Particular requirements for fixed immersion heaters  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-73:  
 Posebni zahtjevi za učvršćena uronjena grijala
- EN 60335-2-74:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-74: Particular requirements for portable immersion heaters  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-74:  
 Posebni zahtjevi za pomična uronjiva grijala
- EN 60335-2-78:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-78: Particular requirements for outdoor barbecues  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-78:  
 Posebni zahtjevi za zračeće roštilje za uporabu na otvorenom
- EN 60335-2-84:2003/A2:2014/FprAA:2014 en  
 Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-84:  
 Posebni zahtjevi za zahode
- EN 60335-2-85:2003/FprAA:2015 en  
 Household and similar electrical appliances – Safety – Part 2-85: Particular requirements for fabric steamers  
 Kućanski i slični električni aparati – Sigurnost – Dio 2-85:  
 Posebni zahtjevi za parne aparate za tkanine
- HZN/TO E62, Električna oprema u medicinskoj praksi**
- FprEN 60601-2-2:2016 en  
 Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories (IEC 60601-2-2:201X)  
 Medicinski električni uređaji – Dio 2-2: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke visokofrekvenčnih kirurških uređaja i visokofrekvenčnih kirurških pribora (IEC 60601-2-2:201X)
- EN 60601-2-20:2009/prA1 en  
 Medical electrical equipment – Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (IEC 60601-2-20:2009/am1:2015)  
 Medicinski električni uređaji – Dio 2-20: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke prijevoznih inkubatora za novorođenčad (IEC 60601-2-20:2009/am1:2015)
- HZN/TO E64, Električne instalacije i zaštita od električnog udara**
- HD 60364-5-53:2015 en  
 Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear  
 Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradnja električne opreme – Sklopni i upravljački uređaji
- HD 60364-5-557:2013/A11:2016 en  
 Low-voltage electrical installations – Part 5-557: Selection and erection of electrical equipment – Auxiliary circuits  
 Niskonaponske električne instalacije – Dio 5-557: Odabir i ugradnja električne opreme – Pomoćni strujni krugovi
- HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa**
- FprEN 61010-2-201:2016 en  
 Safety requirements for electrical equipment for measurement; control and laboratory use – Part 2-201: Particular requirements for control equipment (IEC 61010-2-201:201X)  
 Sigurnosni zahtjevi za mjeru, upravljačku i laboratorijsku električnu opremu – Dio 2-201: Posebni zahtjevi za upravljačku opremu (IEC 61010-2-201:201X)
- FprEN 61131-2:2016 en  
 Programmable controllers – Part 2: Equipment requirements and tests (IEC 61131-2:201X)  
 Programirljivi regulatori – 2. dio: Zahtjevi na opremu i ispitivanje (IEC 61131-2:201X)
- FprEN 62657-1:2016 en  
 Industrial communication networks – Wireless communication networks – Part 1: Wireless communication requirements and spectrum considerations (IEC 62657-1:201X)  
 Industrijske komunikacijske mreže – Bežična komunikacijska mreža – 1. dio: Zahtjevi za bežičnu komunikaciju i razmatranja spektra (IEC 62657-1:201X)
- FprEN 62657-2:2016 en  
 Industrial communication networks – Wireless communication networks – Part 2: Coexistence management (IEC 62657-2:201X)  
 Industrijske komunikacijske mreže – Bežična komunikacijska mreža – 2. dio: Upravljanje koegzistencijom (IEC 62657-2:201X)
- HZN/TO E72, Naprave za automatsko upravljanje u kućanstvu**
- FprEN 60730-2-13:2015 en  
 Automatic electrical controls – Part 2-13: Particular requirements for humidity sensing controls (IEC 60730-2-13:201X)  
 Električne naprave za automatsko upravljanje – Dio 2-13:  
 Posebni zahtjevi za električne regulatore vlažnosti (IEC 60730-2-13:201X)

FPrEN 60730-2-14:2015 en  
Automatic electrical controls – Part 2-14: Particular requirements for electric actuators (IEC 60730-2-14:201X)  
Električne naprave za automatsko upravljanje – Dio 2-14:  
Posebni zahtjevi za električne izvršne članove (aktuatore) (IEC 60730-2-14:201X)

#### **HZN/TO E78, Rad pod naponom**

FPrEN 60900:2016 en  
Live working – Hand tools for use up to 1 000 V a.c. and 1 500 V d.c.  
Rad pod naponom – Ručni alati za rad pod naponom do 1000 V izmjenično i 1500 V istosmjerno

#### **HZN/TO E79, Alarmni sustavi**

EN 50131-2-7-1:2012/FPrA2:2015 en  
Alarm systems – Intrusion and hold-up systems – Part 2-7-1:  
Intrusion detectors – Glass break detectors (acoustic)  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-7-1: Protuprovalni detektori – Detektori loma stakla (akustički)

EN 50131-2-7-2:2012/FPrA2:2015 en  
Alarm systems – Intrusion and hold-up systems – Part 2-7-2:  
Intrusion detectors – Glass break detectors (passive)  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-7-2: Protuprovalni detektori – Detektori loma stakla (pasivni)

EN 50131-2-7-3:2012/FPrA2:2015 en  
Alarm systems – Intrusion and hold-up systems – Part 2-7-3:  
Intrusion detectors – Glass break detectors (active)  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-7-3: Protuprovalni detektori – Detektori loma stakla (aktivni)

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

FPrEN 62940:2016 en  
Maritime navigation and radiocommunication equipment equipment and systems – Integrated communication system (ICS) – Operational and performance requirements, methods of testing and required test results (IEC 62940:201X)  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Integrirani komunikacijski sustav (ICS) – Radni i izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62940:201X)

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

FPrEN 62974-1:2016 en  
Monitoring and measuring systems used for data collection, gathering and analysis – Part 1: Device requirements (IEC 62974-1:201X)  
Nadzor i mjerjenje sustava koji se upotrebljavaju za prikupljanje podataka, grupiranje i analize – 1. dio: Zahtjevi za uređaj (IEC 62974-1:201X)

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

FPrEN 62680-1-3:2016 en  
Universal Serial Bus interfaces for data and power – Part 1-3:  
Universal Serial Bus interfaces – common components – Universal Serial Bus Type-CTM Cable and Connector Specification, Revision 1.1 (IEC 62680-1-3:201X)

FPrEN 62680-3-1:2016 en  
Universal Serial Bus interfaces for data and power – Part 3-1:  
Universal Serial Bus 3.1 Specification (IEC 62680-3-1:201X)

FPrEN 62827-3:2016 en  
Wireless Power Transfer – Management – Part 1: Multiple sources control management (TA15) (IEC 62827-3:201X)

FPrEN 62943:2016 en  
Visible light beacon system for multimedia applications (IEC 62943:201X)

FPrEN 63002:2016 en  
Identification and communication interoperability method for external power supplies used with portable computing devices (TA 14) (IEC 63002:201X)

FPrEN 63035:2016 en  
MIDI (Musical Instrument Digital Interface) specification 1.0 (Abridged edition, 2015) (IEC 63035:201X)

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

FPrEN 62704-1:2016 en  
Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz – 6 GHz – Part 1: General Requirements for using the Finite Difference Time Domain (FDTD) Method for SAR Calculations (IEC/IEEE 62704-1:201X)

FPrEN 62704-2:2015 en  
Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz – 6 GHz – Part 2: Specific Requirements for Finite Difference Time Domain (FDTD) Modeling of Exposure from Vehicle Mounted Antennas (IEC 62704-2:201X)

#### **HZN/TO E108, Sigurnost električke opreme u području audio, video, informacijske i komunikacijske tehnologije**

FPrEN 62949:2016 en  
Particular safety requirements for equipment to be connected to information and communication networks (IEC 62949:201X)

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

EN 300 676-2 V2.1.1:2015 en  
Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU (EN 300 676-2 V2.1.1:2015)  
VHF ručni, pokretni i nepokretni odašiljači, prijamnici i primoodašiljači na tlu za zrakoplovnu pokretnu službu u VHF području s amplitudnom modulacijom – 2. dio: Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive 2014/53/EU

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

prEN 13814-1 en  
Safety of amusement rides and amusement devices – Part 1: Design and manufacture

prEN 13814-2 en  
Safety of amusement rides and amusement devices – Part 2: Operation, maintenance and use

prEN 13814-3 en  
Safety of amusement rides and amusement devices – Part 3: Requirements for inspection during design, manufacture, operation and use

#### **HZN/TU I3, Strojarstvo 3**

prEN 14450 en  
Secure storage units – Requirements, classification and methods of test for resistance to burglary – Secure safe cabinets  
Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – Sigurnosni ormari

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

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

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

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

FPrEN ISO 3950 en  
Dentistry – Designation system for teeth and areas of the oral cavity (ISO/FDIS 3950:2015)  
Stomatologija – Sustav označivanja zuba i područja usne šupljine (ISO/FDIS 3950:2015)

prEN ISO 7787-3 en  
Dentistry – Laboratory cutters – Part 3: Tungsten carbide cutters for milling machines (ISO/DIS 7783-3: 2015)  
Stomatologija – Laboratorijski rezači – 3. dio: Rezači od volframova karbida za uređaje za frezanje (ISO/DIS 7783-3: 2015)

FprEN ISO 19429 en  
Dentistry – Designation system for dental implants (ISO 19429:2015)  
Stomatologija – Sustav označivanja za zubne implantate (ISO 19429:2015)

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

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

FprEN 2714-014 en  
Aerospace series – Cables, electrical, single and multicore for general purpose – Operating temperatures between -55 °C and 260 °C – Part 014: DR family, 4 to 11 cores, taped, screened (braided) and jacketed, UV laser printable – Product standard  
Zrakoplovstvo – Kabeli, električni, jednožilni i višežilni za opću upotrebu – Radna temperatura između -55 °C i 260 °C – Dio 014: DR porodica, sa 4 do 11 žila, vezani, oklopljeni (opleteni) i obloženi, za ispis UV laserskim pisačem – Norma za proizvod

FprEN 2811 en  
Aerospace series – Nuts, hexagon, slotted/castellated in steel cadmium plated – Classification: 1100 MPa/235 °C

FprEN 2879 en  
Aerospace series – Nuts, anchor, self-locking, air resistant, sealing, floating, two lug, with counterbore, in corrosion resisting steel, passivated, MoS2 lubricated – Classification: 900 MPa (at ambient temperature)/235°C

FprEN 2997-002 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 002: Specification of performance and contact arrangements  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatu ili neotporne na vatu, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 002: Specifikacije značajki i položaji kontakta

FprEN 2997-005 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 005: Hermetic square flange receptacle – Product standard  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatu ili neotporne na vatu, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 005: Uticnica s kvadratnom prirubnicom bez dotoka zraka – Norma za proizvod

FprEN 2997-007 rev en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 007: Hermetic receptacle with round flange attached by welding or brazing – Product standard  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatu ili neotporne na vatu, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 007: Uticnica bez dotoka zraka s okruglom prirubnicom spojenom zavarivanjem ili lemljenjem – Norma za proizvod

FprEN 2997-014 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 014: Square flange receptacle with integrated accessory – Product standard

Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatu ili neotporne na vatu, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 014: Uticnica s kvadratnom prirubnicom s uključenom dodatnom opremom – Norma za proizvod

FprEN 3155-001 rev en  
Aerospace series – Electrical contacts used in elements of connection – Part 001: Technical Specification  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 001. dio: Tehnička specifikacija

FprEN 3375-007 rev en  
Aerospace series – Cable, electrical, for digital data transmission – Part 007: Double braid – 77 Ohms – Type WW – Product standard  
Zrakoplovstvo – Električni kabeli za prijenos digitalnih podataka – 007. dio: Dvostruko pleteni – 77 Oma – Tip WW – Norma za proizvod

FprEN 3375-009 en  
Aerospace series – Cable, electrical, for digital data transmission – Part 009: Single braid – CAN Bus – 120 ohms – Type WX – Product standard  
Zrakoplovstvo – Električni kabeli za prijenos digitalnih podataka – 009. dio: Jednostruko pleteni – CAN protokol spajanja – 120 Oma – Tip WX – Norma za proizvod

FprEN 3471 en  
Aerospace series – Steel FE-PA18 – Quenched and cold drawn – Strip for spring – a ≤ 4,0 mm

FprEN 3471 en  
Aerospace series – Steel FE-PA18 – Quenched and cold drawn – Strip for spring – a ≤ 4,0 mm

FprEN 3572 en  
Aerospace series – PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6800 kPa and 8°30' fitting in titanium – Product standard

FprEN 3672 en  
Aerospace series – Shank nuts, self-locking, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated, for 30°C swage – Classification: 1210 MPa (at ambient temperature)/730°C  
Zrakoplovstvo – Držač matica, samozatvarajući, legura na bazi nikla otporna na toplinu NI-P101HT (Waspaloy), prevučena srebrom, za kalup do 30° – Klasifikacija: 1210 MPa (pri temperaturi okoline)/730 °C

FprEN 3902 en  
Aerospace series – Washers for rivet assemblies, in aluminium alloy, anodized, metric series

FprEN 3903 en  
Aerospace series – Washers, laminated, in corrosion resisting steel

FprEN 3908 en  
Aerospace series – Nipples, lubricating, axial type, in corrosion resisting steel, passivated

FprEN 4056-003 en  
Aerospace series – Cable ties for harnesses – Part 003: Plastic cable ties – Operating temperatures -65 °C to 105 °C and -65 °C to 150 °C – Product standard

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

FprEN 4178 en  
Aerospace series – Screws, pan head, six lobe recess, coarse tolerance normal shank, medium length thread, in titanium alloy, anodized, MoS2 lubricated – Classification: 1100 MPa (at ambient temperature)/315 °C  
Zrakoplovstvo – Vjaci, s ravnom glavom, imbus vijak sa šesterokutnom glavom, normalnog struka grube tolerancije, srednje dužine navoja, od legure titana, anodizirani, podmazani s MoS2 – Razredba: 1100 MPa (pri temperaturi okoline)/315 °C

- FprEN 4297 en  
Aerospace series – Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in corrosion resisting steel, passivated – Classification: 900 MPa (at ambient temperature)/120 °C
- FprEN 4309 en  
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
- FprEN 4376 en  
Aerospace series – Heat resisting alloy NI-PH2601 (NiCr19Fe19Nb5Mo3) solution treated and precipitation treated – Bar and section, De ≤ 200 mm
- FprEN 4474 rev en  
Aerospace series – Aluminium pigmented coatings – Coating methods  
Zrakoplovstvo – Aluminijski pigmentirani premazi – Metode premazivanja
- FprEN 4534-2 en  
Aerospace series – Bushes, plain in aluminium alloy with self-lubricating liner, elevated load – Part 2: Dimensions and loads – Inch series  
Zrakoplovstvo – Čahure, ravne od legure aluminija sa samopodmazujućim podložnim prstenom, povišenog opterećenja – 2. dio: Dimenzije i opterećenja – Nizovi u inčima
- FprEN 4535-2 en  
Aerospace series – Bushes, flanged in aluminium alloy with self-lubricating liner, elevated load – Part 2: Dimensions and loads – Inch series  
Zrakoplovstvo – Čahure, od legure aluminija s prirubnicom i samopodmazujućim podložnim prstenom, povišenog opterećenja – 2. dio: Dimenzije i opterećenja – Nizovi u inčima
- EN 6031:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of in-plane shear properties ( $\pm 45^\circ$  tensile test)
- EN 6032:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of the glass transition temperatures
- EN 6033:2015 en  
Aerospace series – Carbon fibre reinforced plastics – Test method – Determination of interlaminar fracture toughness energy – Mode I – GIC
- EN 6034:2015 en  
Aerospace series – Carbon fibre reinforced plastics – Test method – Determination of interlaminar fracture toughness energy – Mode II – GIIC
- EN 6035:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of notched and unnotched tensile strength
- EN 6036:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of notched, unnotched and filled hole compression strength
- EN 6037:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of bearing strength
- EN 6038:2015 en  
Aerospace series – Fibre reinforced plastics – Test method – Determination of the compression strength after impact
- FprEN 6049-009 en  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 009: Self-wrapping fire protection sleeve, flexible, post installation, operating temperature from - 55 °C to 260 °C – Product standard
- FprEN 6080 en  
Aerospace series – Rivet, 100° normal flush head, close tolerance – Inch series
- FprEN 6081 en  
Aerospace series – Rivet, universal head, close tolerance – Inch series
- FprEN 6090 en  
Aerospace series – Washer, retaining
- FprEN 6092 en  
Aerospace series – Receptacle, floating, double lug
- FprEN 6094 en  
Aerospace series – Washer, spring, countersunk
- FprEN 6101 en  
Aerospace series – Rivet, 100° medium flush head, close tolerance – Inch series
- FprEN 6105 en  
Aerospace series – Stud with shoulder
- FprEN 6129 en  
Aerospace series – Blind bolt, protruding head, high strength, pullytype
- FprEN 16602-20-07 en  
Space produce assurance – Quality and safety assurance for space test centres
- FprEN 16602-20-08 en  
Space product assurance – Storage, handling and transportation of spacecraft hardware
- FprEN 16602-70 en  
Space product assurance – Materials, mechanical parts and processes
- FprEN 16602-70-12 en  
Space product assurance – Design rules for printed circuit boards
- FprEN 16602-70-71 en  
Space product assurance – Materials, processss and their data selection
- FprEN 16603-32-08 en  
Space engineering – Materials
- HZN/TU U1, Opća elektrotehnika 1**
- FprEN 60068-2-18:2016 en  
Environmental testing – Part 2-18: Tests – Tests R and guidance: Water (IEC 60068-2-18:201X)  
Ispitivanje pri utjecaju okoliša – Dio 2-18: Ispitivanja – Ispitivanje R i naputak: Voda (IEC 60068-2-18:201X)
- FprEN 60664-3:2016 en  
Insulation coordination for equipment within low-voltage systems – Part 3: Use of coating, potting or moulding for protection against pollution (IEC 60664-3:201X)  
Koordinacija izolacije za opremu niskonaponskih sustava – 3. dio: Zaštita od zagađenja oblaganjem te stavljanjem u kućište ili kalup (IEC 60664-3:201X)
- FprEN 62656-5:2015 en  
Standardized product ontology register and transfer by spreadsheets – Part 5: Interface for activity description
- HZN/TU V1, Elektronika 1**
- EN 50411-3-8:2016 en  
Fibre organizers and closures to be used in optical fibre communication systems – Product specifications – Part 3-8: Fibre management system, terminal equipment box type 1 for category C
- EN 60384-19:2015 en  
Fixed capacitors for use in electronic equipment – Part 19: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors (IEC 60384-19:2015)
- FprEN 60793-1-48:2015 en  
Optical fibres – Part 1-48: Measurement methods and test procedures – Polarization mode dispersion (IEC 60793-1-48:201X)
- EN 60793-2-40:2016 en  
Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres (IEC 60793-2-40:2015)
- FprEN 60794-2-30:2016 en  
Optical fibre cables – Part 2-30: Indoor optical cables – Family specification for optical fibre ribbon cables for use in terminated cable assemblies (IEC 60794-2-30:201X)

FprEN 60794-4:2015 en  
Optical fibre cables – Part 4: Sectional specification – Aerial optical cables along electrical power lines (IEC 60794-4:201X)

EN 60794-4-10:2014 en  
Optical fibre cables – Part 4-10: Family specification – Optical ground wires (OPGW) along electrical power lines (IEC 60794-4-10:2014)

FprEN 60794-5:2014 en  
Optical fibre cables – Part 5: Sectional specification – Microduct cabling for installation by blowing (IEC 60794-5:201X)

EN 61010-1:2010/FprA1:2016 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010/am1:201X)  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – 1. dio: Opći zahtjevi (IEC 61010-1:2010/am1:201X)

FprEN 61010-2-030:2016 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for equipment having testing or measuring circuits (IEC 61010-2-030:201X)

FprEN 61010-2-034:2016 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength test (IEC 61010-2-034:201X)

FprEN 61169-53:2015 en  
Radio frequency connectors Part 53: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 16 mm with screw lock – Characteristic impedance 50 Ω (Type S7-16) (IEC 61169-53:2015)

FprEN 61169-58:2015 en  
Radio-frequency connectors – Part 58: Sectional specification for RF coaxial connectors with blind-mate coupling-characteristic impedance 50 ? (type SBMA) (IEC 61169-58:201X)

FprEN 61215-1:2015 en  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements (IEC 61215-1:201X)

FprEN 61215-1-1:2015 en  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules (IEC 61215-1-1:201X)

FprEN 61215-2:2015 en  
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures (IEC 61215-2:201X)

FprEN 61240:2016 en  
Piezoelectric devices – Preparation of outline drawings of surface-mounted devices (SMD) for frequency control and selection – General rules (IEC 61240:201X)

FprEN 62150-5:2016 en  
Fibre optic active components and devices – Test and measurement procedures – Part 5: Wavelength channel tuning time of tuneable transmitters (IEC 62150-5:201X)

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

FprEN 62670-3:2015 en  
Photovoltaic concentrators (CPV) – Performance testing – Part 3: Performance measurements and power rating (IEC 62670-3:201X)

FprEN 62951-1:2015 en  
Semiconductor devices – Flexible and stretchable semiconductor devices – Part 1: Bending test method for conductive thin films on flexible substrates (IEC 62951-1:201X)

## HZN/TU W1, Energetska elektrotehnika 1

prEN 50632-3-3:2016 en  
Electric motor-operated tools – Dust measurement procedure – Part 3-3: Particular requirements for transportable planers and thicknessers

FprEN 62841-2-10:2016 en  
Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 2-10: Particular requirements for hand-held mixers (IEC 62841-2-10:201X)

FprEN 62841-2-11:2015/FprAA:2015 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-11: Particular requirements for hand-held reciprocating saws (jig and sabre saws)  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 2-11: Posebni zahtjevi za ručne pile s unutarnjim izgaranjem (ubodne i sabljaste pile)

FprEN 62841-3-13:2016 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-13: Particular requirements for transportable drills (IEC 62841-3-13:201X)

FprEN 62841-3-4:2015/FprAA:2015 en  
Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-4: Particular requirements for transportable bench grinders  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-4: Posebni zahtjevi za prijenosne stolne brusilice

## 1.4 Povučene hrvatske norme

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavoda za norme donosi odluku o povlačenju hrvatske norme kada je donesena nova hrvatska norma ili kada je postojeća hrvatska norma postala neprimjenjiva.  
Kada je koje područje uređeno propisima i neki od propisa (pravilnik, naredba, naputak) upućuje na norme koje su povučene, one se primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe novih, na raspolaganju u Normoteci HZN-a.

## HZN/TO 8, Brodogradnja

HRN ISO 484-1:2001 en  
Brodogradnja – Brodski vijci – Tolerancije izrade – 1. dio: Vijci promjera većeg od 2.5 m (ISO 484-1:1981)  
Shipbuilding – Ship screw propellers – Manufacturing tolerances – Part 1: Propellers of diameter greater than 2.5 m (ISO 484-1:1981)  
- zamijenjena s: HRN ISO 484-1:2016

HRN ISO 4085:2004 en  
Brodogradnja – Unutarnja plovidba – Okretni bum (ISO 4085:1979)  
Shipbuilding – Inland navigation – Swing derricks (ISO 4085:1979)  
- bez zamjene

HRN EN ISO 9094-1:2003 en  
Mala plovila – Protupožarna zaštita – 1. dio: Mala plovila duljine do uključujući 15 m (ISO 9094-1:2003; EN ISO 9094-1:2003)  
Small craft – Fire protection – Part 1: Craft with a hull length of up to and including 15 m (ISO 9094-1:2003; EN ISO 9094-1:2003)  
- zamijenjena s: HRN EN ISO 9094:2016

HRN EN ISO 9094-2:2004 en  
Mala plovila – Protupožarna zaštita – 2. dio: Plovila duljine trupa preko 15 m (ISO 9094-2:2002; EN ISO 9094-2:2002)  
Small craft – Fire protection – Part 2: Craft with a hull length of over 15 m (ISO 9094-2:2002; EN ISO 9094-2:2002)  
- zamijenjena s: HRN EN ISO 9094:2016

HRN ISO 15371:2014 en  
Brodovi i pomorska tehnologija – Protupožarni sustavi za zaštitu opreme za kuhanje u brodskoj kuhinji (ISO 15371:2009)  
Ships and marine technology – Fire-extinguishing systems for protection of galley cooking equipment (ISO 15371:2009)  
- zamijenjena s: HRN ISO 15371:2016

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

HRN EN 15503:2014 en

Oprema za vrtove i parkove – Vrtni ventilatori, usisači i ventilatori/usisači – Sigurnost (EN 15503:2009+A1:2013)  
Garden equipment – Garden blowers, vacuums and blower/vacuums – Safety (EN 15503:2009+A1:2013)

- zamijenjena s: HRN EN 15503:2016

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

HRN EN ISO 4263-3:2011 en

Nafta i srođni proizvodi – Određivanje starenja inhibiranih ulja i tekućina uporabom TOST testa – 3. dio: Bezvodni postupak za sintetičke hidraulične tekućine (ISO 4263-3:2010; EN ISO 4263-3:2010)

Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids using the TOST test – Part 3: Anhydrous procedure for synthetic hydraulic fluids (ISO 4263-3:2010; EN ISO 4263-3:2010)

- zamijenjena s: HRN EN ISO 4263-3:2016

## **HZN/TO 35, Boje i lakovи**

HRN EN ISO 4630-1:2005 en

Čiste kapljevine – Procjena boje pomoću Gardnerove ljestvice boja – 1. dio: Vizualna metoda (ISO 4630-1:2004; EN ISO 4630-1:2004)

Clear liquids – Estimation of colour by the Gardner colour scale – Part 1: Visual method (ISO 4630-1:2004; EN ISO 4630-1:2004)

- zamijenjena s: HRN EN ISO 4630:2016

HRN EN ISO 4630-2:2005 en

Čiste kapljevine – Procjena boje pomoću Gardnerove ljestvice boja – 2. dio: Spektrofotometrijska metoda (ISO 4630-2:2004; EN ISO 4630-2:2004)

Clear liquids – Estimation of colour by the Gardner colour scale – Part 2: Spectrophotometric method (ISO 4630-2:2004; EN ISO 4630-2:2004)

- zamijenjena s: HRN EN ISO 4630:2016

HRN EN ISO 6271-1:2005 en

Čiste kapljevine – Procjena boje pomoću platina-kobalt ljestvice – 1. dio: Vizualna metoda (ISO 6271-1:2004; EN ISO 6271-1:2004)

Clear liquids – Estimation of colour by the platinum-cobalt scale – Part 1: Visual method (ISO 6271-1:2004; EN ISO 6271-1:2004)

- zamijenjena s: HRN EN ISO 6271:2016

HRN EN ISO 6271-2:2005 en

Čiste kapljevine – Procjena boje pomoću platina-kobalt ljestvice – 2. dio: Spektrofotometrijska metoda (ISO 6271-2:2004; EN ISO 6271-2:2004)

Clear liquids – Estimation of colour by the platinum-cobalt scale – Part 2: Spectrophotometric method (ISO 6271-2:2004; EN ISO 6271-2:2004)

- zamijenjena s: HRN EN ISO 6271:2016

## **HZN/TO 37, Terminologija**

HRN ISO 10241:2010 en

Međunarodne terminološke norme – Priprema i strukturni razmještaj (ISO 10241:1992)

International terminology standards – Preparation and layout (ISO 10241:1992)

- zamijenjena s: HRN ISO 10241-1:2016

HRI ISO/TR 24156:2010 en

Smjernice za upotrebu oznaka UML-a u terminološkom radu (ISO/TR 24156:2008)

Guidelines for using UML notation in terminology work (ISO/TR 24156:2008)

- zamijenjena s: HRN ISO 24156-1:2016

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

HRN EN ISO 636:2008 en

Dodatajni i potrošni materijali za zavarivanje – Šipke, žice i depoziti za TIG zavarivanje nelegiranih i sitnozrnatih čelika – Razredba (ISO 636:2004; EN ISO 636:2008)

Welding consumables – Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels – Classification (ISO 636:2004; EN ISO 636:2008)

- zamijenjena s: HRN EN ISO 636:2016

HRN EN ISO 1071:2004 en

Dodatajni i potrošni materijali za zavarivanje – Obložene elektrode, žice, šipke i punjene žice za zavarivanje željeznih ljevova taljenjem – Razredba (ISO 1071:2003; EN ISO 1071:2003)

Welding consumables – Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron – Classification (ISO 1071:2003; EN ISO 1071:2003)

- zamijenjena s: HRN EN ISO 1071:2016

HRN EN ISO 17632:2008 en

Dodatajni i potrošni materijali za zavarivanje – Punjene žice za elektrolučno zavarivanje sa zaštitom plina i bez zaštite plina za nelegirane i sitnozrnate čelike – Razredba (ISO 17632:2004; EN ISO 17632:2008)

Welding consumables – Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of non-alloy and fine grain steels – Classification (ISO 17632:2004; EN ISO 17632:2008)

- zamijenjena s: HRN EN ISO 17632:2016

HRN EN ISO 18273:2004 en

Dodatajni i potrošni materijali za zavarivanje – Žičane elektrode, žice i šipke za zavarivanje aluminija i aluminijskih legura – Razredba (ISO 18273:2004; EN ISO 18273:2004)

Welding consumables – Wire electrodes, wires and rods for welding of aluminium and aluminium alloys – Classification (ISO 18273:2004; EN ISO 18273:2004)

- zamijenjena s: HRN EN ISO 18273:2016

## **HZN/TO 47, Kemija**

HRN EN ISO 4797:2008 en

Laboratorijsko stakleno posuđe – Vatrostalne tirkvice s koničnim brušenim grlom (ISO 4797:2004; EN ISO 4797:2004)

Laboratory glassware – Boiling flasks with conical ground joints (ISO 4797:2004; EN ISO 4797:2004)

- zamijenjena s: HRN EN ISO 4797:2016

## **HZN/TO 69, Primjena statističkih metoda**

HRN ISO 3534-1:1997 hr,en

Statistika – Rječnik i znakovi – 1. dio: Vjerojatnost i opći statistički nazivi (ISO 3534-1:1993)

Statistics – Vocabulary and symbols – Part 1: Probability and general statistical terms (ISO 3534-1:1993)

- zamijenjena s: HRN ISO 3534-1:2016

HRN ISO 3534-2:1997 hr,en

Statistika – Rječnik i znakovi – 2. dio: Statističko upravljanje kakvočom (ISO 3534-2:1993)

Statistics – Vocabulary and symbols – Part 2: Statistical quality control (ISO 3534-2:1993)

- zamijenjena s: HRN ISO 3534-2:2016

HRN ISO 3951-1:2012 en

Postupci uzorkovanja pri pregledima po varijablama – 1. dio: Specifikacije planova jednostručnih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede „lot-by-lot“ za jednu značajku kvalitete i jedan „AQL“ (ISO 3951-1:2005)

Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL (ISO 3951-1:2005)

- zamijenjena s: HRN ISO 3951-1:2016

HRN ISO 7870-1:2012 en

Kontrolni dijagrami – 1. dio: Opće smjernice (ISO 7870-1:2007)

Control charts – Part 1: General guidelines (ISO 7870-1:2007)

- zamijenjena s: HRN ISO 7870-1:2016

HRN ISO 16269-6:2012 en

Statističko tumačenje podataka – 6. dio: Određivanje statističkih intervala tolerancija (ISO 16269-6:2005)

Statistical interpretation of data – Part 6: Determination of statistical tolerance intervals (ISO 16269-6:2005)

- zamijenjena s: HRN ISO 16269-6:2016

## **HZN/TO 89, Furniri i drvne ploče**

HRN EN 120:2000 en

Ploče na bazi drva – Određivanje sadržaja formaldehida – Ekstrakcijska metoda nazvana perforatorska metoda (EN 120:1992)

Wood based panels – Determination of formaldehyde content – Extraction method called the perforator method (EN 120:1992)

- zamijenjena s: HRN EN ISO 12460-5:2016

## **HNZ/TO 134, Gnojiva i poboljšivači tla**

HRN EN 16319:2014 en

Gnojiva – Određivanje elemenata u tragovima – Određivanje kadmija, kroma, olova i nikla upotrebom atomske emisijske spektrometrije s induktivno spregnutom plazmom (ICP-AES) nakon otapanja u zlatotopki (EN 16319:2013)

Fertilizers – Determination of trace elements – Determination of cadmium, chromium, lead and nickel by inductively coupled plasma-atomic emission spectrometry (ICP-AES) after aqua regia dissolution (EN 16319:2013)

- zamijenjena s: HRN EN 16319:2016

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

HRN EN 10256:2003 en

Nerazorno ispitivanje čeličnih cijevi – Kvalifikacija i kompetentnost osoblja za nerazorna ispitivanja 1. i 2. stupnja (EN 10256:2000)

Non-destructive testing of steel tubes – Qualification and competence of level 1 and 2 non-destructive testing personnel (EN 10256:2000)

- bez zamjene

## **HNZ/TO 136, Namještaj**

HRN EN 1729-1:2008 en

Namještaj – Stolice i stolovi za obrazovne ustanove – 1. dio: Funkcionalne dimenzije (EN 1729-1:2006)

Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions (EN 1729-1:2006)

- zamijenjena s: HRN EN 1729-1:2016

HRN EN 1729-2:2012 en

Namještaj – Stolice i stolovi za obrazovne ustanove – 2. dio:

Sigurnosni zahtjevi i metode ispitivanja (EN 1729-2:2012)

Furniture – Chairs and tables for educational institutions – Part 2:

Safety requirements and test methods (EN 1729-2:2012)

- zamijenjena s: HRN EN 1729-2:2016

HRN EN 12520:2010 en

Namještaj – Čvrstoča, trajnost i sigurnost – Zahtjevi za kućni namještaj za sjedenje (EN 12520:2010)

Furniture – Strength, durability and safety – Requirements for domestic seating (EN 12520:2010)

- zamijenjena s: HRN EN 12520:2016

HRN EN 12521:2010 en

Namještaj – Čvrstoča, trajnost i sigurnost – Zahtjevi za stolove za kućnu uporabu (EN 12521:2009)

Furniture – Strength, durability and safety – Requirements for domestic tables (EN 12521:2009)

- zamijenjena s: HRN EN 12521:2016

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

HRS CEN/TS 1852-2:2010 en

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1852-2:2009)

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP)

– Part 2: Guidance for the assessment of conformity (CEN/TS 1852-2:2009)

- zamijenjena s: HRS CEN/TS 1852-2:2016

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

HRN CR 13841:2007 en

Atmosfera radnih prostora – Znanstvene osnove za opisivanje utjecaja referencijskog razdoblja na predstavljanje podataka o izloženosti (CR 13841:2000)

Workplace atmospheres – Scientific basis to describe the influence of the reference period on the presentation of exposure data (CR 13841:2000)

- bez zamjene

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

HRN EN 14303:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od mineralne (MW) vune – Specifikacija (EN 14303:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made mineral wool (MW) products – Specification (EN 14303:2009+A1:2013)

- zamijenjena s: HRN EN 14303:2016

HRN EN 14304:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od savitljive elastomerne pjene (FEF) – Specifikacija (EN 14304:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made flexible elastomeric foam (FEF) products – Specification (EN 14304:2009+A1:2013)

- zamijenjena s: HRN EN 14304:2016

HRN EN 14305:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izraženi proizvodi od čelijastog (pjenastog) stakla (CG) – Specifikacija (EN 14305:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made cellular glass (CG) products – Specification (EN 14305:2009+A1:2013)

- zamijenjena s: HRN EN 14305:2016

HRN EN 14306:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od kalcijevog silikata (CS) – Specifikacija (EN 14306:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made calcium silicate (CS) products – Specification (EN 14306:2009+A1:2013)

- zamijenjena s: HRN EN 14306:2016

HRN EN 14307:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od ekstrudirane polistirenske pjene (XPS) – Specifikacija (EN 14307:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made extruded polystyrene foam (XPS) products – Specification (EN 14307:2009+A1:2013)

- zamijenjena s: HRN EN 14307:2016

HRN EN 14309:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od ekspandiranog polistirena (EPS) – Specifikacija (EN 14309:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made expanded polystyrene (EPS) – Specification (EN 14309:2009+A1:2013)

- zamijenjena s: HRN EN 14309:2016

HRN EN 14313:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od polietilenске pjene (PEF) – Specifikacija (EN 14313:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made polyethylene foam (PEF) products – Specification (EN 14313:2009+A1:2013)

- zamijenjena s: HRN EN 14313:2016

HRN EN 14314:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od fenolne pjene (PF) – Specifikacija (EN 14314:2009+A1:2013)

Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF) products – Specification (EN 14314:2009+A1:2013)

- zamijenjena s: HRN EN 14314:2016

HRN EN 15501:2013 en

Toplinsko-izolacijski proizvodi za instalacije u zgradama i industriji – Tvorčki izrađeni proizvodi od ekspandiranog perlita (EP) i ljuškastog vermiculita (EV) – Specifikacija (EN 15501:2013)

Thermal insulation products for building equipment and industrial installations – Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products – Specification (EN 15501:2013)

- zamijenjena s: HRN EN 15501:2016

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

HRN EN ISO 11810-1:2010 en

Laseri i pridružena oprema – Metode ispitivanja i razredba otpornosti kirurških zastora i/ili zaštitnih pokrivala za pacijente na lasersko zračenje – 1. dio: Primarno zapaljenje i prodiranje (ISO 11810-1:2005; EN ISO 11810-1:2009)

Lasers and laser-related equipment – Test method and classification for the laser resistance of surgical drapes and/or patient protective covers – Part 1: Primary ignition and penetration (ISO 11810-1:2005; EN ISO 11810-1:2009)

- zamijenjena s: HRN EN ISO 11810:2016



## HRN EN ISO 11810-2:2010 en

Laseri i pridružena oprema – Metode ispitivanja i razredba otpornosti kirurških zastora i/ili zaštitnih pokrivala za pacijente na lasersko zračenje – 2. dio: Sekundarno zapaljenje (ISO 11810-2:2007; EN ISO 11810-2:2009)  
Lasers and laser-related equipment – Test method and classification for the laser-resistance of surgical drapes and/or patient-protective covers – Part 2: Secondary ignition (ISO 11810-2:2007; EN ISO 11810-2:2009)  
- zamijenjena s: HRN EN ISO 11810:2016

## HRN EN ISO 13694:2008 en

Optika i optički instrumenti – Laseri i pridružena oprema – Ispitne metode za raspodjelu gustoće snage (energije) laserskog snopa (ISO 13694:2000+Cor 1:2005; EN ISO 13694:2000+AC:2007)  
Optics and optical instruments – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution (ISO 13694:2000+Cor 1:2005; EN ISO 13694:2000+AC:2007)  
- zamijenjena s: HRN EN ISO 13694:2016

## HZN/TO 176, Upravljanje kvalitetom i osiguravanje kvalitete

### HRN ISO 10002:2008 en

Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za postupanje s reklamacijama u organizaciji (ISO 10002:2004)  
Quality management – Customer satisfaction – Guidelines for complaints handling in organizations (ISO 10002:2004)  
- zamijenjena s: HRN ISO 10002:2016

### HRN ISO 10002:2008/Ispr.1:2010 en

Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za postupanje s reklamacijama u organizaciji (ISO 10002:2004/Cor 1:2009)  
Quality management – Customer satisfaction – Guidelines for complaints handling in organizations (ISO 10002:2004/Cor 1:2009)  
- zamijenjena s: HRN ISO 10002:2016

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

### HRN EN 13209-2:2008 en

Proizvodi za dojenčad i malu djecu – Nosiljke za dojenčad – Sigurnosni zahtjevi i metode ispitivanja – 2. dio: Mekane nosiljke (EN 13209-2:2005)  
Child use and care articles – Baby carriers – Safety requirements and test methods – Part 2: Soft carrier (EN 13209-2:2005)  
- zamijenjena s: HRN EN 13209-2:2016

### HRI CEN/TR 15071:2014 en

Sigurnost igračaka – Nacionalni prijevodi upozorenja i upute za uporabu prema nizu norma EN 71 (CEN/TR 15071:2014)  
Safety of toys – National translations of warnings and instructions for use in EN 71 series (CEN/TR 15071:2014)  
- zamijenjena s: HRI CEN/TR 15071:2016

### HRI CEN/TR 15371:2014 en

Sigurnost igračaka – Odgovori na upite povezane s tumačenjem EN 71-1, EN 71-2 i EN 71-8 (CEN/TR 15371:2014)  
Safety of toys – Replies to requests for interpretation of EN 71-1, EN 71-2 and EN 71-8 (CEN/TR 15371:2014)  
- zamijenjena s: HRI CEN/TR 15371-1:2016

## HZN/TO 182, Geotehničke konstrukcije

### HRS CEN ISO/TS 17892-3:2008 en

Geotehničko istraživanje i ispitivanje – Laboratorijsko ispitivanje tla – 3. dio: Određivanje gustoće čvrstih čestica – Metoda piknometra (ISO/TS 17892-3:2004; CEN ISO/TS 17892-3:2004)  
Geotechnical investigation and testing – Laboratory testing of soil – Part 3: Determination of particle density – Pycnometer method (ISO/TS 17892-3:2004; CEN ISO/TS 17892-3:2004)  
- zamijenjena s: HRN EN ISO 17892-3:2016

## HZN/TO 190, Kvaliteta tla

### HRN ISO 13877:2004 en

Kakvoća tla – Određivanje policikličkih aromatskih ugljikovodika – Metoda tekućinske kromatografije visokog učinka (ISO 13877:1998)  
Soil quality – Determination of polynuclear aromatic hydrocarbons – Method using high-performance liquid chromatography (ISO 13877:1998)  
- bez zamjene

## HZN/TO 211, Geoinformacije/Geomatika

### HRN EN ISO 19109:2008 en

Geoinformacije – Pravila za aplikacijsku shemu (ISO 19109:2005; EN ISO 19109:2006)  
Geographic information – Rules for application schema (ISO 19109:2005; EN ISO 19109:2006)  
- zamijenjena s: HRN EN ISO 19109:2016

## HZN/TO 217, Kozmetika

### HRN EN ISO 18416:2010 en

Kozmetika – Mikrobiologija – Dokazivanje kvasca Candida albicans (ISO 18416:2007; EN ISO 18416:2009)  
Cosmetics – Microbiology – Detection of Candida albicans (ISO 18416:2007; EN ISO 18416:2009)  
- zamijenjena s: HRN EN ISO 18416:2016

### HRN EN ISO 21150:2010 en

Kozmetika – Mikrobiologija – Dokazivanje bakterije Escherichia coli (ISO 21150:2006; EN ISO 21150:2009)  
Cosmetics – Microbiology – Detection of Escherichia coli (ISO 21150:2006; EN ISO 21150:2009)  
- zamijenjena s: HRN EN ISO 21150:2016

### HRN EN ISO 22717:2010 en

Kozmetika – Mikrobiologija – Dokazivanje bakterije Pseudomonas aeruginosa (ISO 22717:2006; EN ISO 22717:2009)  
Cosmetics – Microbiology – Detection of Pseudomonas aeruginosa (ISO 22717:2006; EN ISO 22717:2009)  
- zamijenjena s: HRN EN ISO 22717:2016

### HRN EN ISO 22718:2010 en

Kozmetika – Mikrobiologija – Dokazivanje bakterije Staphylococcus aureus (ISO 22718:2006; EN ISO 22718:2009)  
Cosmetics – Microbiology – Detection of Staphylococcus aureus (ISO 22718:2006; EN ISO 22718:2009)  
- zamijenjena s: HRN EN ISO 22718:2016

## HZN/TO 219, Podne obloge

### HRN EN 1307:2015 en

Tekstilne podne obloge – Razredba (EN 1307:2014)  
Textile floor coverings – Classification (EN 1307:2014)  
- zamijenjena s: HRN EN 1307:2016

## HZN/TO 221, Geosintetici

### HRN CEN/TS 14417:2006 en

Geosintetičke barijere – Ispitna metoda za određivanje utjecaja ciklusa vlaženja i sušenja na propusnost glinenih geosintetičkih barijera (CEN/TS 14417:2005)

Geosynthetic barriers – Test method for the determination of the influence of wetting-drying cycles on the permeability of clay geosynthetic barriers (CEN/TS 14417:2005)

- zamijenjena s: HRS CEN/TS 14417:2016

### HRN CEN/TS 14418:2006 en

Geosintetičke barijere – Ispitna metoda za određivanje utjecaja ciklusa smrzavanja i odmrzavanja na propusnost glinenih geosintetičkih barijera (CEN/TS 14418:2005)

Geosynthetic barriers – Test method for the determination of the influence of freezing-thawing cycles on the permeability of clay geosynthetic barriers (CEN/TS 14418:2005)

- zamijenjena s: HRS CEN/TS 14418:2016

## HZN/TO 238, Čvrsta biogoriva

### HRN EN 15103:2010 en

Čvrsta biogoriva – Određivanje nasipne gustoće (EN 15103:2009)  
Solid biofuels – Determination of bulk density (EN 15103:2009)  
- zamijenjena s: HRN EN ISO 17828:2016

### HRN EN 15210-1:2010 en

Čvrsta biogoriva – Određivanje mehaničke izdržljivosti peleta i briketa – 1. dio: Peleti (EN 15210-1:2009)

Solid biofuels – Determination of mechanical durability of pellets and briquettes – Part 1: Pellets (EN 15210-1:2009)

- zamijenjena s: HRN EN ISO 17831-1:2016

### HRN EN 15210-2:2010 en

Čvrsta biogoriva – Određivanje mehaničke izdržljivosti peleta i briketa – 2. dio: Briketi (EN 15210-2:2010)

Solid biofuels – Determination of mechanical durability of pellets and briquettes – Part 2: Briquettes (EN 15210-2:2010)

- zamijenjena s: HRN EN ISO 17831-2:2016

## **HZN/TO 502, Plinski uređaji**

HRN EN 26:2000/A2:2004 en

Plinske protočne grijalice za sanitarnu upotrebu s atmosferskim plamenicima (EN 26:1997/A2:2004)  
Gas-fired instantaneous water heaters for the production of domestic hot water, fitted with atmospheric burners (EN 26:1997/A2:2004)

- zamijenjena s: HRN EN 26:2015

HRN EN 16436-1:2014 en

Gumena i plastična crijeva, cijevi i spojevi pri upotrebni propana, butana i njihovih mješavina u parnoj fazi – 1. dio: Crijeva i cjevovodi (EN 16436-1:2014)  
Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase – Part 1: Hoses and tubings (EN 16436-1:2014)

- zamijenjena s: HRN EN 16436-1:2016

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

HRN EN ISO 7500-1:2007 en

Metalni materijali – Provjeravanje statičkih jednoosnih ispitnih uređaja – 1. dio: Ispitni uređaji za zatezanje/kompresiju  
– Provjeravanje i umjeravanje sustava za mjerjenje sile (ISO 7500-1:2004; EN ISO 7500-1:2004)  
Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system (ISO 7500-1:2004; EN ISO 7500-1:2004)

- zamijenjena s: HRN EN ISO 7500-1:2016

HRN EN ISO 7500-1:2007/Ispr.1:2009 en

Metalni materijali – Provjeravanje statičkih jednoosnih ispitnih uređaja – 1. dio: Ispitni uređaji za zatezanje/kompresiju  
– Provjeravanje i umjeravanje sustava za mjerjenje sile (ISO 7500-1:2004/Cor 1:2008; EN ISO 7500-1:2004/AC:2009)  
Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system (ISO 7500-1:2004/Cor 1:2008; EN ISO 7500-1:2004/AC:2009)

- zamijenjena s: HRN EN ISO 7500-1:2016

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

HRN EN ISO 28721-2:2012 en

Staklasti i porculanski emajli – Staklasto prevučeni uređaji za procesna postrojenja – 2. dio: Označivanje i specifikacija otpornosti na kemijsko djelovanje i toplinski šok (ISO 28721-2:2008; EN ISO 28721-2:2011)  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 2: Designation and specification of resistance to chemical attack and thermal shock (ISO 28721-2:2008; EN ISO 28721-2:2011)

- zamijenjena s: HRN EN ISO 28721-2:2016

## **HZN/TO 505, Prijenos i distribucija plina**

HRN EN 1776:2001 en

Opskrba plinom – Mjerne stanice za prirodni plin – Funkcionalni zahtjevi (EN 1776:1998)  
Gas supply systems – Natural gas measuring stations – Functional requirements (EN 1776:1998)

- zamijenjena s: HRN EN 1776:2016

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

HRN EN ISO 23251:2008 en

Industrija nafte, petrokemije i prirodnog plina – Rasteretni i kontrolni sustavi sniženja tlaka (ISO 23251:2007+Amd 1:2008+Cor 1:2007; EN ISO 23251:2007+A1:2008+AC:2008)  
Petroleum, petrochemical and natural gas industries – Pressure-relieving and depressuring systems (ISO 23251:2007+Amd 1:2008+Cor 1:2007; EN ISO 23251:2007+A1:2008+AC:2008)

- bez zamjene

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

HRN EN ISO 780:2001 en

Ambalaža – Slikovno označivanje za rukovanje robom (ISO 780:1997; EN ISO 780:1999)  
Packaging – Pictorial marking for handling goods (ISO 780:1997; EN ISO 780:1999)

- zamijenjena s: HRN EN ISO 780:2016

## **HZN/TO 511, Eksplozivi za civilnu uporabu**

HRN EN 14035-1:2004 en,fr,de

Pirotehnika – 1. dio: Terminologija (EN 14035-1:2003)  
Fireworks – Part 1: Terminology (EN 14035-1:2003)  
- zamijenjena s: HRN EN 15947-1:2010

HRN EN 14035-1:2004/Ispr.1:2008 en

Pirotehnika – 1. dio: Terminologija (EN 14035-1:2003/AC:2005)  
Fireworks – Part 1: Terminology (EN 14035-1:2003/AC:2005)  
- zamijenjena s: HRN EN 15947-1:2010

HRN EN 14035-2:2004 en

Pirotehnika – 2. dio: Razvrstavanje (EN 14035-2:2003)  
Fireworks – Part 2: Categorisation (EN 14035-2:2003)  
- zamijenjena s: HRN EN 15947-2:2010

HRN EN 14035-2:2004/Ispr.1:2008 en

Pirotehnika – 2. dio: Razvrstavanje (EN 14035-2:2003/AC:2005)  
Fireworks – Part 2: Categorisation (EN 14035-2:2003/AC:2005)  
- zamijenjena s: HRN EN 15947-2:2010

HRN EN 14035-3:2008 en

Pirotehnika – 3. dio: Zračni kotači; Specifikacija i metode ispitivanja (EN 14035-3:2004)  
Fireworks – Part 3: Aerial wheels – Specification and test methods (EN 14035-3:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-4:2004 en

Pirotehnika – 4. dio: Petarde i redenici – Specifikacije i metode ispitivanja (EN 14035-4:2003)  
Fireworks – Part 4: Bangers and banger batteries – Specification and test methods (EN 14035-4:2003)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-4:2004/Ispr.1:2008 en

Pirotehnika – 4. dio: Petarde i redenici – Specifikacije i metode ispitivanja (EN 14035-4:2003/AC:2005)  
Fireworks – Part 4: Bangers and banger batteries – Specification and test methods (EN 14035-4:2003/AC:2005)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-5:2008 en

Pirotehnika – 5. dio: Redenici i kombinacije – Specifikacija i metode ispitivanja (EN 14035-5:2006)  
Fireworks – Part 5: Batteries and combinations – Specification and test methods (EN 14035-5:2006)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-6:2008 en

Pirotehnika – 6. dio: Bengalske vatre – Specifikacija i metode ispitivanja (EN 14035-6:2004)  
Fireworks – Part 6: Bengal flames – Specification and test methods (EN 14035-6:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-7:2008 en

Pirotehnika – 7. dio: Bengalske šibice – Specifikacija i metode ispitivanja (EN 14035-7:2004)  
Fireworks – Part 7: Bengal matches – Specification and test methods (EN 14035-7:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-8:2008 en

Pirotehnika – 8. dio: Bengalski štapovi – Specifikacija i metode ispitivanja (EN 14035-8:2004)  
Fireworks – Part 8: Bengal sticks – Specification and test methods (EN 14035-8:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-9:2008 en

Pirotehnika – 9. dio: Pucketajuća (praskajuća) zrnca – Specifikacija i metode ispitivanja (EN 14035-9:2004)  
Fireworks – Part 9: Crackling granules – Specification and test methods (EN 14035-9:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-10:2008 en Pirotehnika – 10. dio: Duple (dvostrukе) petarde – Specifikacija i metode ispitivanja (EN 14035-10:2004) Fireworks – Part 10: Double Bangers – Specification and test methods (EN 14035-10:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-21:2008 en Pirotehnika – 21. dio: Skakajući stolni (podni) zvrkovi – Specifikacija i metode ispitivanja (EN 14035-21:2005) Fireworks – Part 21: Jumping ground spinners – Specification and test methods (EN 14035-21:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-12:2004 en Pirotehnika – 12. dio: Svjetleće petarde i svjetleći redenici – Specifikacije i metode ispitivanja (EN 14035-12:2003) Fireworks – Part 12: Flash bangers and flash banger batteries – Specification and test methods (EN 14035-12:2003) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-22:2008 en Pirotehnika – 22. dio: Vatrene posude (tube) – Specifikacija i metode ispitivanja (EN 14035-22:2004) Fireworks – Part 22: Mines – Specification and test methods (EN 14035-22:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-12:2004/Ispri.1:2008 en Pirotehnika – 12. dio: Svjetleće petarde i svjetleći redenici – Specifikacije i metode ispitivanja (EN 14035-12:2003/AC:2005) Fireworks – Part 12: Flash bangers and flash banger batteries – Specification and test methods (EN 14035-12:2003/AC:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-23:2004 en Pirotehnika – 23. dio: Prskalice koje se ne drže u ruci – Specifikacije i metode ispitivanja (EN 14035-23:2003) Fireworks – Part 23: Non-hand-held sparklers – Specification and test methods (EN 14035-23:2003) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-13:2008 en Pirotehnika – 13. dio: Svjetleće (bljeskajuće) loptice (kuglice) – Specifikacije i metode ispitivanja (EN 14035-13:2004) Fireworks – Part 13: Flash pellets – Specification and test methods (EN 14035-13:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-23:2004/Ispri.1:2008 en Pirotehnika – 23. dio: Prskalice koje se ne drže u ruci – Specifikacije i metode ispitivanja (EN 14035-23:2003/AC:2005) Fireworks – Part 23: Non-hand-held sparklers – Specification and test methods (EN 14035-23:2003/AC:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-15:2004 en Pirotehnika – 15. dio: Fontane – Specifikacije i metode ispitivanja (EN 14035-15:2003) Fireworks – Part 15: Fountains – Specification and test methods (EN 14035-15:2003) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-24:2008 en Pirotehnika – 24. dio: Svjetleće (blješteće ili prema izvorniku zabavne) šibice – Specifikacija i metode ispitivanja (EN 14035-24:2004) Fireworks – Part 24: Novelty matches – Specification and test methods (EN 14035-24:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-15:2004/Ispri.1:2008 en Pirotehnika – 15. dio: Fontane – Specifikacije i metode ispitivanja (EN 14035-15:2003/AC:2005) Fireworks – Part 15: Fountains – Specification and test methods (EN 14035-15:2003/AC:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-25:2008 en Pirotehnika – 25. dio: Zabavne konfete ili Pucajuće konfete ili Konfete za zabavu – Specifikacija i metode ispitivanja (EN 14035-25:2005) Fireworks – Part 25: Party Poppers – Specification and test methods (EN 14035-25:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-17:2008 en Pirotehnika – 17. dio: Stolni (podni) zvrkovi – Specifikacija i metode ispitivanja (EN 14035-17:2004) Fireworks – Part 17: Ground spinners – Specification and test methods (EN 14035-17:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-27:2004 en Pirotehnika – 27. dio: Rakete – Specifikacije i metode ispitivanja (EN 14035-27:2003) Fireworks – Part 27: Rockets – Specification and test methods (EN 14035-27:2003) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-18:2008 en Pirotehnika – 18. dio: Ručne fontane – Specifikacija i metode ispitivanja (EN 14035-18:2004) Fireworks – Part 18: Hand-held fountains – Specification and test methods (EN 14035-18:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-27:2004/Ispri.1:2008 en Pirotehnika – 27. dio: Rakete – Specifikacije i metode ispitivanja (EN 14035-27:2003/AC:2005) Fireworks – Part 27: Rockets – Specification and test methods (EN 14035-27:2003/AC:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-19:2004 en Pirotehnika – 19. dio: Ručne prskalice – Specifikacije i metode ispitivanja (EN 14035-19:2003) Fireworks – Part 19: Hand-held sparklers – Specification and test methods (EN 14035-19:2003) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-28:2008 en Pirotehnika – 28. dio: Rimske svjeće – Specifikacija i metode ispitivanja (EN 14035-28:2004+AC:2006) Fireworks – Part 28: Roman candles – Specification and test methods (EN 14035-28:2004+AC:2006) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-19:2004/Ispri.1:2008 en Pirotehnika – 19. dio: Ručne prskalice – Specifikacija i metode ispitivanja (EN 14035-19:2003/AC:2006) Fireworks – Part 19: Hand-held sparklers – Specification and test methods (EN 14035-19:2003/AC:2006) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-29:2008 en Pirotehnika – 29. dio: Zmije – Specifikacija i metode ispitivanja (EN 14035-29:2004) Fireworks – Part 29: Serpents – Specification and test methods (EN 14035-29:2004) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010
HRN EN 14035-20:2008 en Pirotehnika – 20. dio: Skakajuće prskalice (pucketalice) – Specifikacija i metode ispitivanja (EN 14035-20:2005) Fireworks – Part 20: Jumping crackers – Specification and test methods (EN 14035-20:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010	HRN EN 14035-31:2008 en Pirotehnika – 31. dio: Pirotehnički topovi (mužari) – Specifikacija i metode ispitivanja (EN 14035-31:2005) Fireworks – Part 31: Shell-in-mortars – Specification and test methods (EN 14035-31:2005) - zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-33:2008 en  
Pirotehnika – 33. dio: Zvрkovi – Specifikacije i metode ispitivanja (EN 14035-33:2005)  
Fireworks – Part 33: Spinners – Specification and test methods (EN 14035-33:2005)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-34:2004 en  
Pirotehnika – 34. dio: Stolni vatromet – Specifikacije i metode ispitivanja (EN 14035-34:2003)  
Fireworks – Part 34: Table bombs – Specification and test methods (EN 14035-34:2003)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-34:2004/Ispr.1:2008 en  
Pirotehnika – 34. dio: Stolni vatromet – Specifikacije i metode ispitivanja (EN 14035-34:2003/AC:2005)  
Fireworks – Part 34: Table bombs – Specification and test methods (EN 14035-34:2003/AC:2005)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-35:2008 en  
Pirotehnika – 35. dio: Udarne bombice – Specifikacija i metode ispitivanja (EN 14035-35:2004)  
Fireworks – Part 35: Throwdowns – Specification and test methods (EN 14035-35:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-36:2008 en  
Pirotehnika – 36. dio: Kotači – Specifikacija i metode ispitivanja (EN 14035-36:2004)  
Fireworks – Part 36: Wheels – Specification and test methods (EN 14035-36:2004)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

HRN EN 14035-38:2008 en  
Pirotehnika – 38. dio: Pucajuće tube (cilindri ili cijevi) – Specifikacija i metode ispitivanja (EN 14035-38:2006)  
Fireworks – Part 38: Shot tubes – Specification and test methods (EN 14035-38:2006)  
- zamijenjena s: HRN EN 15947-3:2010, HRN EN 15947-4:2010, HRN EN 15947-5:2010

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

HRN DIN 4103-1:2015 de  
Nenosivi unutarnji pregradni zidovi – 1. dio: Zahtjevi i ispitivanje (DIN 4103-1:2014)  
Nichtragende innere Trennwände – Teil 1: Anforderungen und Nachweise (DIN 4103-1:2014)  
- zamijenjena s: HRN DIN 4103-1:2016

## **HZN/TO 519, Adhezivi**

HRN EN 923:2008 en  
Adhezivi – Nazivi i definicije (EN 923:2005+A1:2008)  
Adhesives – Terms and definitions (EN 923:2005+A1:2008)  
- zamijenjena s: HRN EN 923:2016

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

HRS CEN/TS 15864:2012 en  
Karakterizacija otpada – Ispitivanje ponašanja izluživanja za osnovnu karakterizaciju – Dinamička monolitna provjera izluživanja sa stalnom obnovom procjedne vode u uvjetima relevantnim za specificirane scenarije (CEN/TS 15864:2012)  
Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic monolithic leaching test with continuous leachant renewal under conditions relevant for specified scenario(s) (CEN/TS 15864:2012)  
- zamijenjena s: HRS CEN/TS 15864:2016

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

HRS CEN ISO/TS 12813:2010 en  
Electronic fee collection – Compliance check communication for autonomous systems (ISO/TS 12813:2009; CEN ISO/TS 12813:2009)  
- zamijenjena s: HRN EN ISO 12813:2016

HRN EN ISO 12855:2012 en  
Elektronička naplata – Razmjena informacija između pružanja usluge i naplate cestarine (ISO 12855:2012; EN ISO 12855:2012)  
Electronic fee collection – Information exchange between service provision and toll charging (ISO 12855:2012; EN ISO 12855:2012)  
- zamijenjena s: HRN EN ISO 12855:2016

HRN EN ISO 12855:2012/Ispr.1:2013 en  
Elektronička naplata – Razmjena informacija između pružanja usluge i naplate cestarine – Tehnički ispravak 1 (ISO 12855:2012/Cor 1:2013; EN ISO 12855:2012/AC:2013)  
Electronic fee collection – Information exchange between service provision and toll charging – Technical Corrigendum 1 (ISO 12855:2012/Cor 1:2013; EN ISO 12855:2012/AC:2013)  
- zamijenjena s: HRN EN ISO 12855:2016

HRS CEN ISO/TS 13141:2011 en  
Elektronička naplata – Komunikacija pojačane lokalizacije za autonome sustave (ISO/TS 13141:2010; CEN ISO/TS 13141:2010)  
Electronic fee collection – Localization augmentation communication for autonomous systems (ISO/TS 13141:2010; CEN ISO/TS 13141:2010)  
- zamijenjena s: HRN EN ISO 13141:2016

HRS CEN ISO/TS 13141:2011/Ispr.1:2013 en  
Elektronička naplata – Komunikacija pojačane lokalizacije za autonome sustave – Tehnički ispravak 1 (ISO/TS 13141:2010/Cor 1:2013; CEN ISO/TS 13141:2010/AC:2013)  
Electronic fee collection – Localization augmentation communication for autonomous systems – Technical Corrigendum 1 (ISO/TS 13141:2010/Cor 1:2013; CEN ISO/TS 13141:2010/AC:2013)  
- zamijenjena s: HRN EN ISO 13141:2016

HRN ISO 14813-1:2009 en  
Inteligentni transportni sustavi – Referentni model arhitekture ITS sektora – 1. dio: Područja primjene ITS-a, skupine usluga i usluge (ISO 14813-1:2007)  
Intelligent transport systems – Reference model architecture(s) for the ITS sector – Part 1: ITS service domains, service groups and services (ISO 14813-1:2007)  
- zamijenjena s: HRN ISO 14813-1:2016

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

HRN EN 14531-1:2008 en  
Željeznički sustav – Metode proračuna zaustavnih puteva, razmaka usporavanja i pritvrdnog kočenja – 1. dio: Osnovni algoritmi (EN 14531-1:2005)  
Railway applications – Methods for calculation of stopping distances, slowing distances and immobilization braking – Part 1: General algorithms (EN 14531-1:2005)  
- zamijenjena s: HRN EN 14531-1:2016

HRN EN 14531-6:2009 en  
Željeznički sustav – Metode proračuna zaustavnih puteva, puteva usporenja i pritvrdnog kočenja – 6. dio: Korak po korak proračun za motorne vlakove ili pojedinačna vozila (EN 14531-6:2009)  
Railway applications – Methods for calculation of stopping and slowing distances and immobilisation braking – Part 6: Step by step calculations for train sets or single vehicles (EN 14531-6:2009)  
- zamijenjena s: HRN EN 14531-2:2016

HRN EN 16404:2014 en  
Željeznički sustav – Zahtjevi za vraćanje u kolosijek i popravak željezničkih vozila (EN 16404:2014)  
Railway applications – Re-railing and recovery requirements for railway vehicles (EN 16404:2014)  
- zamijenjena s: HRN EN 16404:2016

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

HRN ISO 9928-1:2002 en  
Granici – Upute za upravljanje – 1. dio: Općenito (ISO 9928-1:1990)  
Cranes – Crane driving manual – Part 1: General (ISO 9928-1:1990)  
- zamijenjena s: HRN ISO 9928-1:2016

HRN ISO 11660-2:2003 en  
Granici – Pristup, zaštite i ograničenja – 2. dio: Mobilni granici (ISO 11660-2:1994)  
Cranes – Access, guards and restraints – Part 2: Mobile cranes (ISO 11660-2:1994)  
- zamijenjena s: HRN ISO 11660-2:2016

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

HRN EN ISO 6383-1:2008 en

Plastika – Film i folija – Određivanje zaderna čvrstoća – 1. dio: Metoda hlačnica (ISO 6383-1:1983; EN ISO 6383-1:2004)  
Plastics – Film and sheeting – Determination of tear resistance – Part 1: Trouser tear method (ISO 6383-1:1983; EN ISO 6383-1:2004)  
- zamijenjena s: HRN EN ISO 6383-1:2016

HRN EN ISO 20200:2008 en

Plastika – Određivanje stupnja raspada plastičnih materijala simulacijom kompostnih uvjeta u laboratorijskome mjerilu (ISO 20200:2004; EN ISO 20200:2005)  
Plastics – Determination of the degree of disintegration of plastic materials under simulated composting conditions in a laboratory-scale test (ISO 20200:2004; EN ISO 20200:2005)  
- zamijenjena s: HRN EN ISO 20200:2016

## **HZN/TO 534, Spremnići za teret**

HRN EN 13458-3:2004 en

Kriogenične posude – Nepomične posude izolirane vakuumom – 3. dio: Pogonski zahtjevi (EN 13458-3:2003)  
Cryogenic vessels – Static vacuum insulated vessels – Part 3: Operational requirements (EN 13458-3:2003)  
- zamijenjena s: HRN EN ISO 21009-2:2016

HRN EN 13458-3:2004/A1:2008 en

Kriogenične posude – Nepomične posude izolirane vakuumom – 3. dio: Pogonski zahtjevi (EN 13458-3:2003/A1:2005)  
Cryogenic vessels – Static vacuum insulated vessels – Part 3: Operational requirements (EN 13458-3:2003/A1:2005)  
- zamijenjena s: HRN EN ISO 21009-2:2016

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

HRN EN 1628:2012 en

Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na pravalu – Metoda ispitivanja za određivanje otpornosti pod statičkim opterećenjem (EN 1628:2011)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading (EN 1628:2011)  
- zamijenjena s: HRN EN 1628:2016

HRN EN 1629:2012 en

Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na pravalu – Metoda ispitivanja za određivanje otpornosti pod dinamičkim opterećenjem (EN 1629:2011)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading (EN 1629:2011)  
- zamijenjena s: HRN EN 1629:2016

HRN EN 1630:2012 en

Vrata za pješake, prozori, ovještene fasade, rešetke i kapci – Otpornost na pravalu – Metoda ispitivanja za određivanje otpornosti na pravalu priručnim alatom (EN 1630:2011)  
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts (EN 1630:2011)  
- zamijenjena s: HRN EN 1630:2016

## **HZN/TO 544, Strojni elementi**

HRN EN ISO 2320:2008 en

Čelične matice osigurane od odvijanja – Mehanička i funkcionalna svojstva (ISO 2320:2008; EN ISO 2320:2008)  
Prevailing torque type steel nuts – Mechanical and performance properties (ISO 2320:2008; EN ISO 2320:2008)  
- zamijenjena s: HRN EN ISO 2320:2016

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

HRN EN 13201-2:2008 en

Cestovna rasvjeta – 2. dio: Zahtijevana svojstva (EN 13201-2:2003)  
Road lighting – Part 2: Performance requirements (EN 13201-2:2003)  
- zamijenjena s: HRN EN 13201-2:2016

HRN EN 13201-3:2008 en

Cestovna rasvjeta – 3. dio: Proračun svojstava (EN 13201-3:2003+AC:2007)  
Road lighting – Part 3: Calculation of performance (EN 13201-3:2003+AC:2007)  
- zamijenjena s: HRN EN 13201-3:2016

HRN EN 13201-4:2008 en

Cestovna rasvjeta – 4. dio: Metode mjerjenja svojstava rasvjete (EN 13201-4:2003)  
Road lighting – Part 4: Methods of measuring lighting performance (EN 13201-4:2003)  
- zamijenjena s: HRN EN 13201-4:2016

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

HRN EN 1420-1:2005 en

Utjecaj organskih materijala na vodu namijenjenu ljudskoj uporabi – Određivanje mirisa i okusa vode u cijevnim sustavima – 1. dio: Ispitna metoda (EN 1420-1:1999)  
Influence of organic materials on water intended for human consumption – Determination of odour and flavour assessment of water in piping systems – Part 1: Test method (EN 1420-1:1999)  
- zamijenjena s: HRN EN 1420:2016

HRN EN 15975-1:2011 en

Osiguranje opskrbe vodom za piće – Smjernice za upravljanje rizikom i krizom – 1. dio: Upravljanje krizom (EN 15975-1:2011)  
Security of drinking water supply – Guidelines for risk and crisis management – Part 1: Crisis management (EN 15975-1:2011)  
- zamijenjena s: HRN EN 15975-1:2016

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

HRN EN 285:2010 en

Sterilizatori – Parni sterilizatori – Veliki sterilizatori (EN 285:2006+A2:2009)  
Sterilization – Steam sterilizers – Large sterilizers (EN 285:2006+A2:2009)  
- zamijenjena s: HRN EN 285:2016

HRN EN ISO 14644-1:2005 en

Čisti prostori i odgovarajući kontrolirani okoliš – 1. dio: Razredba čistoće zraka (ISO 14644-1:1999; EN ISO 14644-1:1999)  
Cleanrooms and associated controlled environments – Part 1: Classification of air cleanliness (ISO 14644-1:1999; EN ISO 14644-1:1999)  
- zamijenjena s: HRN EN ISO 14644-1:2016

HRN EN ISO 14644-2:2005 en

Čisti prostori i odgovarajući kontrolirani okoliš – 2. dio: Specifikacije za ispitivanje i praćenje radi potvrđivanja stalne usklađenošću s normom ISO 14644-1 (ISO 14644-2:2000; EN ISO 14644-2:2000)  
Cleanrooms and associated controlled environments – Part 2: Specifications for testing and monitoring to prove continued compliance with ISO 14644-1 (ISO 14644-2:2000; EN ISO 14644-2:2000)  
- zamijenjena s: HRN EN ISO 14644-2:2016

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

HRN EN 13634:2011 en

Zaštitna obuća za vozače motocikla – Zahtjevi i metode ispitivanja (EN 13634:2010)  
Protective footwear for motorcycle riders – Requirements and test methods (EN 13634:2010)  
- zamijenjena s: HRN EN 13634:2016

## **HZN/TO 557, Zaštitna odjeća**

HRN EN 702:2001 en

Zaštitna odjeća – Zaštita od topline i plamena – Ispitna metoda: Određivanje prijenosa dodirne topoline kroz zaštitnu odjeću ili njezine materijale (EN 702:1994)  
Protective clothing – Protection against heat and flame – Test method: Determination of the contact heat transmission through protective clothing or its materials (EN 702:1994)  
- zamijenjena s: HRN EN 12127-1:2016

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

HRN EN 331:2000 en

Kuglaste i konusne plinske slavine za kućne plinske instalacije koje se ručno zatvaraju (EN 331:1998)  
Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings (EN 331:1998)  
- zamijenjena s: HRN EN 331:2016

HRN EN 331:2000/A1:2012 en

Kuglaste i konusne plinske slavine za kućne plinske instalacije koje se ručno zatvaraju (EN 331:1998/A1:2010)  
Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings (EN 331:1998/A1:2010)  
- zamijenjena s: HRN EN 331:2016

HRN EN 736-2:2007 hr,en,fr,de  
Zaporni uređaji – Nazivlje – 2. dio: Definicije sastavnih dijelova zapornih uređaja (EN 736-2:1997)  
Valves – Terminology – Part 2: Definition of components of valves (EN 736-2:1997)  
- zamijenjena s: HRN EN 736-2:2016

HRN EN 1503-4:2003 en  
Ventili – Materijali za kućišta, jarmove i pokrove – 4. dio: Bakrene legure specificirane u europskim normama (EN 1503-4:2002)  
Valves – Materials for bodies, bonnets and covers – Part 4: Copper alloys specified in European Standards (EN 1503-4:2002)  
- zamijenjena s: HRN EN 1503-4:2016

HRN EN ISO 17292:2007 en  
Metalne kuglaste slavine za naftnu, petrokemijsku i srodne industrije (ISO 17292:2004; EN ISO 17292:2004)  
Metal ball valves for petroleum, petrochemical and allied industries (ISO 17292:2004; EN ISO 17292:2004)  
- zamijenjena s: HRN EN ISO 17292:2016

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

HRS ENV 14237:2008 en  
Tekstilije u zdravstvenoj zaštiti (ENV 14237:2002)  
Textiles in the healthcare system (ENV 14237:2002)  
- zamijenjena s: HRS CEN/TS 14237:2016

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

HRN EN 720-2:2002 en  
Prenosive plinske boce – Plinovi i mješavine plinova – 2. dio: Određivanje zapaljivosti i oksidativnosti plinova i mješavina plinova (EN 720-2:1996)  
Transportable gas cylinders – Gases and gas mixtures – Part 2: Determination of flammability and oxidizing ability of gases and gas mixtures (EN 720-2:1996)  
- zamijenjena s: HRN EN ISO 10156:2010

HRN EN 1975:2002 en  
Prenosive plinske boce – Specifikacija za projekt i konstrukciju ponovno punjivih prenosivih bešavnih plinskih boca izrađenih od aluminija ili njegovih legura kapaciteta od 0,5 l do 150 l (EN 1975:1999)  
Transportable gas cylinders – Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres (EN 1975:1999)  
- zamijenjena s: HRN EN ISO 7866:2013,  
HRN EN ISO 7866:2013/I spr.1:2014

HRN EN 1975:2002/A1:2008 en  
Prenosive plinske boce – Specifikacija za projekt i konstrukciju ponovno punjivih prenosivih bešavnih plinskih boca izrađenih od aluminija ili njegovih legura kapaciteta od 0,5 l do 150 l (EN 1975:1999/A1:2003)  
Transportable gas cylinders – Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres (EN 1975:1999/A1:2003)  
- zamijenjena s: HRN EN ISO 7866:2013

HRN EN 1975:2002/I spr.1:2008 en  
Prenosive plinske boce – Specifikacija za projekt i konstrukciju ponovno punjivih prenosivih bešavnih plinskih boca izrađenih od aluminija ili njegovih legura kapaciteta od 0,5 l do 150 l (EN 1975:1999/AC:1999)  
Transportable gas cylinders – Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres (EN 1975:1999/AC:1999)  
- zamijenjena s: HRN EN ISO 7866:2013

HRN EN ISO 11623:2002 en  
Prenosive plinske boce – Periodični pregled i ispitivanje kompozitnih plinskih boca (ISO 11623:2002; EN ISO 11623:2002)  
Transportable gas cylinders – Periodic inspection and testing of composite gas cylinders (ISO 11623:2002; EN ISO 11623:2002)  
- zamijenjena s: HRN EN ISO 11623:2016

HRN EN 12205:2002 en  
Prenosive plinske boce – Jednokratno punjive metalne plinske boce (EN 12205:2001)  
Transportable gas cylinders – Non-refillable metallic gas cylinders (EN 12205:2001)  
- zamijenjena s: HRN EN ISO 11118:2015

HRN EN ISO 13340:2003 en  
Prenosive plinske boce – Ventili jednokratno punjivih boca – Specifikacija i ispitivanje prototipa (ISO 13340:2001; EN ISO 13340:2001)  
Transportable gas cylinders – Cylinder valves for non-refillable cylinders – Specification and prototype testing (ISO 13340:2001; EN ISO 13340:2001)  
- zamijenjena s: HRN EN ISO 11118:2015

HRN EN ISO 21007-2:2013 en  
Plinske boce – Identifikacija i označivanje uporabom tehnologije identificiranja radio-frekvencijom – 2. dio: Brojčane sheme za identifikaciju radio-frekvencije (ISO 21007-2:2013; EN ISO 21007-2:2013)  
Gas cylinders – Identification and marking using radio frequency identification technology – Part 2: Numbering schemes for radio frequency identification (ISO 21007-2:2013; EN ISO 21007-2:2013)  
- zamijenjena s: HRN EN ISO 21007-2:2016

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

HRN EN 13218:2008 en  
Alatni strojevi – Sigurnost – Nepomične brusilice (EN 13218:2002+A1:2008+AC:2008)  
Machine tools – Safety – Stationary grinding machines (EN 13218:2002+A1:2008+AC:2008)  
- zamijenjena s: HRN EN ISO 16089:2016

HRN EN 13218:2008/I spr.1:2013 en  
Alatni strojevi – Sigurnost – Nepomične brusilice (EN 13218:2002+A1:2008/AC:2010)  
Machine tools – Safety – Stationary grinding machines (EN 13218:2002+A1:2008/AC:2010)  
- zamijenjena s: HRN EN ISO 16089:2016

HRN EN 13236:2012 en  
Sigurnosni zahtjevi za superabrasive (EN 13236:2010)  
Safety requirements for superabrasive products (EN 13236:2010)  
- zamijenjena s: HRN EN 13236:2016

#### **HZN/TO 563, Sigurnost strojeva**

HRN EN 626-2:2008 en  
Sigurnost strojeva – Smjanjenje opasnosti za zdravlje od opasnih tvari koje ispuštaju strojevi – 2. dio: Metodologija pri postavljanju postupka verifikacije (EN 626-2:1996+A1:2008)  
Safety of machinery – Reduction of risk to health from hazardous substances emitted by machinery – Part 2: Methodology leading to verification procedures (EN 626-2:1996+A1:2008)  
- zamijenjena s: HRN EN ISO 14123-2:2016

HRN EN ISO 13849-1:2008 en  
Sigurnost strojeva – Sigurnosni dijelovi sustava za nadzor – 1. dio: Osnovna načela za projektiranje (ISO 13849-1:2006; EN ISO 13849-1:2008)  
Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design (ISO 13849-1:2006; EN ISO 13849-1:2008)  
- zamijenjena s: HRN EN ISO 13849-1:2016

HRN EN ISO 13849-1:2008/I spr.1:2009 en  
Sigurnost strojeva – Sigurnosni dijelovi sustava za nadzor – 1. dio: Osnovna načela za projektiranje (ISO 13849-1:2006/Cor 1:2009; EN ISO 13849-1:2008/AC:2009)  
Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design (ISO 13849-1:2006/Cor 1:2009; EN ISO 13849-1:2008/AC:2009)  
- zamijenjena s: HRN EN ISO 13849-1:2016

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

HRN EN 926-1:2008 en  
Oprema za paraglajding – Paraglajderi – 1. dio: Zahtjevi i metode ispitivanja (EN 926-1:2006)  
Paragliding equipment – Paragliders – Part 1: Requirements and test methods for structural strength (EN 926-1:2006)  
- zamijenjena s: HRN EN 926-1:2016

HRN EN 1972:2008 en  
Pribor za ronjenje – Disalice – Sigurnosni zahtjevi i metode ispitivanja (EN 1972:1997)  
Diving accessories – Snorkels – Safety requirements and test methods (EN 1972:1997)  
- zamijenjena s: HRN EN 1972:2016

HRN EN 13451-2:2008 en

Oprema za bazene – 2. dio: Dodatni posebni sigurnosni zahtjevi i metode ispitivanja za ljestve, ljestve sa stubama i rukohvate (EN 13451-2:2001+AC:2003)  
Swimming pool equipment – Part 2: Additional specific safety requirements and test methods for ladders, stepladders and handle bends (EN 13451-2:2001+AC:2003)  
- zamijenjena s: HRN EN 13451-2:2016

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

HRS CLC/TS 50459-2:2008 en

Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Europski sustav upravljanja željezničkim prometom (ERTMS) – Sučelje strojovođa-vozilo – 2. dio: Ergonomski razmještaj ERTMS/ETCS informacija (CLC/TS 50459-2:2005)  
Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver-Machine Interface – Part 2: Ergonomic arrangements of ERTMS/ETCS information (CLC/TS 50459-2:2005)  
- zamijenjena s: HRS CLC/TS 50459-2:2016

HRS CLC/TS 50459-3:2008 en

Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Europski sustav upravljanja željezničkim prometom (ERTMS) – Sučelje strojovođa-vozilo – 3. dio: Ergonomski razmještaj ERTMS/GSM-R informacija (CLC/TS 50459-3:2005)  
Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver-Machine Interface – Part 3: Ergonomic arrangements of ERTMS/GSM-R information (CLC/TS 50459-3:2005)  
- zamijenjena s: HRS CLC/TS 50459-3:2016

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

HRN EN 60335-2-14:2008/A11:2012/lspr.1:2014 en

Kućanski i slični električni aparati – Sigurnost – Dio 2-14: Posebni zahtjevi za kuhinjske strojeve (EN 60335-2-14:2006/A11:2012/AC:2013)  
Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines (EN 60335-2-14:2006/A11:2012/AC:2013)  
- zamijenjena s: HRN EN 60335-2-14:2008/A12:2016

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

HRN IEC 60364-7-713:1999 en

Električne instalacije zgrada – 7. dio: Zahtjevi za posebne instalacije ili prostore – 713. odjeljak: Namještaj (IEC 60364-7-713:1996)  
Electrical installations of buildings – Part 7: Requirements for special installations or locations – Section 713: Furniture (IEC 60364-7-713:1996)  
- zamijenjena s: HRN IEC 60364-7-713:2016

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

HRN EN ISO 7623:2009 en

Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment (ISO 7623:1996; EN ISO 7623:1997)  
- zamijenjena s: HRN EN ISO 7623:2016

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

HRN EN ISO 1135-4:2012 en

Oprema za transfuziju za medicinsku primjenu – 4. dio: Setovi za transfuziju za jednokratnu upotrebu (ISO 1135-4:2012; EN ISO 1135-4:2012)  
Transfusion equipment for medical use – Part 4: Transfusion sets for single use (ISO 1135-4:2012; EN ISO 1135-4:2012)  
- zamijenjena s: HRN EN ISO 1135-4:2016, HRN EN ISO 1135-5:2016

HRN EN ISO 4074:2008 en

Kondomi od prirodnog lateksa – Zahtjevi i metode ispitivanja (ISO 4074:2002+Cor 1:2003+Cor 2:2008; EN ISO 4074:2002+AC:2004+AC:2008)  
Natural latex rubber condoms – Requirements and test methods (ISO 4074:2002+Cor 1:2003+Cor 2:2008; EN ISO 4074:2002+AC:2004+AC:2008)  
- zamijenjena s: HRN EN ISO 4074:2016

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

HRN EN 2633:2008 en

Nizovi o zrakoplovstvu – Legura aluminija AL-P2024-T3511 – Ekstrudirane šipke i profili 1,2 mm  $\leq$  a ili D  $\leq$  150 mm s kontroliranim okolnim grubim zrnom (EN 2633:1993)  
Aerospace series – Aluminium alloy AL-P2024-T3511 – Extruded bars and sections 1,2 mm  $\leq$  a or D  $\leq$  150 mm with peripheral coarse grain control (EN 2633:1993)  
- zamijenjena s: HRN EN 2633:2016

HRN EN 3660-001:2008 en

Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 001. dio: Tehnička specifikacija (EN 3660-001:2006)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 001: Technical specification (EN 3660-001:2006)  
- zamijenjena s: HRN EN 3660-001:2016

HRN EN 3660-002:2008 en

Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 002. dio: Indeks norma za proizvod (EN 3660-002:2006)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 002: Index of product standards (EN 3660-002:2006)  
- zamijenjena s: HRN EN 3660-002:2016

HRN EN 3660-062:2011 en

Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 062. dio: Kabelski izlaz, tip K, 90°, za elemente koje se skupljaju na toplini, oklopljeni, zabrtljeni, samozatvarajući za EN 3645 – Norma za proizvod (EN 3660-062:2009)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 062: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 – Product standard (EN 3660-062:2009)  
- zamijenjena s: HRN EN 3660-062:2016

HRN EN 3660-064:2011 en

Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 064. dio: Kabelski izlaz, tip K, ravni, za elemente koje se skupljaju na toplini, oklopljeni, zabrtljeni, samozatvarajući za EN 2997 i EN 4067 – Norma za proizvod (EN 3660-064:2009)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 064: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 and EN 4067 – Product standard (EN 3660-064:2009)  
- zamijenjena s: HRN EN 3660-064:2016

HRN EN 3660-065:2012 en

Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 065. dio: Kabelski izlaz, tip K, 90°, za elemente koje se skupljaju na toplini, oklopljeni, zabrtljeni, samozatvarajući za EN 2997 i EN 4067 – Norma za proizvod (EN 3660-065:2009)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 065: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 and EN 4067 – Product standard (EN 3660-065:2009)

- zamijenjena s: HRN EN 3660-065:2016

HRN EN 3997:2008 en

Nizovi o zrakoplovstvu – Legura aluminija AL-P2024-T3 – Lim i traka 0,4 mm  $\leq$  a  $\leq$  6 mm (EN 3997:2007)  
Aerospace series – Aluminium alloy AL-P2024-T3 – Sheet and strip 0,4 mm  $\leq$  a  $\leq$  6 mm (EN 3997:2007)  
- zamijenjena s: HRN EN 3997:2016

HRN EN 4531-002:2012 en

Nizovi o zrakoplovstvu – Spojnice, optičke, kružne, jednostrukе i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravn kontakti – 002. dio: Specifikacije značajki i položaj kontakata (EN 4531-002:2012)  
Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 002: Specification of performance and contact arrangements (EN 4531-002:2012)  
- zamijenjena s: HRN EN 4531-002:2016

HRN EN 4531-101:2012 en

Nizovi o zrakoplovstvu – Spojnice, optičke, kružne, jednostrukie i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravnii kontakti – 101. dio: Optički kontakt za EN 4641-100 kabel – 55 °C to 125 °C – Norma za proizvod(EN 4531-101:2012)

Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 101: Optical contact for EN 4641-100 cable – 55 °C to 125 °C – Product standard (EN 4531-101:2012)  
- zamijenjena s: HRN EN 4531-101:2016

HRN EN 4644-131:2012 en

Nizovi o zrakoplovstvu – Spojnice, električne i optičke, pravokutne, modularne, s pravokutnim umetkom, stalne radne temperature 175 °C (ili 125 °C) – 131. dio: Veličina 3 utikača za primjenu za stalak i ploču – Norma za proizvod (EN 4644-131:2011)

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 131: Size 3 plug for rack and panel applications – Product standard (EN 4644-131:2011)

- zamijenjena s: HRN EN 4644-131:2016

HRN EN 9102:2008 en

Nizovi o zrakoplovstvu – Sustav kvalitete – Ispitivanje prvog dijela (EN 9102:2006)  
Aerospace series – Quality systems – First article inspection (EN 9102:2006)  
- zamijenjena s: HRN EN 9102:2016

HRN EN 9131:2011 en

Nizovi o zrakoplovstvu – Sustavi upravljanja kvalitetom – Dokumentacija o nesukladnosti (EN 9131:2009)  
Aerospace series – Quality management systems – Nonconformance documentation (EN 9131:2009)  
- zamijenjena s: HRN EN 9131:2016

## 1.6 Ispravci hrvatskih norma

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

### HZN/TO 135, Nerazorna ispitivanja

#### • umjesto

HRN EN 13477-2:2010

Nerazorno ispitivanje **akustičkom emisijom** – Karakterizacija opreme – 2. dio: Provjeravanje radnih značajka (EN 13477-2:2010)  
Non destructive testing **acoustic emission** – Equipment characterisation – Part 2: Verification of operating characteristic (EN 13477-2:2010)

#### • treba biti

HRN EN 13477-2:2010

Nerazorno ispitivanje – **Akustička emisija** – Karakterizacija opreme – 2. dio: Provjeravanje radnih značajka (EN 13477-2:2010)  
Non-destructive testing – **Acoustic emission** – Equipment characterisation – Part 2: Verification of operating characteristic (EN 13477-2:2010)

#### • umjesto

HRN EN 15495:2008

Nerazorno ispitivanje – **Akustična emisija** – Ispitivanje metalne tlačne opreme tijekom potvrđivanja – Lociranje područja izvora AE (EN 15495:2007)  
Non Destructive testing – Acoustic emission – Examination of metallic pressure equipment during proof testing – Zone location of AE sources (EN 15495:2007)

#### • treba biti

HRN EN 15495:2008

Nerazorno ispitivanje – **Akustička emisija** – Ispitivanje metalne tlačne opreme tijekom potvrđivanja – Lociranje područja izvora **akustičke emisije (AE)** (EN 15495:2007)  
Non Destructive testing – Acoustic emission – Examination of metallic pressure equipment during proof testing – Zone location of AE sources (EN 15495:2007)

#### • umjesto

HRN EN 16018:2013

Nerazorno ispitivanje – Nazivlje – Nazivi koji se upotrebljavaju pri ultrazvučnom ispitivanju faznim sondama (EN 16018:2011)  
Non-destructive testing – Terminology – Terms used in ultrasonic testing with phased arrays (EN 16018:2011)

#### • treba biti

HRN EN 16018:2013

Nerazorno ispitivanje – Nazivlje – Nazivi koji se upotrebljavaju pri ultrazvučnom ispitivanju višepretvorničkom tehnikom (EN 16018:2011)  
Non-destructive testing – Terminology – Terms used in ultrasonic testing with phased arrays (EN 16018:2011)

#### • umjesto

HRN EN 16392-2:2014

Nerazorno ispitivanje – Karakterizacija i provjera ultrazvučnih višepretvorničkih, fazno upravljanih sustava – 2. dio: Sonde (EN 16392-2:2014)  
Non-destructive testing – Characterisation and verification of ultrasonic phased array equipment – Part 2: Probes (EN 16392-2:2014)

#### • treba biti

HRN EN 16392-2:2014

Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 2. dio: Sonde (EN 16392-2:2014)  
Non-destructive testing – Characterisation and verification of ultrasonic phased array equipment – Part 2: Probes (EN 16392-2:2014)

#### • umjesto

HRN EN ISO 18563-1:2015

Nerazorno ispitivanje – Karakterizacija i provjera ultrazvučne opreme s faznim sondama – 1. dio: Instrumenti (ISO 18563-1:2015; EN ISO 18563-1:2015)  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 1: Instruments (ISO 18563-1:2015; EN ISO 18563-1:2015)

#### • treba biti

HRN EN ISO 18563-1:2015

Nerazorno ispitivanje – Karakterizacija i provjeravanje opreme ultrazvučne višepretvorničke tehnike – 1. dio: Instrumenti (ISO 18563-1:2015; EN ISO 18563-1:2015)  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 1: Instruments (ISO 18563-1:2015; EN ISO 18563-1:2015)

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

#### • umjesto

HRI CEN/TR 13387-5:2015

Proizvodi za dojenčad i malu djecu – Opće smjernice o sigurnosti – 5. dio: Informacija o proizvodu (CEN/TR 13387-5:2015)  
Child use and care articles – General safety guidelines – Part 5: Product information (CEN/TR 13387-5:2015)

#### • treba biti

HRI CEN/TR 13387-5:2015

Proizvodi za dojenčad i malu djecu – Opće smjernice o sigurnosti – 5. dio: Informacijski o proizvodu (CEN/TR 13387-5:2015)  
Child use and care articles – General safety guidelines – Part 5: Product information (CEN/TR 13387-5:2015)

#### • umjesto

HRN EN 14344:2009

Proizvodi za dojenčad i malu djecu – Dječja sjedala za bicikle – Sigurnosni zahtjevi i metode (EN 14344:2004)  
Child use and care articles – Child seats for cycles – Safety requirements and test methods (EN 14344:2004)

#### • treba biti

HRN EN 14344:2009

Proizvodi za dojenčad i malu djecu – Dječja sjedala za bicikle – Sigurnosni zahtjevi i metode **ispitivanja** (EN 14344:2004)  
Child use and care articles – Child seats for cycles – Safety requirements and test methods (EN 14344:2004)



- **umjesto**  
 HRI CEN/TR 16411:2014  
 Proizvodi za dojenčad i malu djecu – **2014:** kompilacija tumačenja norma iz područja rada CEN/TC 252 (CEN/TR 16411:2014)  
 Child use and care articles – 2014 compiled interpretations of CEN/TC 252 standards (CEN/TR 16411:2014)
  - **treba biti**  
 HRI CEN/TR 16411:2014  
 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)
- HZN/TO 534, Spremnići za teret**
- **umjesto**  
 HRN EN 14620-1:2008  
 Projektiranje i proizvodnja **bočno-ugrađenih**, vertikalnih, cilindričnih, **s ravnim dnom čeličnih spremnika** za skladištenje rashlađenih ukapljenih plinova pri radnoj temperaturi između 0 °C i -165 °C – 1. dio: Općenito (EN 14620-1:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 1: General (EN 14620-1:2006)
  - **treba biti**  
 HRN EN 14620-1:2008  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova pri radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 1. dio: Općenito (EN 14620-1:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 1: General (EN 14620-1:2006)
  - **umjesto**  
 HRN EN 14620-2:2008  
 Projektiranje i proizvodnja **bočno-ugrađenih**, vertikalnih, cilindričnih, **s ravnim dnom čeličnih spremnika** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C – 2. dio: Metalni dijelovi (EN 14620-2:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 2: Metallic components (EN 14620-2:2006)
  - **treba biti**  
 HRN EN 14620-2:2008  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 2. dio: Metalni dijelovi (EN 14620-2:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 2: Metallic components (EN 14620-2:2006)
  - **umjesto**  
 HRI CEN/TR 16396:2015  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 3. dio: Betonski dijelovi (EN 14620-3:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 3: Concrete components (EN 14620-3:2006)
  - **treba biti**  
 HRI CEN/TR 16396:2015  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 3. dio: Betonski dijelovi (EN 14620-3:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 3: Concrete components (EN 14620-3:2006)
- **umjesto**  
 HRI CEN/TR 14620-4:2008  
 Projektiranje i proizvodnja **bočno-ugrađenih**, vertikalnih, cilindričnih, **s ravnim dnom čeličnih spremnika** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C – 4. dio: Dijelovi za izolaciju (EN 14620-4:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 4: Insulation components (EN 14620-4:2006)
  - **treba biti**  
 HRI CEN/TR 14620-4:2008  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 4. dio: Dijelovi za izolaciju (EN 14620-4:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 4: Insulation components (EN 14620-4:2006)
  - **umjesto**  
 HRN EN 14620-5:2008  
 Projektiranje i proizvodnja **bočno-ugrađenih**, vertikalnih, cilindričnih, **s ravnim dnom čeličnih spremnika** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C – 5. dio: Ispitivanje, sušenje, čišćenje i podhlađivanje (EN 14620-5:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 5: Testing, drying, purging and cool-down (EN 14620-5:2006)
  - **treba biti**  
 HRN EN 14620-5:2008  
 Projektiranje i proizvodnja vertikalnih, cilindričnih **čeličnih spremnika s ravnim dnom** za skladištenje rashlađenih ukapljenih plinova na radnoj temperaturi između 0 °C i -165 °C, **koji se izrađuju na gradilištu** – 5. dio: Ispitivanje, sušenje, čišćenje i podhlađivanje (EN 14620-5:2006)  
 Design and manufacture of site built, vertical, cylindrical, flat-bottomed steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -165 °C – Part 5: Testing, drying, purging and cool-down (EN 14620-5:2006)
- HZN/TO 571, Sport, igrališta i ostali rekreativski sadržaji i oprema**
- **umjesto**  
 HRI CEN/TR 1176:2008 i njihovih dijelova (CEN/TR 16396:2012)  
 Oprema za dječja igrališta – Odgovori na upite povezane s tumačenjem **EN 1176:2008** i njihovih dijelova (CEN/TR 16396:2012)  
 Playground equipment for children – Replies to requests for interpretation of EN 1176:2008 and its parts (CEN/TR 16396:2012)
  - **treba biti**  
 HRI CEN/TR 1176:2008  
 Oprema za dječja igrališta – Odgovori na zahtjeve za tumačenje niza norma **EN 1176:2008** (CEN/TR 16396:2012)  
 Playground equipment for children – Replies to requests for interpretation of EN 1176:2008 and its parts (CEN/TR 16396:2012)
- HZN/TO T4, Normizacija u telekomunikacijama**
- **umjesto**  
 HRN EN 302 769 V1.1.1:2012  
 Digitalna **videodifuzija** (DVB) – Struktura okvira kodiranja kanala i modulacije za kablovske sustave druge generacije sustava digitalnog prijenosa (DVB-C2) (EN 302 769 V1.1.1:2010)  
 Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2) (EN 302 769 V1.1.1:2010)

• **treba biti**

HRN EN 302 769 V1.1.1:2012

Digitalna **video difuzija** (DVB) – Struktura okvira kodiranja kanala i modulacije za kablovske sustave druge generacije sustava digitalnog prijenosa (DVB-C2) (EN 302 769 V1.1.1:2010)

Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2) (EN 302 769 V1.1.1:2010)

• **umjesto**

HRN EN 302 769 V1.2.1:2013

Digitalna **video radijska difuzija** (DVB) – Okvir strukture kanala kodiranja i modulacije za drugu generaciju digitalnoga sustava prijenosa za kabelske sustave (DVB-C2) (EN 302 769 V1.2.1:2011)

Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2) (EN 302 769 V1.2.1:2011)

• **treba biti**

HRN EN 302 769 V1.2.1:2013

Digitalna **video difuzija** (DVB) – Okvir strukture kanala kodiranja i modulacije za drugu generaciju digitalnoga sustava prijenosa za kabelske sustave (DVB-C2) (EN 302 769 V1.2.1:2011)

Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2) (EN 302 769 V1.2.1:2011)

• **umjesto**

HRN EN 300 392-3-1 V1.3.1:2012

Terestrijalni **ranking** radio (TETRA) – Glas plus podatci (V+D) – 3. dio: Međudjelovanje na **Inter-System** sučelju (ISI) – 1. pod-dio: **Generalni dizajn** (EN 300 392-3-1 V1.3.1:2010) Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 1: General design (EN 300 392-3-1 V1.3.1:2010)

• **treba biti**

HRN EN 300 392-3-1 V1.3.1:2012

Terestrijalni **međumjesni** radio (TETRA) – Glas plus podaci (V+D) – 3. dio: Međudjelovanje na **medusustavnom** sučelju (ISI) – 1. poddio: **Opća izvedba** (EN 300 392-3-1 V1.3.1:2010) Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 1: General design (EN 300 392-3-1 V1.3.1:2010)

• **umjesto**

HRN ETS 300 744 V1:2013

**Radiodifuzija digitalnog videosignalata** (DVB) – Struktura vremenskog odabira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (ETS 300 744 ed.1:1997) Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (ETS 300 744 ed.1:1997)

• **treba biti**

HRN ETS 300 744 V1:2013

Digitalna **video difuzija** (DVB) – Struktura vremenskog odabira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (ETS 300 744 ed.1:1997) Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (ETS 300 744 ed.1:1997)

• **umjesto**

HRN EN 300 744 V1.1.2:2008

Digitalna **videoradiodifuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.1.2:1997)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.1.2:1997)

• **treba biti**

HRN EN 300 744 V1.1.2:2008

Digitalna **video difuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.1.2:1997)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.1.2:1997)

• **umjesto**

HRN EN 300 744 V1.2.1:2008

Digitalna **videoradiodifuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.2.1:1999)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.2.1:1999)

• **treba biti**

HRN EN 300 744 V1.2.1:2008

Digitalna **video difuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.2.1:1999)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.2.1:1999)

• **umjesto**

HRN EN 300 744 V1.4.1:2008

Digitalna **videoradiodifuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.4.1:2001)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.4.1:2001)

• **treba biti**

HRN EN 300 744 V1.4.1:2008

Digitalna **video difuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.4.1:2001)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.4.1:2001)

• **umjesto**

HRN EN 300 744 V1.5.1:2008

Digitalna **videoradiodifuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.5.1:2004)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.5.1:2004)

• **treba biti**

HRN EN 300 744 V1.5.1:2008

Digitalna **video difuzija** (DVB) – Struktura okvira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.5.1:2004)

Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.5.1:2004)

• **umjesto**

HRN EN 300 744 V1.6.1:2009

**Radiodifuzija digitalnog videosignalata** (DVB) – Struktura vremenskog odabira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.6.1:2009)

Digital video broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.6.1:2009)

• **treba biti**

HRN EN 300 744 V1.6.1:2009

Digitalna **video difuzija** (DVB) – Struktura vremenskog odabira, kodiranje kanala i modulacija za digitalnu terestrijalnu televiziju (EN 300 744 V1.6.1:2009)

Digital video broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television (EN 300 744 V1.6.1:2009)

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

• **umjesto**

HRN ISO 3691-1:2015

Industrijska vozila – Sigurnosni zahtjevi i **provjera** – 1. dio: Industrijska vozila na vlastiti pogon, osim vozila bez vozača, vozila s promjenjivim mometom i teretnih vozila – **Tehnički ispravak** (ISO 3691-1:2011, uključujući Cor 1:2013; EN ISO 3691-1:2015)

Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011, including Cor 1:2013; EN ISO 3691-1:2015)



- **treba biti**
- HRN EN ISO 3691-1:2015  
Industrijska vozila – Sigurnosni zahtjevi i **verifikacija** – 1. dio:  
Industrijska vozila na vlastiti pogon, osim vozila bez vozača, vozila s promjenjivim dometom i teretnih vozila (ISO 3691-1:2011, uključujući Cor 1:2013; EN ISO 3691-1:2015)  
Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011, including Cor 1:2013; EN ISO 3691-1:2015)

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

- **umjesto**
- HRN EN 61029-2-9:2012/A11:2014  
Sigurnost prijevoznih elektromotornih alata – Dio 2-9: Posebni zahtjevi za kutne pile (EN 61029-2-9:2012/A11:2013)  
Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws (EN 61029-2-9:2012/A11:2013)
- **treba biti**
- HRN EN 61029-2-9:2013/A11:2014  
Sigurnost prijevoznih elektromotornih alata – Dio 2-9: Posebni zahtjevi za kutne pile (EN 61029-2-9:2012/A11:2013)  
Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws (EN 61029-2-9:2012/A11:2013)

## **1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku**

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

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

- HRN EN 300 019-2-3 V2.1.2:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-3: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-3 V2.1.2:1999)  
Equipment Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-3: Specification of environmental tests – Stationary use at weatherprotected locations (EN 300 019-2-3 V2.1.2:1999)
- HRN EN 300 019-2-3 V2.2.1:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-3: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-3 V2.2.1:2003)  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-3: Specification of environmental tests – Stationary use at weatherprotected locations (EN 300 019-2-3 V2.2.1:2003)
- HRN EN 300 019-2-3 V2.2.2:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-3: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-3 V2.2.2:2003)  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-3: Specification of environmental tests – Stationary use at weatherprotected locations (EN 300 019-2-3 V2.2.2:2003)
- HRN EN 300 225 V1.4.1:2009  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Tehničke karakteristike i metode mjerjenja za prijenosni VHF radiotelefonski aparat u čamcu za spašavanje (EN 300 225 V1.4.1:2004)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Technical characteristics and methods of measurement for survival craft portable VHF radiotelephone apparatus (EN 300 225 V1.4.1:2004)
- HRN EN 300 392-3-1 V1.2.1:2009  
Terestrijalni međumjesni radio (TETRA) – Glas plus podaci (V+D) – 3. dio: Medudjelovanje na medusistemskom sučelju (ISI) – 1. poddio: Opća izvedba (EN 300 392-3-1 V1.2.1:2002)  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 1: General design (EN 300 392-3-1 V1.2.1:2002)

- HRN EN 301 025 V1.1.1:2009  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Tehničke karakteristike i metode mjerjenja za VHF radiotelefonsku opremu za opću komunikaciju i pridruženu opremu za klasu „D“ digitalnog selektivnoga pozivanja (DSC) (EN 301 025 V1.1.1:1998)  
ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM) – Technical characteristics and methods of measurement for VHF radiotelephone equipment for general communications and associated equipment for Class “D” Digital Selective Calling (DSC) (EN 301 025 V1.1.1:1998)

- HRN EN 301 178 V1.1.1:2009  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Tehničke karakteristike i metode mjerjenja za prijenosnu VHF radiotelefonsku opremu za pomorsku pokretnu službu u VHF pojasevima (samo za primjenu koja nije GMDSS) (EN 301 178 V1.1.1:1999)  
ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM) – Technical characteristics and methods of measurement for portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands (for non-GMDSS applications only) (EN 301 178 V1.1.1:1999)

- HRN ETS 300 019-2-4 V1:2010  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (ETS 300 019-2-4 ed.1:1994+A1:1997)  
Equipment Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations (ETS 300 019-2-4 ed.1:1994+A1:1997)

- HRN EN 300 019-2-4 V2.1.2:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-4 V2.1.2:1999)  
Equipment Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations (EN 300 019-2-4 V2.1.2:1999)

- HRN EN 300 019-2-4 V2.2.1:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-4 V2.2.1:2003)  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations (EN 300 019-2-4 V2.2.1:2003)

- HRN EN 300 019-2-4 V2.2.2:2009  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama (EN 300 019-2-4 V2.2.2:2003)  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations (EN 300 019-2-4 V2.2.2:2003)

## **1.10 Prijevodi hrvatskih normativnih dokumenata**

### **HN/TU 548, Konstrukcijski eurokodovi**

Sljedeći hrvatski nacionalni dodatak objavljen na hrvatskome jeziku sada je dostupan i na engleskome jeziku:

- HRN EN 1992-1-1:2013/NA:2015 hr-en izv  
Eurokod 2: Projektiranje betonskih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade – Nacionalni dodatak Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings – National Annex

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

### 01.040.29 Elektrotehnika (Rječnici)

#### Europska normizacija CENELEC

EN 60633:1999/A2:2015  
Terminology for high-voltage direct current (HVDC) transmission (IEC 60633:1998/A2:2015)

#### Međunarodna normizacija IEC

IEC 60050-815:2015  
International Electrotechnical Vocabulary – Part 815: Superconductivity

### 01.040.37 Tehnologija obrade slike (Rječnici)

#### Međunarodna normizacija ISO

ISO 14132-1:2015  
Optics and photonics – Vocabulary for telescopic systems – Part 1: General terms and alphabetical indexes of terms in ISO 14132

ISO 14132-2:2015  
Optics and photonics – Vocabulary for telescopic systems – Part 2: Terms for binoculars, monoculars and spotting scopes

ISO 19262:2015  
Photography – Archiving Systems – Vocabulary

### 01.040.43 Cestovna vozila (Rječnici)

#### Međunarodna normizacija ISO

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

ISO/TR 13062:2015  
Electric mopeds and motorcycles – Terminology and classification

### 01.040.49 Zrakoplovna i svemirska tehnika (Rječnici)

#### Međunarodna normizacija ISO

ISO 16682:2015  
Aerospace series – Terminology for clamping devices

### 01.040.53 Oprema za rukovanje materijalima (Rječnici)

#### Međunarodna normizacija ISO

ISO 5053-1:2015  
Industrial trucks – Terminology and classification – Part 1: Types of industrial trucks

### 01.040.55 Ambalaža, pakiranje i distribucija robe (Rječnici)

#### Međunarodna normizacija ISO

ISO 21067-2:2015  
Packaging – Vocabulary – Part 2: Packaging and the environment terms

### 01.040.59 Tekstilna i kožarska tehnologija (Rječnici)

#### Međunarodna normizacija ISO

ISO 18600:2015  
Textile machinery and accessories – Web roller cards – Terms and definitions

### 01.040.73 Rudarstvo i rude (Rječnici)

#### Međunarodna normizacija ISO

ISO 18875:2015  
Coalbed methane exploration and development – Terms and definitions

### 01.040.87 Industrija boja (Rječnici)

#### Međunarodna normizacija ISO

ISO 18451-1:2015  
Pigments, dyestuffs and extenders – Terminology – Part 1: General terms

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

#### Europska normizacija CEN

EN 131-1:2015  
Ladders – Part 1: Terms, types, functional sizes

EN ISO 23953-1:2015  
Oilseed meals – Determination of oil content – Rapid extraction method (ISO 22630:2015)

#### Međunarodna normizacija ISO

ISO 23953-1:2015  
Refrigerated display cabinets – Part 1: Vocabulary

### 01.080.50 Grafički simboli za upotrebu na tehničkim crtežima u informatičkoj tehnici i telekomunikacijama i odgovarajućoj dokumentaciji o tehničkome proizvodu

#### Međunarodna normizacija ISO

ISO/IEC 24779-9:2015  
Information technology – Cross-jurisdictional and societal aspects of implementation of biometric technologies – Pictograms, icons and symbols for use with biometric systems – Part 9: Vascular applications

## **01.080.99 Ostali grafički simboli**

**Međunarodna normizacija**  
ISO

ISO 780:2015  
Packaging – Distribution packaging – Graphical symbols for handling and storage of packages

## **01.110 Tehnička dokumentacija o proizvodu**

**Međunarodna normizacija**  
ISO

ISO 16792:2015  
Technical product documentation – Digital product definition data practices

## **01.120 Normizacija. Opća pravila**

**Europska normizacija**  
CEN/CENELEC

CEN-CENELEC Guide 8:2015  
CEN-CENELEC guidelines for implementation of the common policy on patents (and other statutory intellectual property rights based on inventions)

CENELEC Guide 33:2015  
Guide to the CENELEC Permanent Delegate

**ETSI**

ETSI SR 000314 V 2.18.1:2015  
Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards

**Međunarodna normizacija**  
IEC

IECEx 01:2015  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System)  
– Basic Rules

## **01.140.20 Informacijske znanosti**

**Međunarodna normizacija**  
ISO

ISO 30302:2015  
Information and documentation – Management systems for records – Guidelines for implementation

## **03.060 Financije. Bankarstvo. Monetarni sustavi. Osiguranje**

**Međunarodna normizacija**  
ISO

ISO 18774:2015  
Securities and related financial instruments – Financial Instrument Short Name (FISN)

## **03.080.99 Ostale usluge**

**Europska normizacija**  
CEN

EN 16775:2015  
Expertise activities – General requirements for expertise services

**Međunarodna normizacija**  
ISO/IEC

ISO/IEC TR 20000-10:2015  
Information technology – Service management – Part 10: Concepts and terminology

ISO/IEC 27013:2015

Information technology – Security techniques – Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1

## **03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito**

**Međunarodna normizacija**  
ISO

ISO/IEC 27001 Technical Corrigendum 2:2015  
Information technology – Security techniques – Information security management systems – Requirements; Technical Corrigendum 2

## **03.100.30 Upravljanje ljudskim resursima**

**Međunarodna normizacija**  
ISO/IEC

ISO/IEC 19778-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 1: Collaborative workplace data model

ISO/IEC 19778-2:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 2: Collaborative environment data model

ISO/IEC 19778-3:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 3: Collaborative group data model

ISO/IEC 19780-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative learning communication – Part 1: Text-based communication

ISO/IEC 19788-8:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 8: Data elements for MLR records

ISO/IEC 19788-9:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 9: Data elements for persons

## **03.120.10 Upravljanje kvalitetom i osiguravanje kvalitete**

**Europska normizacija**  
CEN

EN 9103:2014/AC:2015  
Aerospace series – Quality management systems – Variation management of key characteristics

EN ISO 15378:2015  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2015)

**Međunarodna normizacija**  
ISO

ISO 15378:2015  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

## **03.120.20 Certificiranje proizvoda i tvrtki. Ocjenjivanje sukladnosti**

### **Međunarodna normizacija IEC**

IECEE 01:2015  
IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System) – Basic Rules

## **03.120.30 Primjena statističkih metoda**

### **Međunarodna normizacija ISO**

ISO 18404:2015  
Quantitative methods in process improvement – Six Sigma – Competencies for key personnel and their organizations in relation to Six Sigma and Lean implementation

## **03.140 Patenti. Intelektualno vlasništvo**

### **Europska normizacija CEN/CENELEC**

CEN-CENELEC Guide 8:2015  
CEN-CENELEC guidelines for implementation of the common policy on patents (and other statutory intellectual property rights based on inventions)

### **ETSI**

ETSI SR 000314 V 2.18.1:2015  
Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards

## **03.220.01 Prijevoz općenito**

### **Međunarodna normizacija ISO**

ISO 24102-2:2015  
Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 2: Remote management of ITS-SCUs

ISO/TR 17185-2:2015  
Intelligent transport systems – Public transport user information – Part 2: Public transport data and interface standards catalogue and cross references

ISO/TR 17427-2:2015  
Intelligent transport systems – Cooperative ITS – Part 2: Framework overview

ISO/TR 17427-3:2015  
Intelligent transport systems – Cooperative ITS – Part 3: Concept of operations (ConOps) for 'core' systems

ISO/TR 17427-4:2015  
Intelligent transport systems – Cooperative ITS – Part 4: Minimum system requirements and behaviour for core systems

ISO/TR 17427-6:2015  
Intelligent transport systems – Cooperative ITS – Part 6: 'Core system' risk assessment methodology

ISO/TR 17427-7:2015  
Intelligent transport systems – Cooperative ITS – Part 7: Privacy aspects

ISO/TR 17427-8:2015  
Intelligent transport systems – Cooperative ITS – Part 8: Liability aspects

ISO/TR 17427-9:2015  
Intelligent transport systems – Cooperative ITS – Part 9: Compliance and enforcement aspects

ISO/TR 17427-10:2015  
Intelligent transport systems – Cooperative ITS – Part 10: Driver distraction and information display

## **03.220.20 Cestovni prijevoz**

### **Međunarodna normizacija ISO**

ISO/TR 19639:2015  
Electronic fee collection – Investigation of EFC standards for common payment schemes for multi-modal transport services

ISO 15784-2:2015  
Intelligent transport systems (ITS) – Data exchange involving roadside modules communication – Part 2: Centre to field device communications using SNMP

## **03.220.30 Željeznički prijevoz**

### **Europska normizacija CEN**

EN 15528:2015  
Railway applications – Line categories for managing the interface between load limits of vehicles and infrastructure

## **03.240 Poštanske usluge**

### **Europska normizacija CEN**

CEN/TR 16915:2015  
Postal Services – Quality of service – Damage to postal items

## **07.060 Geologija. Meteorologija. Hidrologija**

### **Europska normizacija ETSI**

EN 302054-1 V 1.2.1:2015  
Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 1: Technical characteristics and test methods

EN 302054-2 V 1.2.1:2015  
Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

## **07.100.99 Ostale norme koje se odnose na mikrobiologiju**

### **Međunarodna normizacija ISO**

ISO 10718:2015  
Cork stoppers – Characterization of a low-in-germs stopper, through the enumeration of colony-forming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium

ISO 18416:2015  
Cosmetics – Microbiology – Detection of Candida albicans

ISO 21150:2015  
Cosmetics – Microbiology – Detection of Escherichia coli

ISO 22717:2015  
Cosmetics – Microbiology – Detection of Pseudomonas aeruginosa

ISO 22718:2015  
Cosmetics – Microbiology – Detection of Staphylococcus aureus

## **11.040.10 Anestezijska, respiracijska i reanimacijska oprema**

### **Europska normizacija CEN**

EN ISO 10079-1:2015  
Medical suction equipment – Part 1: Electrically powered suction equipment (ISO 10079-1:2015)

### **Međunarodna normizacija ISO**

ISO 10079-1:2015  
Medical suction equipment – Part 1: Electrically powered suction equipment

ISO 11040-1:2015  
Prefilled syringes – Part 1: Glass cylinders for dental local anaesthetic cartridges

IEC 60601-1-12:2014  
Medical Electrical Equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the emergency medical services environment

### **IEC**

IEC 60601-1-12:2014  
Medical Electrical Equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the emergency medical services environment

## **11.040.20 Transfuzijska, infuzijska i injekcijska oprema**

### **Europska normizacija CEN**

EN ISO 8362-2:2015  
Injection containers and accessories – Part 2: Closures for injection vials (ISO 8362-2:2015)

EN ISO 11663:2015  
Quality of dialysis fluid for haemodialysis and related therapies (ISO 11663:2014)

EN ISO 13958:2015  
Concentrates for haemodialysis and related therapies (ISO 13958:2014)

EN ISO 13959:2015  
Water for haemodialysis and related therapies (ISO 13959:2014)

EN ISO 26722:2015  
Water treatment equipment for haemodialysis applications and related therapies (ISO 26722:2014)

### **Međunarodna normizacija ISO**

ISO 8362-2:2015  
Injection containers and accessories – Part 2: Closures for injection vials

## **11.040.25 Šprice, Igle, Kateteri**

### **Međunarodna normizacija ISO**

ISO 11040-1:2015  
Prefilled syringes – Part 1: Glass cylinders for dental local anaesthetic cartridges

## **11.040.40 Implantati za kirurgiju, protetiku i ortotiku**

### **Europska normizacija CEN**

EN ISO 12417-1:2015  
Cardiovascular implants and extracorporeal systems – Vascular device-drug combination products – Part 1: General requirements (ISO 12417-1:2015)

### **Međunarodna normizacija ISO**

ISO 12417-1:2015  
Cardiovascular implants and extracorporeal systems – Vascular device-drug combination products – Part 1: General requirements

## **11.040.50 Radiografska oprema**

### **Europska normizacija CENELEC**

EN 60601-2-1:2015  
Medical electrical equipment – Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV (IEC 60601-2-1:2009 + A1:2014)

EN 61675-2:2015  
Radionuclide imaging devices – Characteristics and conditions – Part 2: Gamma cameras for planar, wholebody, and SPECT imaging (IEC 61675-2:2015)

## **11.040.55 Dijagnostička oprema**

### **Europska normizacija CENELEC**

EN 60601-2-18:2015  
Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment (IEC 60601-2-18:2009)

EN 60601-2-23:2015  
Medical electrical equipment – Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment (IEC 60601-2-23:2011)

EN 60601-2-49:2015  
Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment (IEC 60601-2-49:2011)

### **Međunarodna normizacija ISO**

ISO 8600-1:2015  
Endoscopes – Medical endoscopes and endotherapy devices – Part 1: General requirements

## **11.040.60 Terapeutska oprema**

### **Europska normizacija CENELEC**

EN 60601-2-5:2015  
Medical electrical equipment – Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment (IEC 60601-2-5:2009)

## **11.040.70 Oftalmoška oprema**

### **Europska normizacija CEN**

EN 16128:2015  
Ophthalmic optics – Reference method for the testing of spectacle frames and sunglasses for nickel release

## **11.040.99 Ostala medicinska oprema**

### **Međunarodna normizacija ISO**

- ISO 18665:2015  
Traditional Chinese medicine – Herbal decoction apparatus
- ISO 18666:2015  
Traditional Chinese medicine – General requirements of moxibustion devices

## **11.060.15 Stomatološki implantati**

### **Međunarodna normizacija ISO**

- ISO 13017 AMD 1:2015  
Dentistry – Magnetic attachments; Amendment 1
- ISO 19429:2015  
Dentistry – Designation system for dental implants

## **11.060.20 Stomatološka oprema**

### **Međunarodna normizacija ISO**

- ISO 11040-1:2015  
Prefilled syringes – Part 1: Glass cylinders for dental local anaesthetic cartridges

## **11.100.99 Ostale norme koje se odnose na laboratorijsku medicinu**

### **Europska normizacija CEN**

- EN ISO 22442-1:2015  
Medical devices utilizing animal tissues and their derivatives – Part 1: Application of risk management (ISO 22442-1:2015)
- EN ISO 22442-2:2015  
Medical devices utilizing animal tissues and their derivatives – Part 2: Controls on sourcing, collection and handling (ISO 22442-2:2015)

### **Međunarodna normizacija ISO**

- ISO 22442-1:2015  
Medical devices utilizing animal tissues and their derivatives – Part 1: Application of risk management
- ISO 22442-2:2015  
Medical devices utilizing animal tissues and their derivatives – Part 2: Controls on sourcing, collection and handling

## **11.120.10 Lijekovi**

### **Europska normizacija CEN**

- EN ISO 15378:2015  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2015)

### **Međunarodna normizacija ISO**

- ISO 15378:2015  
Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

## **11.180.10 Pomagala i prilagodbe za kretanje**

### **Međunarodna normizacija ISO**

- ISO 7176-19 AMD 1:2015  
Wheelchairs – Part 19: Wheeled mobility devices for use as seats in motor vehicles – Amendment 1: Annex G

## **11.180.15 Pomagala za gluhe i osobe oštećenog sluha**

### **Međunarodna normizacija IEC**

- IEC 61669:2015  
Electroacoustics – Measurement of real-ear acoustical performance characteristics of hearing aids

## **11.180.99 Ostale norme koje se odnose na pomagala za osobe s invaliditetom**

### **Međunarodna normizacija ISO/IEC**

- ISO/IEC TR 13066-4:2015  
Information technology – Interoperability with assistive technology (AT) – Part 4: Linux/UNIX graphical environments accessibility API

## **11.200 Kontrola rada. Mehanička kontracepcija sredstva**

### **Europska normizacija CEN**

- EN ISO 4074:2015  
Natural rubber latex male condoms – Requirements and test methods (ISO 4074:2015)

### **Međunarodna normizacija ISO**

- ISO 4074:2015  
Natural rubber latex male condoms – Requirements and test methods

## **13.020.60 Životni ciklusi proizvoda**

### **Europska normizacija CEN**

- EN 16760:2015  
Bio-based products – Life Cycle Assessment

## **13.040.20 Atmosfera okoliša**

### **Europska normizacija CEN**

- EN 14662-3:2015  
Ambient air – Standard method for the measurement of benzene concentrations – Part 3: Automated pumped sampling with in situ gas chromatography

- EN 16738:2015  
Emission safety of combustible air fresheners – Test methods

- EN 16739:2015  
Emission safety of combustible air fresheners – Methodology for the assessment of test results and application of recommended emission limits

- EN 16740:2015  
Emission safety of combustible air fresheners – User safety information

### **13.040.30 Atmosfera u radnome prostoru**

#### **Međunarodna normizacija ISO**

ISO 16258-1:2015

Workplace air – Analysis of respirable crystalline silica by X-ray diffraction – Part 1: Direct-on-filter method

ISO 16258-2:2015

Workplace air – Analysis of respirable crystalline silica by X-ray diffraction – Part 2: Method by indirect analysis

### **13.040.50 Emisije plinova iz prijevoznih sredstava**

#### **Međunarodna normizacija ISO**

ISO 6460-1 AMD 1:2015

Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements; Amendment 1

ISO 6460-3 AMD 1:2015

Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 3: Fuel consumption measurement at a constant speed; Amendment 1

ISO 8178-5:2015

Reciprocating internal combustion engines – Exhaust emission measurement – Part 5: Test fuels

### **13.060.60 Ispitivanje fizikalnih svojstava vode**

#### **Europska normizacija CEN**

EN ISO 13160:2015

Water quality – Strontium 90 and strontium 89 – Test methods using liquid scintillation counting or proportional counting (ISO 13160:2012)

EN ISO 13161:2015

Water quality – Measurement of polonium 210 activity concentration in water by alpha spectrometry (ISO 13161:2011)

### **13.080.20 Fizikalna svojstva tla**

#### **Međunarodna normizacija ISO**

ISO 17892-3:2015

Geotechnical investigation and testing – Laboratory testing of soil – Part 3: Determination of particle density

### **13.110 Sigurnost strojeva**

#### **Europska normizacija CEN**

EN ISO 13850:2015

Safety of machinery – Emergency stop function – Principles for design (ISO 13850:2015)

EN ISO 14120:2015

Safety of machinery – Guards – General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)

EN ISO 14123-1:2015

Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 1: Principles and specifications for machinery manufacturers (ISO 14123-1:2015)

#### **Međunarodna normizacija ISO**

ISO 13850:2015

Safety of machinery – Emergency stop function – Principles for design

ISO 14120:2015

Safety of machinery – Guards – General requirements for the design and construction of fixed and movable guards

ISO 14123-1:2015

Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 1: Principles and specifications for machinery manufacturers

ISO 14123-2:2015

Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 2: Methodology leading to verification procedures

ISO/TR 24119:2015

Safety of machinery – Evaluation of fault masking serial connection of interlocking devices associated with guards with potential free contacts

### **13.160 Utjecaj vibracija i udara na ljudе**

#### **Međunarodna normizacija ISO**

ISO 8727 AMD 1:2015

Mechanical vibration and shock – Human exposure – Biodynamic coordinate systems; Amendment 1

### **13.180 Ergonomija**

#### **Europska normizacija CEN**

CEN ISO/TR 9241-308:2015

Ergonomics of human-system interaction – Part 308: Surface-conduction electron-emitter displays (SED) (ISO/TR 9241-308:2008)

CEN ISO/TR 9241-309:2015

Ergonomics of human-system interaction – Part 309: Organic light-emitting diode (OLED) displays (ISO/TR 9241-309:2008)

CEN ISO/TR 9241-310:2015

Ergonomics of human-system interaction – Part 310: Visibility, aesthetics and ergonomics of pixel defects (ISO/TR 9241-310:2010)

### **13.220.10 Vatrogastvo**

#### **Međunarodna normizacija ISO**

ISO 4642-1:2015

Rubber and plastics hoses, non-collapsible, for fire-fighting service – Part 1: Semi-rigid hoses for fixed systems

ISO 4642-2:2015

Rubber and plastics hoses, non-collapsible, for fire-fighting service – Part 2: Semi-rigid hoses (and hose assemblies) for pumps and vehicles

ISO 15371:2015

Ships and marine technology – Fire-extinguishing systems for protection of galley cooking equipment

### **13.220.20 Zaštita od požara**

#### **Europska normizacija CEN**

EN 45545-2+A1:2015

Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components

EN 45545-5+A1:2015  
Railway applications – Fire protection on railway vehicles  
– Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles

### 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

Europska normizacija  
CEN

EN 14973:2015  
Conveyor belts for use in underground installations – Electrical and flammability safety requirements

CENELEC

EN 60332-1-1:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions  
– Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus (IEC 60332-1-1:2004/A1:2015)

EN 60332-1-2:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions  
– Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2:2004/A1:2015)

EN 60332-1-3:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions  
– Part 1-3: Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles (IEC 60332-1-3:2004/A1:2015)

EN 60695-1-11:2015  
Fire hazard testing – Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment (IEC 60695-1-11:2014)

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

Međunarodna normizacija  
IEC

IEC 61472 Corrigendum 1:2015  
Live working – Minimum approach distances for a.c. systems in the voltage range 72,5 kV to 800 kV – A method of calculation; Corrigendum 1

### 13.280 Zaštita od zračenja

Međunarodna normizacija  
ISO

ISO 15382:2015  
Radiological protection – Procedures for monitoring the dose to the lens of the eye, the skin and the extremities

IEC

IEC/TR 60825-17:2015  
Safety of laser products – Part 17: Safety aspects for use of passive optical components and optical cables in high power optical fibre communication systems

IEC/TR 62971:2015  
Radiation instrumentation – Radiation sources used in illicit trafficking detection standards – Guidance and recommendations

### 13.320 Alarmni sustavi i sustavi uzbunjivanja

Europska normizacija  
CENELEC

EN 60839-11-2:2015/AC:2015  
Alarm and electronic security systems – Part 11-2: Electronic access control systems – Application guidelines (IEC 60839-11-2:2014)

Međunarodna normizacija  
IEC

IEC 62642-2-71:2015  
Alarm systems – Intrusion and hold-up systems – Part 2-71: Intrusion detectors – Glass break detectors (acoustic)

IEC 62642-2-72:2015  
Alarm systems – Intrusion and hold-up systems – Part 2-72: Intrusion detectors – Glass break detectors (passive)

IEC 62642-2-73:2015  
Alarm systems – Intrusion and hold-up systems – Part 2-73: Intrusion detectors – Glass break detectors (active)

### 13.340.10 Zaštitna odjeća

Međunarodna normizacija  
ISO

ISO 11999-5:2015  
PPE for firefighters – Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures – Part 5: Helmets

### 13.340.30 Uredaji za zaštitu dišnih organa

Međunarodna normizacija  
ISO

ISO 16900-6:2015  
Respiratory protective devices – Methods of test and test equipment – Part 6: Mechanical resistance/strength of components and connections

ISO 16900-9:2015  
Respiratory protective devices – Methods of test and test equipment – Part 9: Determination of carbon dioxide content of the inhaled gas

ISO 16900-10:2015  
Respiratory protective devices – Methods of test and test equipment – Part 10: Resistance to ignition, flame, radiant heat and heat

ISO 16900-13:2015  
Respiratory protective devices – Methods of test and test equipment – Part 13: RPD using regenerated breathable gas and special application mining escape RPD: Consolidated test for gas concentration, temperature, humidity, work of breathing, breathing resistance, elastance and duration

ISO 16900-14:2015  
Respiratory protective devices – Methods of test and test equipment – Part 14: Measurement of sound level

### 17.040.30 Mjerni instrumenti

Europska normizacija  
CEN

EN ISO 1938-1:2015  
Geometrical product specifications (GPS) – Dimensional measuring equipment – Part 1: Plain limit gauges of linear size (ISO 1938-1:2015)

EN ISO 16610-60:2015  
Geometrical Product Specification (GPS) – Filtration – Part 60: Linear areal filters: Basic concepts (ISO 16610-60:2015)

Međunarodna normizacija  
ISO

ISO 1938-1:2015  
Geometrical product specifications (GPS) – Dimensional measuring equipment – Part 1: Plain limit gauges of linear size

ISO 16610-30:2015  
Geometrical product specifications (GPS) – Filtration – Part 30: Robust profile filters: Basic concepts

ISO 16610-60:2015  
Geometrical product specification (GPS) – Filtration – Part 60: Linear areal filters – Basic concepts

## **17.120.20 Protok u otvorenim kanalima**

**Međunarodna normizacija  
ISO**

ISO 26906:2015  
Hydrometry – Fishpasses at flow measurement structures

## **17.140.20 Buka koju proizvode strojevi i oprema**

**Međunarodna normizacija  
ISO**

ISO 7216:2015  
Agricultural and forestry tractors – Measurement of noise emitted when in motion

## **17.160 Vibracije, udari i mjerenja vibracija**

**Međunarodna normizacija  
ISO**

ISO 2017-3:2015  
Mechanical vibration and shock – Resilient mounting systems – Part 3: Technical information to be exchanged for application of vibration isolation to new buildings

ISO 13374-4:2015  
Condition monitoring and diagnostics of machine systems – Data processing, communication and presentation – Part 4: Presentation

ISO 16063-43:2015  
Methods for the calibration of vibration and shock transducers – Part 43: Calibration of accelerometers by model-based parameter identification

## **17.200.10 Toplina. Kalorimetrija**

**Europska normizacija  
CEN**

EN 1434-1:2015  
Heat meters – Part 1: General requirements

EN 1434-2:2015  
Heat meters – Part 2: Constructional requirements

EN 1434-3:2015  
Heat meters – Part 3: Data exchange and interfaces

EN 1434-4:2015  
Heat meters – Part 4: Pattern approval tests

EN 1434-5:2015  
Heat meters – Part 5: Initial verification tests

EN 1434-6:2015  
Heat meters – Part 6: Installation, commissioning, operational monitoring and maintenance

## **17.220.20 Mjerenje električnih i magnetskih veličina**

**Europska normizacija  
CENELEC**

EN 61340-5-3:2015  
Electrostatics – Part 5-3: Protection of electronic devices from electrostatic phenomena – Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices (IEC 61340-5-3:2015)

EN 61340-2-1:2015  
Electrostatics – Part 2-1: Measurement methods – Ability of materials and products to dissipate static electric charge (IEC 61340-2-1:2015)

**Međunarodna normizacija  
IEC**

IEC 60270 AMD 1:2015  
High-voltage test techniques – Partial discharge measurements; Amendment 1

IEC 60270 Edition 3.1:2015  
High-voltage test techniques – Partial discharge measurements

## **17.240 Mjerenja zračenja**

**Europska normizacija  
CEN**

EN ISO 13160:2015  
Water quality – Strontium 90 and strontium 89 – Test methods using liquid scintillation counting or proportional counting (ISO 13160:2012)

EN ISO 13161:2015  
Water quality – Measurement of polonium 210 activity concentration in water by alpha spectrometry (ISO 13161:2011)

**CENELEC**

EN 62467-1:2015  
Medical electrical equipment – Dosimetric instruments as used in brachytherapy – Part 1: Instruments based on well-type ionization chambers (IEC 62467-1:2009)

EN 62484:2015  
Radiation protection instrumentation – Spectroscopy-based portal monitors used for the detection and identification of illicit trafficking of radioactive material (IEC 62484:2010)

EN 62534:2015  
Radiation protection instrumentation – Highly sensitive handheld instruments for neutron detection of radioactive material (IEC 62534:2010)

**Međunarodna normizacija  
ISO**

ISO 20785-3:2015  
Dosimetry for exposures to cosmic radiation in civilian aircraft – Part 3: Measurements at aviation altitudes

## **21.100.20 Valjni ležajevi**

**Međunarodna normizacija  
ISO**

ISO 464:2015  
Rolling bearings – Radial bearings with locating snap ring – Dimensions, geometrical product specifications (GPS) and tolerance values

## **21.220.10 Remenski pogon i njegovi sastavni dijelovi**

**Međunarodna normizacija  
ISO**

ISO 19347:2015  
Synchronous belt drives – Imperial pitch trapezoidal profile system – Belts and pulleys

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

**Europska normizacija  
CEN**

EN 15776+A1:2015  
Unfired pressure vessels – Requirements for the design and fabrication of pressure vessels and pressure parts constructed from cast iron with an elongation after fracture equal or less than 15 %

EN ISO 11118:2015  
Gas cylinders – Non-refillable metallic gas cylinders  
– Specification and test methods (ISO 11118:2015)

#### Međunarodna normizacija ISO

ISO 11623:2015  
Gas cylinders – Composite construction – Periodic inspection and testing

ISO 14456:2015  
Gas cylinders – Gas properties and associated classification (FTSC) codes

ISO/TR 17329:2015  
Gas cylinders – Identification of gas cylinder manufacturer marks and their assigned radio frequency identification (RFID) codes

ISO 18665:2015  
Traditional Chinese medicine – Herbal decoction apparatus

### 23.020.40 Kriogeničke posude

#### Međunarodna normizacija ISO

ISO 21009-2:2015  
Cryogenic vessels – Static vacuum insulated vessels – Part 2: Operational requirements

### 23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

#### Europska normizacija CEN

EN ISO 15494:2015  
Plastics piping systems for industrial applications – Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) – Metric series for specifications for components and the system (ISO 15494:2015)

#### Međunarodna normizacija ISO

ISO 15494:2015  
Plastics piping systems for industrial applications – Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) – Metric series for specifications for components and the system

### 23.040.40 Metalne spojnice

#### Europska normizacija CEN

EN 448:2015  
District heating pipes – Preinsulated bonded pipe systems for directly buried hot water networks – Fitting assemblies of steel service pipes, polyurethane thermal insulation and outer casing of polyethylene

### 23.040.70 Crijeva i crijevni sklopovi

#### Europska normizacija CEN

EN ISO 8308:2015  
Rubber and plastics hoses and tubing – Determination of transmission of liquids through hose and tubing walls (ISO 8308:2015)

EN 16436-1+A1:2015  
Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase – Part 1: Hoses and tubings

#### Međunarodna normizacija ISO

ISO 8308:2015  
Rubber and plastics hoses and tubing – Determination of transmission of liquids through hose and tubing walls

ISO 13775-1:2015  
Thermoplastic tubing and hoses for automotive use – Part 1: Non-fuel applications

### 23.060.01 Zaporni uređaji općenito

#### Europska normizacija CEN

EN 488:2015  
District heating pipes – Preinsulated bonded pipe systems for directly buried hot water networks – Steel valve assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene

#### Međunarodna normizacija ISO

ISO 28921-2:2015  
Industrial valves – Isolating valves for low-temperature applications – Part 2: Type testing

### 23.060.20 Slavine

#### Međunarodna normizacija ISO

ISO 17292:2015  
Metal ball valves for petroleum, petrochemical and allied industries

### 23.060.40 Regulatori tlaka

#### Europska normizacija CEN

EN 16678:2015  
Safety and control devices for gas burners and gas burning appliances – Automatic shut-off valves for operating pressure of above 500 kPa up to and including 6300 kPa

### 23.100.10 Pumpe i motori

#### Međunarodna normizacija ISO

ISO 10767-1:2015  
Hydraulic fluid power – Determination of pressure ripple levels generated in systems and components – Part 1: Method for determining source flow ripple and source impedance of pumps

### 23.100.40 Cjevovodi i spojnice

#### Međunarodna normizacija ISO

ISO 4079:2015  
Rubber hoses and hose assemblies – Textile-reinforced hydraulic types for oil-based or water-based fluids – Specification

### 23.120 Ventilatori. Klimatizacijski uređaji

#### Europska normizacija CEN

EN ISO 13350:2015  
Fans – Performance testing of jet fans (ISO 13350:2015)

## Međunarodna normizacija ISO

ISO 13350:2015  
Fans – Performance testing of jet fans

## 25.020 Proizvodni procesi

### Međunarodna normizacija ISO

ISO 13381-1:2015  
Condition monitoring and diagnostics of machines – Prognostics – Part 1: General guidelines

## 25.040.40 Mjerenje i upravljanje u industrijskim procesima

### Međunarodna normizacija ISO

ISO 8000-8:2015  
Data quality – Part 8: Information and data quality: Concepts and measuring

## 25.080.50 Strojevi za brušenje i poliranje

### Međunarodna normizacija ISO

ISO 16089:2015  
Machine tools – Safety – Stationary grinding machines

## 25.100.01 Alati za rezanje općenito

### Međunarodna normizacija ISO

ISO 5611-1:2015  
Cartridges, type A, for indexable inserts – Part 1: General survey, correlation and determination of dimensions

ISO 5611-2:2015  
Cartridges, type A, for indexable inserts – Part 2: Style F

ISO 5611-3:2015  
Cartridges, type A, for indexable inserts – Part 3: Style G

ISO 5611-4:2015  
Cartridges, type A, for indexable inserts – Part 4: Style J

ISO 5611-5:2015  
Cartridges, type A, for indexable inserts – Part 5: Style K

ISO 5611-6:2015  
Cartridges, type A, for indexable inserts – Part 6: Style L

ISO 5611-7:2015  
Cartridges, type A, for indexable inserts – Part 7: Style R

ISO 5611-8:2015  
Cartridges, type A, for indexable inserts – Part 8: Style S

ISO 5611-9:2015  
Cartridges, type A, for indexable inserts – Part 9: Style T

ISO 5611-10:2015  
Cartridges, type A, for indexable inserts – Part 10: Style U

ISO 5611-11:2015  
Cartridges, type A, for indexable inserts – Part 11: Style W

ISO 5611-12:2015  
Cartridges, type A, for indexable inserts – Part 12: Style Y

## 25.140.20 Električni alati

### Europska normizacija CENELEC

EN 60745-2-3:2011/A13:2015  
Hand-held motor-operated electric tools – Safety – Part 2-3: Particular requirements for grinders, polishers and disk-type sanders

EN 62841-1:2015/AC:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements

EN 62841-2-14:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-14: Particular requirements for hand-held planers (IEC 62841-2-14:2015, modified)

### Međunarodna normizacija IEC

IEC 62841-1:2014/COR2:2015  
Electric motor-operated hand-held, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements; Corrigendum 2

IEC 62841-2-2:2014/COR1:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches; Corrigendum 1

IEC 62841-2-4:2014/COR1:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-4: Particular requirements for hand-held Sanders and polishers other than disc type; Corrigendum 1

IEC 62841-2-9:2015/COR1:2015  
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; Corrigendum 1

IEC 62841-2-11:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 2-11: Particular requirements for hand-held reciprocating saws

IEC 62841-3-1 Corrigendum 1:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws; Corrigendum 1

IEC 62841-3-6:2014/COR1:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-6: Particular requirements for transportable diamond drills with liquid system; Corrigendum 1

IEC 62841-3-9:2014/COR1:2015  
Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 1

## 25.160.20 Dodatni i potrošni materijali za zavarivanje

### Međunarodna normizacija ISO

ISO 636:2015  
Welding consumables – Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels – Classification

ISO 1071:2015  
Welding consumables – Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron – Classification

- ISO 17632:2015  
Welding consumables – Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of non-alloy and fine grain steels – Classification
- ISO 18273:2015  
Welding consumables – Wire electrodes, wires and rods for welding of aluminium and aluminium alloys – Classification

## 25.160.40 Zavareni spojevi i zavari

### Europska normizacija CEN

- EN ISO 9018:2015  
Destructive tests on welds in metallic materials – Tensile test on cruciform and lapped joints (ISO 9018:2015)
- EN ISO 17641-2:2015  
Destructive tests on welds in metallic materials – Hot cracking tests for weldments – Arc welding processes – Part 2: Self-restraint tests (ISO 17641-2:2015)

### Međunarodna normizacija ISO

- ISO 9018:2015  
Destructive tests on welds in metallic materials – Tensile test on cruciform and lapped joints
- ISO 17641-2:2015  
Destructive tests on welds in metallic materials – Hot cracking tests for weldments – Arc welding processes – Part 2: Self-restraint tests

## 25.220.50 Emajli

### Europska normizacija CEN

- EN ISO 2746:2015  
Vitreous and porcelain enamels – High voltage test (ISO 2746:2015)
- EN ISO 28721-4:2015  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 4: Quality requirements for glass-lined flanged steel pipes and flanged steel fittings (ISO 28721-4:2015)
- EN ISO 28764:2015  
Vitreous and porcelain enamels – Production of specimens for testing enamels on sheet steel, sheet aluminium and cast iron (ISO 28764:2015)

### Međunarodna normizacija ISO

- ISO 2746:2015  
Vitreous and porcelain enamels – High voltage test
- ISO 28721-4:2015  
Vitreous and porcelain enamels – Glass-lined apparatus for process plants – Part 4: Quality requirements for glass-lined flanged steel pipes and flanged steel fittings
- ISO 28764:2015  
Vitreous and porcelain enamels – Production of specimens for testing enamels on sheet steel, sheet aluminium and cast iron

## 27.010 Tehnika prijenosa energije i topline općenito

### Europska normizacija CEN

- EN 16325+A1:2015  
Guarantees of Origin related to energy – Guarantees of Origin for Electricity

### CENELEC

- EN 50597:2015  
Energy Consumption of Vending Machines

## 27.020 Motori s unutrašnjim izgaranjem

### Međunarodna normizacija ISO

- ISO 8178-5:2015  
Reciprocating internal combustion engines – Exhaust emission measurement – Part 5: Test fuels

## 27.040 Plinske i parne turbine. Parni strojevi

### Europska normizacija CEN

- EN 12952-1:2015  
Water-tube boilers and auxiliary installations – Part 1: General

## 27.060.20 Plinski plamenici

### Europska normizacija CEN

- EN 125+A1:2015  
Flame supervision devices for gas burning appliances – Thermoelectric flame supervision devices

### Međunarodna normizacija ISO

- ISO 23550 AMD 1:2015  
Safety and control devices for gas burners and gas-burning appliances – General requirements; Amendment 1

## 27.060.30 Kotlovi i izmjenjivači topline

### Međunarodna normizacija ISO

- ISO 18665:2015  
Traditional Chinese medicine – Herbal decoction apparatus

## 27.070 Gorivi članci

### Međunarodna normizacija IEC

- IEC 62282-3-200:2015  
Fuel cell technologies – Part 3-200: Stationary fuel cell power systems – Performance test methods

## 27.080 Dizalice topline

### Europska normizacija CEN

- EN 12309-2:2015/AC:2015  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW – Part 2: Safety

### Međunarodna normizacija ISO

- ISO 5149-1 AMD 1:2015  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Definitions, classification and selection criteria – Amendment 1: Correction of QLAV, QLMV

## **27.140 Hidroenergetika**

### **Međunarodna normizacija IEC**

IEC 61850-7-410 AMD 1:2015

Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control; Amendment 1

IEC 61850-7-410 Edition 2.1:2015

Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control

## **27.160 Solarna energetika**

### **Međunarodna normizacija IEC**

IEC 61829:2015

Photovoltaic (PV) array – On-site measurement of current-voltage characteristics

## **27.180 Sustavi vjetroagregata**

### **Europska normizacija CENELEC**

EN 61400-25-2:2015

Wind turbines – Part 25-2: Communications for monitoring and control of wind power plants – Information models (IEC 61400-25-2:2015)

EN 61400-25-3:2015

Wind turbines – Part 25-3: Communications for monitoring and control of wind power plants – Information exchange models (IEC 61400-25-3:2015)

EN 61400-27-1:2015

Wind turbines – Part 27-1: Electrical simulation models – Wind turbines (IEC 61400-27-1:2015)

## **27.190 Biološki izvori i alternativni izvori energije**

### **Europska normizacija CEN**

EN ISO 17829:2015

Solid biofuels – Determination of length and diameter of pellets (ISO 17829:2015)

### **CENELEC**

EN 61427-2:2015

Secondary cells and batteries for renewable energy storage – General requirements and methods of test – Part 2: On-grid applications (IEC 61427-2:2015)

### **Međunarodna normizacija ISO**

ISO 17829:2015

Solid Biofuels – Determination of length and diameter of pellets

ISO 18122:2015

Solid biofuels – Determination of ash content

ISO 18123:2015

Solid biofuels – Determination of the content of volatile matter

## **27.200 Rashladna tehnologija (tehnika)**

### **Međunarodna normizacija ISO**

ISO 5149-1 AMD 1:2015

Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Definitions, classification and selection criteria – Amendment 1: Correction of QLAV, QLMV

## **29.020 Elektrotehnika općenito**

### **Europska normizacija CENELEC**

EN 60695-1-11:2015

Fire hazard testing – Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment (IEC 60695-1-11:2014)

### **Međunarodna normizacija IEC**

IECEE 01:2015

IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System) – Basic Rules

## **29.035.01 Izolacijski materijali općenito**

### **Međunarodna normizacija IEC**

IEC 61251:2015

Electrical insulating materials and systems – AC voltage endurance evaluation

## **29.035.20 Plastični i gumeni izolacijski materijali**

### **Europska normizacija CENELEC**

EN 60455-2:2015

Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:2015)

## **29.040.01 Izolacijski fluidi općenito**

### **Međunarodna normizacija IEC**

IEC 61251:2015

Electrical insulating materials and systems – AC voltage endurance evaluation

## **29.050 Supravodljivost i vodljivi materijali**

### **Međunarodna normizacija IEC**

IEC 60050-815:2015

International Electrotechnical Vocabulary – Part 815: Superconductivity

## **29.060.10 Žice**

### **Međunarodna normizacija IEC**

IEC 60317-0-4:2015

Specifications for particular types of winding wires – Part 0-4: General requirements – Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire

IEC 60317-31:2015

Specifications for particular types of winding wires – Part 31: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180

- IEC 60317-32:2015  
Specifications for particular types of winding wires – Part 32: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155
- IEC 60317-33:2015  
Specifications for particular types of winding wires – Part 33: Glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200
- IEC 60317-59:2015  
Specifications for particular types of winding wires – Part 59: Polyamide-imide enamelled round copper wire, class 240

## 29.060.20 Kabeli

### Europska normizacija CENELEC

- EN 60332-1-1:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus (IEC 60332-1-1:2004/A1:2015)
- EN 60332-1-2:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2:2004/A1:2015)
- EN 60332-1-3:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-3: Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles (IEC 60332-1-3:2004/A1:2015)

## 29.080.10 Izolatori

### Međunarodna normizacija IEC

- IEC 62231-1:2015  
Composite station post insulators for substations with AC voltages greater than 1000 V up to 245 kV – Part 1: Dimensional, mechanical and electrical characteristics

## 29.080.20 Provodni izolatori

### Europska normizacija CENELEC

- EN 50180-1:2015  
Bushings above 1 kV up to 52 kV and from 250 A to 3,15 kA for liquid filled transformers – Part 1: General requirements for bushings
- EN 50180-2:2015  
Bushings above 1 kV up to 52 kV and from 250 A to 3,15 kA for liquid filled transformers – Part 2: Requirement for bushing components
- EN 50180-3:2015  
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

## 29.100.10 Magnetski sastavni dijelovi

### Međunarodna normizacija IEC

- IEC 60424-3:2015  
Ferrite cores – Guidelines on the limits of surface irregularities – Part 3: ETD-cores, EER-cores, EC-cores and E-cores
- IEC 62317-11:2015  
Ferrite cores – Dimensions – Part 11: EC-cores for use in power supply applications

## 29.120.10 Zaštitne cijevi za električne potrebe

### Međunarodna normizacija IEC

- IEC 61914:2015  
Cable cleats for electrical installations
- IEC 62549:2011/ISH1:2015  
Articulated systems and flexible systems for cable guiding; Interpretation Sheet 1

## 29.120.30 Utikači, utičnice, sprežnici

### Međunarodna normizacija IEC

- IEC/TR 60083:2015  
Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC

## 29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

### Međunarodna normizacija ISO

- ISO/IEC 30129:2015  
Information technology – Telecommunications bonding networks for buildings and other structures

### IEC

- IEC 60691:2015  
Thermal-links – Requirements and application guide

- IEC 60898-1 Corrigendum 1:2015  
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation; Corrigendum 1

- ISO/IEC 30129:2015  
Information technology – Telecommunications bonding networks for buildings and other structures

## 29.120.99 Ostali električni pribor

### Međunarodna normizacija IEC

- IEC 61242 AMD 2:2015  
Electrical accessories – Cable reels for household and similar purposes; Amendment 1

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

- IEC/IEEE 62271-37-013:2015  
High-voltage switchgear and controlgear – Part 37-013: Alternating-current generator circuit-breakers

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Europska normizacija CENELEC

- EN 60947-3:2009/A2:2015  
Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2008/A2:2015)

- HD 60364-5-53:2015  
Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear

## **29.140.01 Svjetiljke općenito**

### **Europska normizacija CENELEC**

EN 62471-5:2015

Photobiological safety of lamps and lamp systems – Part 5: Image projectors (IEC 62471-5:2015)

## **29.140.10 Kape i držači svjetiljki**

### **Europska normizacija CENELEC**

EN 60061-2:1993/A49:2015

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders (IEC 60061-2:1969/A49:2015)

EN 60061-3:1993/A50:2015

Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges (IEC 60061-3:1969/A50:2015)

## **29.140.40 Rasvjetna tijela**

### **Europska normizacija CENELEC**

EN 60598-2-5:2015

Luminaires – Part 2-5: Particular requirements – Floodlights (IEC 60598-2-5:2015)

### **Međunarodna normizacija IEC**

IEC 60598-1 Corrigendum 1:2015

Luminaires – Part 1: General requirements and tests; Corrigendum 1

## **29.140.99 Ostale norme koje se odnose na svjetiljke**

### **Europska normizacija CENELEC**

EN 62868:2015

Lightning density based on lightning location systems (LLS) – General principles (IEC 62858:2015)

### **Međunarodna normizacija IEC**

IEC 60929 AMD 1:2015

AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements; Amendment 1

IEC 60929 Edition 4.1:2015

AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements

IEC 62612 AMD 1:2015

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements; Amendment 1

IEC 62612 Edition 1.1:2015

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements

IEC 62838:2015

LEDsi lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. – Safety specifications

## **29.160.30 Motori**

### **Europska normizacija CENELEC**

EN 61800-2:2015

Adjustable speed electrical power drive systems – Part 2: General requirements – Rating specifications for low voltage adjustable speed a.c. power drive systems (IEC 61800-2:2015)

### **Međunarodna normizacija IEC**

IEC 61800-7-1:2015

Adjustable speed electrical power drive systems – Part 7-1: Generic interface and use of profiles for power drive systems – Interface definition

IEC 61800-7-201:2015

Adjustable speed electrical power drive systems – Part 7-201: Generic interface and use of profiles for power drive systems – Profile type 1 specification

IEC 61800-7-202:2015

Adjustable speed electrical power drive systems – Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification

IEC 61800-7-203:2015

Adjustable speed electrical power drive systems – Part 7-203: Generic interface and use of profiles for power drive systems – Profile type 3 specification

IEC 61800-7-204:2015

Adjustable speed electrical power drive systems – Part 7-204: Generic interface and use of profiles for power drive systems – Profile type 4 specification

IEC 61800-7-301:2015

Adjustable speed electrical power drive systems – Part 7-301: Generic interface and use of profiles for power drive systems – Mapping of profile type 1 to network technologies

IEC 61800-7-302:2015

Adjustable speed electrical power drive systems – Part 7-302: Generic interface and use of profiles for power drive systems – Mapping of profile type 2 to network technologies

IEC 61800-7-303:2015

Adjustable speed electrical power drive systems – Part 7-303: Generic interface and use of profiles for power drive systems – Mapping of profile type 3 to network technologies

IEC 61800-7-304:2015

Adjustable speed electrical power drive systems – Part 7-304: Generic interface and use of profiles for power drive systems – Mapping of profile type 4 to network technologies

## **29.200 Ispravljači. Pretvarači. Stabilizirano napajanje**

### **Europska normizacija CENELEC**

EN 60633:1999/A2:2015

Terminology for high-voltage direct current (HVDC) transmission (IEC 60633:1998/A2:2015)

### **Međunarodna normizacija IEC**

IEC 61800-7-1:2015

Adjustable speed electrical power drive systems – Part 7-1: Generic interface and use of profiles for power drive systems – Interface definition

IEC 61800-7-201:2015

Adjustable speed electrical power drive systems – Part 7-201: Generic interface and use of profiles for power drive systems – Profile type 1 specification

IEC 61800-7-202:2015

Adjustable speed electrical power drive systems – Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification

- IEC 61800-7-203:2015  
Adjustable speed electrical power drive systems – Part 7-203: Generic interface and use of profiles for power drive systems – Profile type 3 specification
- IEC 61800-7-204:2015  
Adjustable speed electrical power drive systems – Part 7-204: Generic interface and use of profiles for power drive systems – Profile type 4 specification
- IEC 61800-7-301:2015  
Adjustable speed electrical power drive systems – Part 7-301: Generic interface and use of profiles for power drive systems – Mapping of profile type 1 to network technologies
- IEC 61800-7-302:2015  
Adjustable speed electrical power drive systems – Part 7-302: Generic interface and use of profiles for power drive systems – Mapping of profile type 2 to network technologies
- IEC 61800-7-303:2015  
Adjustable speed electrical power drive systems – Part 7-303: Generic interface and use of profiles for power drive systems – Mapping of profile type 3 to network technologies
- IEC 61800-7-304:2015  
Adjustable speed electrical power drive systems – Part 7-304: Generic interface and use of profiles for power drive systems – Mapping of profile type 4 to network technologies

## 29.220.10 Primarni članci i baterije

### Europska normizacija CENELEC

- EN 60086-1:2015  
Primary batteries – Part 1: General (IEC 60086-1:2015)

### Međunarodna normizacija IEC

- IEC 60086-2:2015  
Primary batteries – Part 2: Physical and electrical specifications

## 29.220.20 Kiseli sekundarni članci i baterije

### Europska normizacija CENELEC

- EN 50342-1:2015  
Lead-acid starter batteries – Part 1: General requirements and methods of test
- EN 50342-6:2015  
Lead-acid starter batteries – Part 6: Batteries for Micro-Cycle Applications
- EN 61427-2:2015  
Secondary cells and batteries for renewable energy storage – General requirements and methods of test – Part 2: On-grid applications (IEC 61427-2:2015)

### Međunarodna normizacija IEC

- IEC 61982-4:2015  
Secondary batteries (except lithium) for the propulsion of electric road vehicles – Part 4: Safety requirements of nickel-metal hydride cells and modules

## 29.240.01 Mreže za prijenos i razdiobu električne energije općenito

### Međunarodna normizacija IEC

- IEC/TR 61968-900:2015  
Application integration at electric utilities – System interfaces for distribution management – Part 900: Guidance for implementation of IEC 61968-9

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

### Međunarodna normizacija IEC

- IECEx 01:2015  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System) – Basic Rules
- IECEx 02 Edition 5.2:2015  
IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System) – Rules of Procedure
- IEC 60079-10-1 Corrigendum 1:2015  
Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres; Corrigendum 1

## 31.020 Elektronički sastavni dijelovi općenito

### Europska normizacija CENELEC

- EN 61340-5-3:2015  
Electrostatics – Part 5-3: Protection of electronic devices from electrostatic phenomena – Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices (IEC 61340-5-3:2015)

### Međunarodna normizacija IEC

- IEC 62368-1 Corrigendum 2:2015  
Audio/video, information and communication technology equipment – Part 1: Safety requirements; Corrigendum 2

## 31.060.30 Papirni i plastični kondenzatori

### Europska normizacija CENELEC

- EN 60384-20:2015  
Fixed capacitors for use in electronic equipment – Part 20: Sectional specification – Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors (IEC 60384-20:2015)

## 31.060.40 Tantalovi elektrolitski kondenzatori

### Europska normizacija CENELEC

- EN 60384-24:2015  
Fixed capacitors for use in electronic equipment – Part 24: Sectional specification – Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte (IEC 60384-24:2015)

## 31.060.50 Aluminijski elektrolitski kondenzatori

### Europska normizacija CENELEC

- EN 60384-25:2015  
Fixed capacitors for use in electronic equipment – Part 25: Sectional specification – Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte (IEC 60384-25:2015)

## 31.060.70 Energetski kondenzatori

### Europska normizacija CENELEC

- EN 60143-1:2015  
Series capacitors for power systems – Part 1: General (IEC 60143-1:2015)

## **31.060.99 Ostali kondenzatori**

**Međunarodna normizacija**  
IEC

IEC 62391-1:2015  
Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification

## **31.080.20 Tiristori**

**Europska normizacija**  
CENELEC

EN 60700-1:2015  
Thyristor valves for high voltage direct current (HVDC) power transmission – Part 1: Electrical testing (IEC 60700-1:2015)

## **31.140 Piezoelektrične naprave**

**Međunarodna normizacija**  
IEC

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

## **31.160 Električni filtri**

**Europska normizacija**  
CENELEC

EN 60862-1:2015  
Surface acoustic wave (SAW) filters of assessed quality – Part 1: Generic specification (IEC 60862-1:2015)

EN 60939-3:2015  
Passive filter units for electromagnetic interference suppression – Part 3: Passive filter units for which safety tests are appropriate (IEC 60939-3:2015)

**Međunarodna normizacija**  
IEC

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

## **31.200 Integrirani krugovi. Mikroelektronika**

**Međunarodna normizacija**  
IEC

IEC 62132-1:2015  
Integrated circuits – Measurement of electromagnetic immunity – Part 1: General conditions and definitions

## **31.220.10 Utikačke i utičničke naprave. Konektori**

**Međunarodna normizacija**  
IEC

IEC 61076-4-116 AMD 1:2015  
Connectors for electronic equipment – Product requirements – Part 4-116: Printed board connectors – Detail specification for a high-speed two-part connector with integrated shielding function; Amendment 1

IEC 61076-4-116 Edition 1.1:2015  
Connectors for electronic equipment – Product requirements – Part 4-116: Printed board connectors – Detail specification for a high-speed two-part connector with integrated shielding function

## **31.240 Mehaničke konstrukcije za električnu opremu**

**Međunarodna normizacija**  
IEC

IEC 60297-3-109:2015  
Mechanical structures for electrical and electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-109: Dimensions of chassis for embedded computing devices

## **31.260 Optoelektronika. Laserska oprema**

**Europska normizacija**  
CENELEC

EN 62868:2015  
Lightning density based on lightning location systems (LLS) – General principles (IEC 62858:2015)

**Međunarodna normizacija**  
ISO

ISO 13694:2015  
Optics and photonics – Lasers and laser-related equipment – Test methods for laser beam power (energy) density distribution

**IEC**

IEC/TR 60825-17:2015  
Safety of laser products – Part 17: Safety aspects for use of passive optical components and optical cables in high power optical fibre communication systems

## **33.020 Telekomunikacije općenito**

**Europska normizacija**  
ETSI

ETSI SR 000314 V 2.18.1:2015  
Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards

ETSI ES 202782 V 1.3.1:2015  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: TTCN-3 Performance and Real Time Testing

## **33.040.01 Telekomunikacijski sustavi općenito**

**Europska normizacija**  
ETSI

ETSI TS 101563 V 1.4.1:2015  
Speech and multimedia Transmission Quality (STQ) – IMS/PES/VoLTE exchange performance requirements

ETSI TR 102489 V 1.4.1:2015  
Environmental Engineering (EE) – European telecommunications standard for equipment practice – Thermal management guidance for equipment and its deployment

ETSI TR 102581 V 1.2.1:2015  
Speech Processing, Transmission and Quality Aspects (STQ) – A Study on the Minimum Additional Required Attenuation on the Antenna Path of the Field Test Equipment

ETSI TS 102929 V 2.2.1:2015  
Speech and multimedia Transmission Quality (STQ) – Procedures for the identification and selection of common modes of de-jitter buffers and echo cancellers

ETSI TS 103222-1 V 1.1.1:2015  
Speech and multimedia Transmission Quality (STQ) – Reference benchmarking, background traffic profiles and KPIs – Part 1: Reference benchmarking, background traffic profiles and KPIs for VoIP and FoIP in fixed networks

ETSI TR 119000 V 1.1.1:2015  
Electronic Signatures and Infrastructures (ESI) – The framework for standardization of signatures: overview

ETSI EG 202396-3 V 1.5.1:2015  
Speech and multimedia Transmission Quality (STQ) – Speech Quality performance in the presence of background noise – Part 3: Background noise transmission – Objective test methods

ETSI ES 202975 V 2.1.1:2015  
Human Factors (HF) – Requirements for relay services

ETSI GS OEU 012 V 1.1.1:2015  
Operational energy Efficiency for Users (OEU) – Technical Global KPIs for Fixed Access Networks

ETSI GS OEU 017 V 1.1.1:2015  
Operational energy Efficiency for Users (OEU) – Referential specification to define sustainable levels of Fixed Broadband access networks

### 33.040.35 Telefonske mreže

#### Europska normizacija ETSI

ETSI TS 101671 V 3.13.1:2015  
Lawful Interception (LI) – Handover interface for the lawful interception of telecommunications traffic

ETSI TS 102232-1 V 3.10.1:2015  
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery

ETSI TS 102232-5 V 3.5.1:2015  
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 5: Service-specific details for IP Multimedia Services

ETSI TR 102503 V 1.9.1:2015  
Lawful Interception (LI) – ASN.1 Object Identifiers in Lawful Interception and Retained data handling Specifications

### 33.040.40 Mreže za prijenos podataka

#### Europska normizacija ETSI

ETSI TS 181019 V 3.0.0:2015  
Network Technologies (NTECH) – Business Communication Requirements

ETSI TS 182023 V 3.0.0:2015  
Network Technologies (NTECH) – Core and enterprise NGN interaction scenarios – Architecture and functional description

ETSI TS 182024 V 3.0.0:2015  
Network Technologies (NTECH) – Hosted Enterprise Services – Architecture, functional description and signalling

ETSI TS 182025 V 3.4.0:2015  
Network Technologies (NTECH) – Business trunking – Architecture and functional description

#### Međunarodna normizacija IEC

IEC 61850-7-410 AMD 1:2015  
Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control; Amendment 1

IEC 61850-7-410 Edition 2.1:2015  
Communication networks and systems for power utility automation – Part 7-410: Basic communication structure – Hydroelectric power plants – Communication for monitoring and control

IEC/TR 61850-80-3:2015  
Communication networks and systems for power utility automation – Part 80-3: Mapping to web protocols – Requirements and technical choices

### 33.040.99 Ostala oprema za komunikacijske sustave

#### Europska normizacija ETSI

ETSI TR 103306 V 1.1.1:2015  
CYBER – Global Cyber Security Ecosystem

ETSI TS 103374-1 V 1.1.2:2015  
Core Network and Interoperability Testing (INT) – Diameter Conformance testing for Rf/Ro interface – (3GPPTM Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186001-1 V 3.1.1:2015  
Core Network and Interoperability Testing (INT) – Network Integration Testing between SIP and ISDN/PSTN network signalling protocols – Part 1: Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN

ETSI TS 186001-5 V 2.3.0:2015  
Core Network and Interoperability Testing (INT) – Network Integration Testing between SIP and ISDN/PSTN network signalling protocols – Part 5: Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Tests between ISDN-ISDN and ISDN-PSTN over SIP II NNI / SIP-I NNI

ETSI TS 186006-1 V 2.1.1:2015  
Core Network and Interoperability Testing (INT) – Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPP Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186006-2 V 4.1.1:2015  
Core Network and Interoperability Testing (INT) – Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPP Release 10) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186007-1 V 2.1.1:2015  
Core Network and Interoperability Testing (INT) – Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186007-2 V 4.1.1:2015  
Core Network and Interoperability Testing (INT) – Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 10) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186010-1 V 3.1.1:2015  
Core Network and Interoperability Testing (INT) – Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPP Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186010-2 V 3.2.1:2015  
Core Network and Interoperability Testing (INT) – Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPP Release 10) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186022-1 V 3.1.1:2015  
Core Network and Interoperability Testing (INT) – Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 10) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186022-2 V 4.1.1:2015  
Core Network and Interoperability Testing (INT) – Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 10) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI GS ISI 002 V 1.2.1:2015  
Information Security Indicators (ISI) – Event Model A security event classification model and taxonomy

ETSI GS ISI 005 V 1.1.1:2015  
Information Security Indicators (ISI) – Guidelines for security event detection testing and assessment of detection effectiveness

### 33.060.01 Radiokomunikacije općenito

**Europska normizacija**  
**ETSI**

EN 302054-1 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 1: Technical characteristics and test methods

EN 302054-2 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 303143 V 1.2.1:2015

Reconfigurable Radio Systems (RRS) – System architecture for information exchange between different Geo-location Databases (GLDBs) enabling the operation of White Space Devices (WSDs)

EN 303144 V 1.1.1:2015

Reconfigurable Radio Systems (RRS) – Enabling the operation of Cognitive Radio System (CRS) dependent for their use of radio spectrum on information obtained from Geo-location Databases (GLDBs) – Parameters and procedures for information exchange between different GLDBs

EN 303145 V 1.2.1:2015

Reconfigurable Radio Systems (RRS) – System Architecture and High Level Procedures for Coordinated and Uncoordinated Use of TV White Spaces

EN 303146-1 V 1.2.1:2015

Reconfigurable Radio Systems (RRS) – Mobile Device Information Models and Protocols – Part 1: Multiradio Interface (MURI)

EN 303387 V 1.1.1:2015

Reconfigurable Radio Systems (RRS) – Signalling Protocols and information exchange for Coordinated use of TV White Spaces – Interface between Cognitive Radio System (CRS) and Spectrum Coordinator (SC)

ETSI TS 103235 V 1.1.1:2015

Reconfigurable Radio Systems (RRS) – System architecture and high level procedures for operation of Licensed Shared Access (LSA) in the 2300 MHz – 2400 MHz band

### 33.060.20 Prijamna i odašiljačka oprema

**Europska normizacija**  
**ETSI**

EN 303203 V 2.1.1:2015

Short Range Devices (SRD) – Medical Body Area Network Systems (MBANSS) operating in the 2483,5 MHz to 2500 MHz range – 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**  
**ETSI**

ETSI TR 102311 V 1.2.1:2015

Fixed Radio Systems – Point-to-point equipment – Specific aspects of the spatial frequency reuse method

ETSI TR 103820 V 1.1.1:2015

Fixed Radio Systems – Energy efficiency metrics and test procedures for Point-to-point fixed radio systems

### 33.060.40 Kabelski distribucijski sustavi

**Europska normizacija**  
**CENELEC**

EN 50083-2:2012/A1:2015

Cable networks for television signals, sound signals and interactive services – Part 2: Electromagnetic compatibility for equipment

CLC/TR 50607-10:2015

Satellite signal distribution over a single coaxial cable – Part 10: Implementation guideline

**ETSI**

ETSI TS 105175-1-1 V 1.1.1:2015

Access, Terminals, Transmission and Multiplexing (ATTM) – Plastic Optical Fibres – Part 1: Plastic Optical Fibre System Specifications for 100 Mbit/s and 1 Gbit/s – Sub-part 1: Application requirements for physical layer specifications for high-speed operations over Plastic Optical Fibres

### 33.060.99 Ostala oprema za radiokomunikacije

**Europska normizacija**  
**ETSI**

ETSI TR 102967 V 1.2.1:2015

Reconfigurable Radio Systems (RRS) – Use cases for dynamic equipment reconfiguration

### 33.070.30 Digitalne poboljšane bežične telekomunikacije (DECT)

**Europska normizacija**  
**ETSI**

EN 300176-1 V 2.2.1:2015

Digital Enhanced Cordless Telecommunications (DECT) – Test specification – Part 1: Radio

EN 301908-10 V 4.2.1:2015

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks – Part 10: Harmonised Standard for IMT-2000, FDMA/TDMA (DECT) covering the essential requirements of article 3.2 of the Directive 2014/53/EU

ETSI TS 102527-4 V 1.3.1:2015

Digital Enhanced Cordless Telecommunications (DECT) – New Generation DECT – Part 4: Light Data Services – Software Update Over The Air (SUOTA), content downloading and HTTP based applications

### 33.070.40 Sateliti

**Europska normizacija**  
**ETSI**

ETSI TS 101376-4-8 V 3.4.1:2015

GEO-Mobile Radio Interface Specifications (Release 3) – Third Generation Satellite Packet Radio Service – Part 4: Radio interface protocol specifications – Sub-part 8: Mobile Radio Interface Layer 3 Specifications – GMR-1 3G 44.008

ETSI TS 101376-4-12 V 3.4.1:2015

GEO-Mobile Radio Interface Specifications (Release 3) – Third Generation Satellite Packet Radio Service – Part 4: Radio interface protocol specifications – Sub-part 12: Mobile Earth Station (MES) – Base Station System (BSS) interface – Radio Link Control/Medium Access Control (RLC/MAC) protocol – GMR-1 3G 44.060

ETSI TS 101376-4-13 V 3.4.1:2015

GEO-Mobile Radio Interface Specifications (Release 3) – Third Generation Satellite Packet Radio Service – Part 4: Radio interface protocol specifications – Sub-part 13: Radio Resource Control (RRC) protocol – lu Mode – GMR-1 3G 44.118

- ETSI TS 101376-4-14 V 3.4.1:2015  
 GEO-Mobile Radio Interface Specifications (Release 3)  
 – Third Generation Satellite Packet Radio Service – Part 4:  
 Radio interface protocol specifications – Sub-part 14: Mobile  
 Earth Station (MES) – Base Station System (BSS) interface  
 – Radio Link Control/Medium Access Control (RLC/MAC)  
 protocol – Iu Mode – GMR-1 3G 44.160
- ETSI TS 101376-5-2 V 3.4.1:2015  
 GEO-Mobile Radio Interface Specifications (Release 3)  
 – Third Generation Satellite Packet Radio Service – Part 5:  
 Radio interface physical layer specifications – Sub-part 2:  
 Multiplexing and Multiple Access – Stage 2 Service Description  
 – GMR-1 3G 45.002
- ETSI TS 101376-5-5 V 3.4.1:2015  
 GEO-Mobile Radio Interface Specifications (Release 3)  
 – Third Generation Satellite Packet Radio Service – Part 5:  
 Radio interface physical layer specifications – Sub-part 5:  
 Radio Transmission and Reception – GMR-1 3G 45.005
- ETSI TS 101376-5-6 V 3.4.1:2015  
 GEO-Mobile Radio Interface Specifications (Release 3)  
 – Third Generation Satellite Packet Radio Service – Part 5:  
 Radio interface physical layer specifications – Sub-part 6:  
 Radio Subsystem Link Control – GMR-1 3G 45.008
- ETSI TS 101376-5-7 V 3.4.1:2015  
 GEO-Mobile Radio Interface Specifications (Release 3)  
 – Third Generation Satellite Packet Radio Service – Part 5:  
 Radio interface physical layer specifications – Sub-part 7:  
 Radio Subsystem Synchronization – GMR-1 3G 45.010
- ETSI TS 102744-1-1 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 1: General  
 Specifications – Sub-part 1: Services and Architectures
- ETSI TS 102744-1-2 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 1: General  
 Specifications – Sub-part 2: System Operation Overview
- ETSI TS 102744-1-3 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 1: General Specifications  
 – Sub-part 3: Satellite Radio Interface Overview
- ETSI TS 102744-1-4 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 1: General Specifications  
 – Sub-part 4: Applicable External Specifications, Symbols and  
 Abbreviations
- ETSI TS 102744-2-1 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 2: Physical Layer  
 Specifications – Sub-part 1: Physical Layer Interface
- ETSI TS 102744-2-2 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 2: Physical Layer  
 Specifications – Sub-part 2: Radio Transmission and  
 Reception
- ETSI TS 102744-3-1 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 1: Bearer Control  
 Layer Interface
- ETSI TS 102744-3-2 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 2: Bearer Control  
 Layer Operation
- ETSI TS 102744-3-3 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 3: Bearer Connection  
 Layer Interface
- ETSI TS 102744-3-4 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 4: Bearer Connection  
 Layer Operation
- ETSI TS 102744-3-5 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 5: Adaptation Layer  
 Interface
- ETSI TS 102744-3-6 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 6: Adaptation Layer  
 Operation
- ETSI TS 102744-3-7 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 7: NAS Layer  
 Interface Extensions for MBMS Services
- ETSI TS 102744-3-8 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 8: NAS Layer and  
 User Plane Operation for MBMS Services
- ETSI TS 102744-3-9 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 3: Control Plane  
 and User Plane Specifications – Sub-part 9: Initiation and  
 Operation of User Plane
- ETSI TS 102744-4-1 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 4: Enhanced  
 Services and Applications – Sub-part 1: Multiple Voice  
 Services
- ETSI TS 102744-4-2 V 1.1.1:2015  
 Satellite Earth Stations and Systems (SES) – Family SL  
 Satellite Radio Interface (Release 1) – Part 4: Enhanced  
 Services and Applications – Sub-part 2: Aeronautical Safety  
 Services

### 33.070.50 Globalni sustavi za pokretnе komunikacije (GSM)

#### Europska normizacija ETSI

- ETSI TS 123003 V 12.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 12.8.0 Release 12)
- ETSI TS 123008 V 12.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Organization of subscriber data (3GPP TS 23.008 version 12.8.0 Release 12)
- ETSI TS 123060 V 12.10.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 12.10.0 Release 12)
- ETSI TS 123122 V 12.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 12.8.0 Release 12)
- ETSI TS 123203 V 12.10.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control architecture (3GPP TS 23.203 version 12.10.0 Release 12)
- ETSI TS 123246 V 12.6.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Architecture and functional description (3GPP TS 23.246 version 12.6.0 Release 12)

- ETSI TS 123303 V 12.6.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Proximity-based services (ProSe) – Stage 2  
 (3GPP TS 23.303 version 12.6.0 Release 12)
- ETSI TS 123401 V 12.10.0:2015  
 LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 12.10.0 Release 12)
- ETSI TS 123468 V 12.6.0:2015  
 LTE – Group Communication System Enablers for LTE (GCSE LTE) – Stage 2 (3GPP TS 23.468 version 12.6.0 Release 12)
- ETSI TS 124008 V 11.16.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 11.16.0 Release 11)
- ETSI TS 124008 V 12.11.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 12.11.0 Release 12)
- ETSI TS 124229 V 11.17.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 11.17.0 Release 11)
- ETSI TS 124229 V 12.10.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – 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 12.10.0 Release 12)
- ETSI TS 124237 V 12.10.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity – Stage 3 (3GPP TS 24.237 version 12.10.0 Release 12)
- ETSI TS 124301 V 12.10.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS) – Stage 3 (3GPP TS 24.301 version 12.10.0 Release 12)
- ETSI TS 124302 V 12.10.0:2015  
 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 12.10.0 Release 12)
- ETSI TS 124305 V 11.1.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Selective Disabling of 3GPP User Equipment Capabilities (SDoUE) Management Object (MO) (3GPP TS 24.305 version 11.1.0 Release 11)
- ETSI TS 124305 V 12.2.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Selective Disabling of 3GPP User Equipment Capabilities (SDoUE) Management Object (MO) (3GPP TS 24.305 version 12.2.0 Release 12)
- ETSI TS 124312 V 12.10.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – Access Network Discovery and Selection Function (ANDSF) Management Object (MO) (3GPP TS 24.312 version 12.10.0 Release 12)
- ETSI TS 124334 V 12.4.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects – Stage 3 (3GPP TS 24.334 version 12.4.0 Release 12)
- ETSI TS 124368 V 12.4.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access Stratum (NAS) configuration Management Object (MO) (3GPP TS 24.368 version 12.4.0 Release 12)
- ETSI TS 124390 V 11.6.0:2015  
 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 11.6.0 Release 11)
- ETSI TS 124390 V 12.3.0:2015  
 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 12.3.0 Release 12)
- ETSI TS 124504 V 8.22.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – TISPAN – PSTN/ISDN simulation services: Communication Diversion (CDIV) – Protocol specification (3GPP TS 24.504 version 8.22.0 Release 8)
- ETSI TS 124604 V 8.19.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 8.19.0 Release 8)
- ETSI TS 124604 V 9.16.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 9.16.0 Release 9)
- ETSI TS 124604 V 10.11.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 10.11.0 Release 10)
- ETSI TS 124604 V 11.11.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 11.11.0 Release 11)
- ETSI TS 124604 V 12.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 12.8.0 Release 12)
- ETSI TS 125101 V 11.12.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 11.12.0 Release 11)
- ETSI TS 125101 V 12.9.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 12.9.0 Release 12)
- ETSI TS 125104 V 11.11.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 11.11.0 Release 11)
- ETSI TS 125104 V 12.6.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 12.6.0 Release 12)
- ETSI TS 125141 V 11.11.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 11.11.0 Release 11)
- ETSI TS 125141 V 12.7.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 12.7.0 Release 12)

- ETSI TS 125306 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) – UE Radio Access capabilities (3GPP TS 25.306 version 12.6.0 Release 12)
- ETSI TS 125331 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS)  
– Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 12.7.0 Release 12)
- ETSI TS 126114 V 12.11.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS)  
– Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 12.11.0 Release 12)
- ETSI TS 126132 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 12.7.0 Release 12)
- ETSI TS 126244 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Transparent end-to-end packet switched streaming service (PSS) – 3GPP file format (3GP) (3GPP TS 26.244 version 12.4.0 Release 12)
- ETSI TS 126346 V 11.13.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 11.13.0 Release 11)
- ETSI TS 126346 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 12.7.0 Release 12)
- ETSI TS 126442 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Codec for Enhanced Voice Services (EVS) – ANSI C code (fixed-point) (3GPP TS 26.442 version 12.4.0 Release 12)
- ETSI TS 126444 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Codec for Enhanced Voice Services (EVS) – Test sequences (3GPP TS 26.444 version 12.4.0 Release 12)
- ETSI TS 126445 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Codec for Enhanced Voice Services (EVS) – Detailed algorithmic description (3GPP TS 26.445 version 12.4.0 Release 12)
- ETSI TS 126447 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Codec for Enhanced Voice Services (EVS) – Error concealment of lost packets (3GPP TS 26.447 version 12.4.0 Release 12)
- ETSI TS 127007 V 12.10.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – AT command set for User Equipment (UE) (3GPP TS 27.007 version 12.10.0 Release 12)
- ETSI TS 129061 V 9.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 9.15.0 Release 9)
- ETSI TS 129061 V 10.13.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 10.13.0 Release 10)
- ETSI TS 129061 V 11.10.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 11.10.0 Release 11)
- ETSI TS 129061 V 12.10.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.061 version 12.10.0 Release 12)
- ETSI TS 129163 V 8.28.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 8.28.0 Release 8)
- ETSI TS 129163 V 9.22.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 9.22.0 Release 9)
- ETSI TS 129163 V 10.18.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 10.18.0 Release 10)
- ETSI TS 129163 V 11.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 11.15.0 Release 11)
- ETSI TS 129163 V 12.9.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 12.9.0 Release 12)
- ETSI TS 129165 V 10.20.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 10.20.0 Release 10)
- ETSI TS 129165 V 11.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.15.0 Release 11)
- ETSI TS 129165 V 12.9.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 12.9.0 Release 12)
- ETSI TS 129201 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Representational State Transfer (REST) reference point between Application Function (AF) and Protocol Converter (PC) (3GPP TS 29.201 version 12.3.0 Release 12)
- ETSI TS 129212 V 11.17.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 11.17.0 Release 11)
- ETSI TS 129212 V 12.10.0:2015  
Universal Mobile Telecommunications System (UMTS) – LTE  
– Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 12.10.0 Release 12)
- ETSI TS 129213 V 12.9.0:2015  
Digital cellular telecommunications system (Phase 2+)  
– Universal Mobile Telecommunications System (UMTS)  
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 12.9.0 Release 12)
- ETSI TS 129214 V 11.16.0:2015  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 11.16.0 Release 11)

ETSI TS 129214 V 12.9.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 12.9.0 Release 12)	ETSI TS 129292 V 12.6.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 12.6.0 Release 12)
ETSI TS 129215 V 12.8.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) over S9 reference point – Stage 3 (3GPP TS 29.215 version 12.8.0 Release 12)	ETSI TS 129337 V 11.6.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Diameter-based T4 Interface for communications with packet data networks and applications (3GPP TS 29.337 version 11.6.0 Release 11)
ETSI TS 129228 V 11.11.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 11.11.0 Release 11)	ETSI TS 129337 V 12.6.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Diameter-based T4 Interface for communications with packet data networks and applications (3GPP TS 29.337 version 12.6.0 Release 12)
ETSI TS 129228 V 12.7.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 12.7.0 Release 12)	ETSI TS 129343 V 12.3.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-services (ProSe) function to ProSe application server aspects (PC2) – Stage 3 (3GPP TS 29.343 version 12.3.0 Release 12)
ETSI TS 129229 V 11.5.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Cx and Dx interfaces based on the Diameter protocol – Protocol details (3GPP TS 29.229 version 11.5.0 Release 11)	ETSI TS 129368 V 11.7.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 version 11.7.0 Release 11)
ETSI TS 129229 V 12.7.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Cx and Dx interfaces based on the Diameter protocol – Protocol details (3GPP TS 29.229 version 12.7.0 Release 12)	ETSI TS 129368 V 12.6.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 version 12.6.0 Release 12)
ETSI TS 129230 V 12.10.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 12.10.0 Release 12)	ETSI TS 131102 V 12.9.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 12.9.0 Release 12)
ETSI TS 129272 V 11.12.0:2015 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 11.12.0 Release 11)	ETSI TS 131124 V 12.5.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 12.5.0 Release 12)
ETSI TS 129272 V 12.8.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 12.8.0 Release 12)	ETSI TS 132251 V 11.12.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 11.12.0 Release 11)
ETSI TS 129274 V 12.10.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 12.10.0 Release 12)	ETSI TS 132251 V 12.11.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 12.11.0 Release 12)
ETSI TS 129292 V 8.11.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 8.11.0 Release 8)	ETSI TS 132260 V 11.16.1:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – IP Multimedia Subsystem (IMS) charging (3GPP TS 32.260 version 11.16.1 Release 11)
ETSI TS 129292 V 9.7.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 9.7.0 Release 9)	ETSI TS 132260 V 12.9.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – IP Multimedia Subsystem (IMS) charging (3GPP TS 32.260 version 12.9.0 Release 12)
ETSI TS 129292 V 10.9.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 10.9.0 Release 10)	ETSI TS 132273 V 12.3.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Multimedia Broadcast and Multicast Service (MBMS) charging (3GPP TS 32.273 version 12.3.0 Release 12)
ETSI TS 129292 V 11.9.0:2015 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 11.9.0 Release 11)	ETSI TS 132276 V 12.1.0:2015 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Voice Call Service (VCS) charging (3GPP TS 32.276 version 12.1.0 Release 12)

- ETSI TS 132277 V 12.3.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Telecommunication management – Charging management – Proximity-based Services (ProSe) charging (3GPP TS 32.277 version 12.3.0 Release 12)
- ETSI TS 132296 V 12.4.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Online Charging System (OCS): Applications and interfaces (3GPP TS 32.296 version 12.4.0 Release 12)
- ETSI TS 132298 V 11.14.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 11.14.0 Release 11)
- ETSI TS 132298 V 12.9.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 12.9.0 Release 12)
- ETSI TS 132299 V 10.17.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 10.17.0 Release 10)
- ETSI TS 132299 V 11.17.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 11.17.0 Release 11)
- ETSI TS 132299 V 12.10.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 12.10.0 Release 12)
- ETSI TS 133107 V 12.12.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Lawful interception architecture and functions (3GPP TS 33.107 version 12.12.0 Release 12)
- ETSI TS 133108 V 12.10.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 12.10.0 Release 12)
- ETSI TS 133203 V 12.9.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3G security – Access security for IP-based services (3GPP TS 33.203 version 12.9.0 Release 12)
- ETSI TS 133303 V 12.5.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Proximity-based Services (ProSe) – Security aspects (3GPP TS 33.303 version 12.5.0 Release 12)
- ETSI TS 133401 V 9.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 9.8.0 Release 9)
- ETSI TS 133401 V 10.6.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 10.6.0 Release 10)
- ETSI TS 133401 V 11.8.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 11.8.0 Release 11)
- ETSI TS 133401 V 12.15.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 12.15.0 Release 12)
- ETSI TS 133402 V 12.6.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Universal Mobile Telecommunications System (UMTS)  
 – LTE – 3GPP System Architecture Evolution (SAE) – Security aspects of non-3GPP accesses (3GPP TS 33.402 version 12.6.0 Release 12)
- ETSI TS 134108 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – Common test environments for User Equipment (UE)  
 – Conformance testing (3GPP TS 34.108 version 12.1.0 Release 12)
- ETSI TS 134121-1 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 1: Conformance specification (3GPP TS 34.121-1 version 12.1.0 Release 12)
- ETSI TS 134121-2 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 34.121-2 version 12.1.0 Release 12)
- ETSI TS 134122 V 11.11.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – Terminal conformance specification – Radio transmission and reception (TDD) (3GPP TS 34.122 version 11.11.0 Release 11)
- ETSI TS 134123-1 V 12.0.0:2015  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.123-1 version 12.0.0 Release 12)
- ETSI TS 134123-1 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.123-1 version 12.1.0 Release 12)
- ETSI TS 134123-2 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification – Part 2: Implementation conformance statement (ICS) proforma specification (3GPP TS 34.123-2 version 12.1.0 Release 12)
- ETSI TS 134123-3 V 12.1.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.123-3 version 12.1.0 Release 12)
- ETSI TS 134229-1 V 12.7.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.229-1 version 12.7.0 Release 12)
- ETSI TS 134229-2 V 12.6.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) specification (3GPP TS 34.229-2 version 12.6.0 Release 12)
- ETSI TS 134229-3 V 11.1.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.229-3 version 11.1.0 Release 11)

- ETSI TS 136101 V 10.20.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – User Equipment (UE) radio transmission and reception  
 (3GPP TS 36.101 version 10.20.0 Release 10)
- ETSI TS 136101 V 11.14.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – User Equipment (UE) radio transmission and reception  
 (3GPP TS 36.101 version 11.14.0 Release 11)
- ETSI TS 136101 V 12.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – User Equipment (UE) radio transmission and reception  
 (3GPP TS 36.101 version 12.9.0 Release 12)
- ETSI TS 136104 V 11.13.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Base Station (BS) radio transmission and reception  
 (3GPP TS 36.104 version 11.13.0 Release 11)
- ETSI TS 136104 V 12.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Base Station (BS) radio transmission and reception  
 (3GPP TS 36.104 version 12.9.0 Release 12)
- ETSI TS 136116 V 11.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Relay radio transmission and reception  
 (3GPP TS 36.116 version 11.6.0 Release 11)
- ETSI TS 136116 V 12.3.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Relay radio transmission and reception  
 (3GPP TS 36.116 version 12.3.0 Release 12)
- ETSI TS 136117 V 11.3.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE  
 – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Relay conformance testing (3GPP TS 36.117 version 11.3.0 Release 11)
- ETSI TS 136117 V 12.2.0:2015  
 Universal Mobile Telecommunications System (UMTS) – LTE  
 – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Relay conformance testing (3GPP TS 36.117 version 12.2.0 Release 12)
- ETSI TS 136133 V 10.20.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Requirements for support of radio resource management  
 (3GPP TS 36.133 version 10.20.0 Release 10)
- ETSI TS 136133 V 11.13.1:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Requirements for support of radio resource management  
 (3GPP TS 36.133 version 11.13.1 Release 11)
- ETSI TS 136133 V 11.14.1:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Requirements for support of radio resource management  
 (3GPP TS 36.133 version 11.14.1 Release 11)
- ETSI TS 136133 V 12.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Requirements for support of radio resource management  
 (3GPP TS 36.133 version 12.9.0 Release 12)
- ETSI TS 136141 V 11.13.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing  
 (3GPP TS 36.141 version 11.13.0 Release 11)
- ETSI TS 136141 V 12.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing  
 (3GPP TS 36.141 version 12.9.0 Release 12)
- ETSI TS 136211 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical channels and modulation  
 (3GPP TS 36.211 version 12.7.0 Release 12)
- ETSI TS 136212 V 10.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Multiplexing and channel coding  
 (3GPP TS 36.212 version 10.9.0 Release 10)
- ETSI TS 136212 V 11.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Multiplexing and channel coding  
 (3GPP TS 36.212 version 11.6.0 Release 11)
- ETSI TS 136212 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Multiplexing and channel coding  
 (3GPP TS 36.212 version 12.6.0 Release 12)
- ETSI TS 136213 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Physical layer procedures (3GPP TS 36.213 version 12.7.0 Release 12)
- ETSI TS 136300 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2  
 (3GPP TS 36.300 version 12.7.0 Release 12)
- ETSI TS 136302 V 12.5.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – Services provided by the physical layer  
 (3GPP TS 36.302 version 12.5.0 Release 12)
- ETSI TS 136304 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode  
 (3GPP TS 36.304 version 12.6.0 Release 12)
- ETSI TS 136306 V 10.14.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities  
 (3GPP TS 36.306 version 10.14.0 Release 10)
- ETSI TS 136306 V 11.12.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities  
 (3GPP TS 36.306 version 11.12.0 Release 11)
- ETSI TS 136306 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities  
 (3GPP TS 36.306 version 12.6.0 Release 12)
- ETSI TS 136307 V 10.16.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band  
 (3GPP TS 36.307 version 10.16.0 Release 10)
- ETSI TS 136307 V 11.13.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band  
 (3GPP TS 36.307 version 11.13.0 Release 11)
- ETSI TS 136307 V 12.9.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band  
 (3GPP TS 36.307 version 12.9.0 Release 12)
- ETSI TS 136321 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification  
 (3GPP TS 36.321 version 12.7.0 Release 12)
- ETSI TS 136322 V 12.3.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Link Control (RLC) protocol specification  
 (3GPP TS 36.322 version 12.3.0 Release 12)
- ETSI TS 136331 V 10.18.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification  
 (3GPP TS 36.331 version 10.18.0 Release 10)
- ETSI TS 136331 V 11.13.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification  
 (3GPP TS 36.331 version 11.13.0 Release 11)
- ETSI TS 136331 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification  
 (3GPP TS 36.331 version 12.7.0 Release 12)

- ETSI TS 136423 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 12.7.0 Release 12)
- ETSI TS 136508 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Common test environments for User Equipment (UE) conformance testing (3GPP TS 36.508 version 12.7.0 Release 12)
- ETSI TS 136509 V 12.1.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Special conformance testing functions for User Equipment (UE) (3GPP TS 36.509 version 12.1.0 Release 12)
- ETSI TS 136521-1 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 12.6.0 Release 12)
- ETSI TS 136521-1 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)  
 – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 12.7.0 Release 12)
- ETSI TS 136521-2 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 12.7.0 Release 12)
- ETSI TS 136521-3 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 12.6.0 Release 12)
- ETSI TS 136521-3 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 12.7.0 Release 12)
- ETSI TS 136523-1 V 12.6.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 12.6.0 Release 12)
- ETSI TS 136523-1 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 12.7.0 Release 12)
- ETSI TS 136523-2 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 12.7.0 Release 12)
- ETSI TS 136523-3 V 12.3.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 12.3.0 Release 12)
- ETSI TR 136903 V 12.7.0:2015  
 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test tolerances for Radio Resource Management (RRM) conformance tests (3GPP TR 36.903 version 12.7.0 Release 12)
- ETSI TS 137571-1 V 12.4.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)  
 – User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 12.4.0 Release 12)
- ETSI TS 137571-2 V 12.3.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 2: Protocol conformance (3GPP TS 37.571-2 version 12.3.0 Release 12)
- ETSI TS 137571-3 V 12.4.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 12.4.0 Release 12)
- ETSI TS 137571-3 V 12.4.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 12.2.0 Release 12)
- ETSI TS 137571-4 V 12.2.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 12.2.0 Release 12)
- ETSI TS 137571-5 V 12.3.0:2015  
 Universal Mobile Telecommunications System (UMTS)  
 – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)  
 – User Equipment (UE) conformance specification for UE positioning – Part 5: Test scenarios and assistance data (3GPP TS 37.571-5 version 12.3.0 Release 12)
- ETSI TS 143068 V 12.1.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Voice Group Call Service (VGCS) – Stage 2 (3GPP TS 43.068 version 12.1.0 Release 12)
- ETSI TS 143069 V 12.1.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Voice Broadcast Service (VBS) – Stage 2 (3GPP TS 43.069 version 12.1.0 Release 12)
- ETSI TS 151010-1 V 12.5.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 12.5.0 Release 12)
- ETSI TS 151010-1 V 12.6.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 12.6.0 Release 12)
- ETSI TS 151010-2 V 12.6.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Mobile Station (MS) conformance specification – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (3GPP TS 51.010-2 version 12.6.0 Release 12)
- ETSI TS 151010-5 V 10.14.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Mobile Station (MS) conformance specification – Part 5: Inter-Radio-Access-Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS) (3GPP TS 51.010-5 version 10.14.0 Release 10)
- ETSI TS 151010-7 V 12.5.0:2015  
 Digital cellular telecommunications system (Phase 2+)  
 – Mobile Station (MS) conformance specification – Part 7: Location Services (LCS) test scenarios and assistance data (3GPP TS 51.010-7 version 12.5.0 Release 12)

### **33.070.99 Ostale pokretne službe**

#### **Europska normizacija ETSI**

ETSI TS 124103 V 12.3.0:2015

Universal Mobile Telecommunications System (UMTS)  
– LTE – Telepresence using the IP Multimedia (IM) Core Network (CN) Subsystem (IMS) – Stage 3 (3GPP TS 24.103 version 12.3.0 Release 12)

ETSI TS 124371 V 12.3.0:2015

Universal Mobile Telecommunications System (UMTS)  
– LTE – Web Real-Time Communications (WebRTC) access to the IP Multimedia (IM) Core Network (CN) subsystem (IMS) – Stage 3 – Protocol specification (3GPP TS 24.371 version 12.3.0 Release 12)

ETSI TS 126443 V 12.3.0:2015

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (floating-point) (3GPP TS 26.443 version 12.3.0 Release 12)

ETSI TR 126952 V 12.3.0:2015

Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Performance characterization (3GPP TR 26.952 version 12.3.0 Release 12)

### **33.100.01 Elektromagnetska kompatibilnost općenito**

#### **Europska normizacija CENELEC**

CLC/TR 50627:2015

Study Report on Electromagnetic Interference between Electrical Equipment/Systems in the Frequency Range Below 150 kHz

#### **ETSI**

EN 301908-10 V 4.2.1:2015

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks – Part 10: Harmonised Standard for IMT-2000, FDMA/TDMA (DECT) covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 302054-1 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 1: Technical characteristics and test methods

EN 302054-2 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

### **33.100.10 Zračenje**

#### **Europska normizacija ETSI**

EN 302054-1 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 1: Technical characteristics and test methods

EN 302054-2 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 302454-1 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 1668,4 MHz to 1690 MHz frequency range – Part 1: Technical characteristics and test methods

EN 302454-2 V 1.2.1:2015

Meteorological Aids (Met Aids) – Radiosondes to be used in the 1668,4 MHz to 1690 MHz frequency range – Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

ETSI TS 102726-3 V 2.2.1:2015

Electromagnetic compatibility and Radio spectrum Matters (ERM) – Conformance testing for Mode 1 of the digital Private Mobile Radio (dPMRTM) – Part 3: Interoperability Test Suite Structure and Test Purposes (TSS&TP) specification

### **33.100.20 Otpornost**

#### **Europska normizacija CENELEC**

EN 61000-6-5:2015

Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for equipment used in power station and substation environment (IEC 61000-6-5:2015)

#### **Međunarodna normizacija IEC**

IEC 61000-4-24:2015

Electromagnetic compatibility (EMC) – Part 4-24: Testing and measurement techniques – Test methods for protective devices for HEMP conducted disturbance

### **33.120.10 Koaksijalni kabeli. Valovodi**

#### **Europska normizacija CENELEC**

EN 50289-1-17:2015

Communication cables – Specifications for test methods – Part 1-17: Electrical test methods – Exogenous Crosstalk ExNEXT and ExFEXT

EN 50289-4-17:2015

Communication cables – Specifications for test methods – Part 4-17: Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable

EN 61726:2015

Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method (IEC 61726:2015)

#### **Međunarodna normizacija IEC**

IEC 61196-1-116:2015

Coaxial communication cables – Part 1-116: Electrical test methods – Test for impedance with time domain reflectometry (TDR)

IEC 61196-9-1:2015

Coaxial communication cables – Part 9-1: Flexible RF coaxial cables – Blank detail specification

IEC 62153-4-10:2015

Metallic communication cable test methods – Part 4-10: Electromagnetic compatibility (EMC) – Transfer impedance and screening attenuation of feed-throughs and electromagnetic gaskets – Double coaxial test method

### **33.120.30 RF konektori**

#### **Europska normizacija CENELEC**

EN 61169-52:2015

Radio-frequency connectors – Part 52: Sectional specification for series MMCX RF coaxial connectors (IEC 61169-52:2015)

EN 61726:2015

Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method (IEC 61726:2015)

### **33.140 Posebna mjerna oprema za upotrebu u telekomunikacijama**

#### **Međunarodna normizacija IEC**

IEC 62087-2:2015  
Audio, video, and related equipment – Determination of power consumption – Part 2: Signals and media

### **33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito**

#### **Međunarodna normizacija IEC**

IEC 62368-1 Corrigendum 2:2015  
Audio/video, information and communication technology equipment – Part 1: Safety requirements; Corrigendum 2

### **33.160.25 Televizijski prijamnici**

#### **Europska normizacija CENELEC**

EN 62753:2015  
Digital terrestrial television receivers for the DTMB system (IEC 62753:2015)

### **33.160.50 Pribor**

#### **Međunarodna normizacija IEC**

IEC 62459 Corrigendum 1:2015  
Sound system equipment – Electroacoustic transducers – Measurement of suspension parts; Corrigendum 1

### **33.170 Televizijski i radijski prijenos**

#### **Europska normizacija ETSI**

EN 300744 V 1.6.2:2015  
Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television

EN 302769 V 1.3.1:2015  
Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital transmission system for cable systems (DVB-C2)

ETSI TS 101756 V 1.7.1:2015  
Digital Audio Broadcasting (DAB) – Registered Tables

ETSI TR 102376-1 V 1.2.1:2015  
Digital Video Broadcasting (DVB) – Implementation guidelines for the second generation system for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications – Part 1: DVB-S2

ETSI TR 102376-2 V 1.1.1:2015  
Digital Video Broadcasting (DVB) – Implementation guidelines for the second generation system for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications – Part 2: S2 Extensions (DVB-S2X)

ETSI TS 102796 V 1.3.1:2015  
Hybrid Broadcast Broadband TV

ETSI TS 102822-3-1 V 1.9.1:2015  
Broadcast and On-line Services: Search, select, and rightful use of content on personal storage systems ('TV-Anytime') – Part 3: Metadata – Sub-part 1: Phase 1 – Metadata schemas

ETSI TS 103190-2 V 1.1.1:2015  
Digital Audio Compression (AC-4) Standard Part 2: Immersive and personalized audio

ETSI TS 103205 V 1.2.1:2015  
Digital Video Broadcasting (DVB) – Extensions to the CI PlusTM Specification

ETSI TS 103270 V 1.2.1:2015  
RadioDNS Hybrid Radio – Hybrid lookup for radio services

### **33.180.10 Svjetlovodna vlakna i kabeli**

#### **Europska normizacija CENELEC**

EN 50289-4-17:2015  
Communication cables – Specifications for test methods – Part 4-17: Test methods for UV resistance evaluation of the sheath of electrical and optical fibre cable

EN 60332-1-1:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus (IEC 60332-1-1:2004/A1:2015)

EN 60332-1-2:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2:2004/A1:2015)

EN 60332-1-3:2004/A1:2015  
Tests on electric and optical fibre cables under fire conditions – Part 1-3: Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles (IEC 60332-1-3:2004/A1:2015)

EN 60793-2-30:2015  
Optical fibres – Part 2-30: Product specifications – Sectional specification for category A3 multimode fibres (IEC 60793-2-30:2015)

#### **Međunarodna normizacija IEC**

IEC 60793-2:2015  
Optical fibres – Part 2: Product specifications – General

IEC 60793-2-10:2015  
Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres

IEC 60793-2-20:2015  
Optical fibres – Part 2-20: Product specifications – Sectional specification for category A2 multimode fibres

IEC 60793-2-40:2015  
Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres

IEC 60793-2-50:2015  
Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres

IEC 60794-1-1:2015  
Optical fibre cables – Part 1-1: Generic specification – General

IEC 60794-3-21:2015  
Optical fibre cables – Part 3-21: Outdoor cables – Product specification for optical self-supporting aerial telecommunication cables for use in premises cabling

### **33.180.20 Svjetlovodni vezne naprave**

#### **Europska normizacija CENELEC**

EN 61300-3-35:2015  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers (IEC 61300-3-35:2015)

EN 61977:2015  
Fibre optic interconnecting devices and passive components – Fibre optic filters – Generic specification (IEC 61977:2015)

EN 62005-9-1:2015  
Fibre optic interconnecting devices and passive components – Reliability – Part 9-1: Qualification of passive optical components (IEC 62005-9-1:2015)

## Međunarodna normizacija IEC

IEC 61753-382-2:2015

Fibre optic interconnecting devices and passive components  
– Performance standard – Part 382-2: Non-connectorized single-mode bidirectional G-PON-NGA WWDM devices for category C – Controlled environment

IEC 61754-4-100:2015

Fibre optic interconnecting devices and passive components  
– Fibre optic connector interfaces – Part 4-100: Type SC connector family – Simplified receptacle SC-PC connector interfaces

IEC 61754-6-100:2015

Fibre optic interconnecting devices and passive components  
– Fibre optic connector interfaces – Part 6-100: Type MU connector family – Simplified receptacle MU-PC connector interfaces

IEC 62077:2015

Fibre optic interconnecting devices and passive components  
– Fibre optic circulators – Generic specification

## 33.180.30 Optička pojačala

### Europska normizacija CENELEC

EN 61290-4-3:2015

Optical amplifiers – Test methods – Part 4-3: Power transient parameters – Single channel optical amplifiers in output power control (IEC 61290-4-3:2015)

## 33.200 Daljinsko upravljanje. Daljinsko mjerjenje

### Europska normizacija CEN

EN 13757-5:2015

Communication systems for meters – Part 5: Wireless M-Bus relaying

EN 13757-6:2015

Communication systems for meters – Part 6: Local Bus

### Međunarodna normizacija IEC

IEC 60870-5-101 AMD 1:2015

Telecontrol equipment and systems – Part 5-101: Transmission protocols – Companion standard for basic telecontrol tasks; Amendment 1

IEC 60870-5-101 Edition 2.1:2015

Telecontrol equipment and systems – Part 5-101: Transmission protocols – Companion standard for basic telecontrol tasks

## 35.020 Informacijska tehnologija (IT) općenito

### Međunarodna normizacija ISO/IEC

ISO/IEC TR 20000-10:2015

Information technology – Service management – Part 10: Concepts and terminology

ISO/IEC 27013:2015

Information technology – Security techniques – Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1

## 35.040 Skupovi znakova i kodiranje informacija

### Europska normizacija CEN

EN 1573:2015

Bar code – Multi industry transport label

## Međunarodna normizacija ISO

ISO/IEC 14496-3 Technical Corrigendum 7:2015

Information technology – Coding of audio-visual objects  
– Part 3: Audio; Technical Corrigendum 7

ISO/IEC 14496-4 AMD 43:2015

Information technology – Coding of audio-visual objects  
– Part 4: Conformance testing – Amendment 43: 3D-AVC conformance testing

ISO/IEC 14496-5 AMD 36:2015

Information technology – Coding of audio-visual objects  
– Part 5: Reference software – Amendment 36: Pattern-based 3D mesh coding reference software

ISO/IEC 14496-5 AMD 37:2015

Information technology – Coding of audio-visual objects  
– Part 5: Reference software – Amendment 37: New levels for the AAC profiles, uniDRC support, AAC block length parameter corrections

ISO/IEC 14496-10 AMD 1:2015

Information technology – Coding of audio-visual objects  
– Part 10: Advanced Video Coding – Amendment 1: Multi-Resolution frame compatible stereoscopic video with depth maps, additional supplemental enhancement information and video usability information

ISO/IEC 14496-11:2015

Information technology – Coding of audio-visual objects  
– Part 11: Scene description and application engine

ISO/IEC 14496-12:2015

Information technology – Coding of audio-visual objects  
– Part 12: ISO base media file format

ISO/IEC 14496-22:2015

Information technology – Coding of audio-visual objects  
– Part 22: Open Font Format

ISO/IEC 14496-27 AMD 5:2015

Information technology – Coding of audio-visual objects  
– Part 27: 3D Graphics conformance – Amendment 5: Multi-resolution 3D mesh compression

ISO/IEC 15444-1 AMD 7:2015

Information technology – JPEG 2000 image coding system: Core coding system – Amendment 7: Profiles for an interoperable master format (IMF)

ISO/IEC 15444-5:2015

Information technology – JPEG 2000 image coding system: Reference software

ISO/IEC 15444-12:2015

Information technology – JPEG 2000 image coding system  
– Part 12: ISO base media file format

ISO/IEC 15938-5 AMD 5:2015

Information technology – Multimedia content description interface – Part 5: Multimedia description schemes – Amendment 5: Quality metadata, multiple text encodings, extended classification metadata

ISO/IEC 18033-5:2015

Information technology – Security techniques – Encryption algorithms – Part 5: Identity-based ciphers

ISO/IEC 19763-7:2015

Information technology – Metamodel framework for interoperability (MFI) – Part 7: Metamodel for service model registration

ISO/IEC 19763-8:2015

Information technology – Metamodel framework for interoperability (MFI) – Part 8: Metamodel for role and goal model registration

ISO/IEC TR 19763-9:2015

Information technology – Metamodel framework for interoperability (MFI) – Part 9: On demand model selection

ISO/IEC 19790 Technical Corrigendum 1:2015

Information technology – Security techniques – Security requirements for cryptographic modules; Technical Corrigendum 1

ISO/IEC 23000-13 AMD 1:2015  
Information technology – Multimedia application format (MPEG-A) – Part 13: Augmented reality application format – Amendment 1: ARAF reference software and conformance

ISO/IEC 23003-4:2015  
Information technology – MPEG audio technologies – Part 4: Dynamic Range Control

ISO/IEC 23008-3:2015  
Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 3: 3D audio

ISO/IEC TR 23008-13:2015  
Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 13: MMT implementation guidelines

ISO/IEC TR 23009-3:2015  
Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 3: Implementation guidelines

ISO/IEC 24759 Technical Corrigendum 1:2015  
Information technology – Security techniques – Test requirements for cryptographic modules; Technical Corrigendum 1

ISO/IEC 24769-61:2015  
Information Technology – Real Time Locating System (RTLS) Device Conformance Test Methods – Part 61: Low rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 24769-62:2015  
Information Technology – Real Time Locating System (RTLS) Device Conformance Test Methods – Part 62: High rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 24770-61:2015  
Information technology – Real Time Locating System (RTLS) device performance test methods – Part 61: Low rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 24770-62:2015  
Information technology – Real-time locating system (RTLS) device performance test methods – Part 62: High rate pulse repetition frequency Ultra Wide Band (UWB) air interface

ISO/IEC 27001 Technical Corrigendum 2:2015  
Information technology – Security techniques – Information security management systems – Requirements; Technical Corrigendum 2

ISO/IEC 27002 Technical Corrigendum 2:2015  
Information technology – Security techniques – Code of practice for information security controls; Technical Corrigendum 2

ISO/IEC 27006:2015  
Information technology – Security techniques – Requirements for bodies providing audit and certification of information security management systems

ISO/IEC 27010:2015  
Information technology – Security techniques – Information security management for inter-sector and inter-organizational communications

ISO/IEC 27013:2015  
Information technology – Security techniques – Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1

ISO/IEC 29167-14:2015  
Information technology – Automatic identification and data capture techniques – Part 14: Crypto suite AES OFB security services for air interface communications

ISO/IEC 29167-16:2015  
Information technology – Automatic identification and data capture techniques – Part 16: Crypto suite ECDSA-ECDH security services for air interface communications

ISO/IEC 29199-5 AMD 1:2015  
Information technology – JPEG XR image coding system – Part 5: Reference software – Amendment 1: Extension of the Reference Software: Support for the Boxed Based File Format

## IEC

ISO/IEC 14496-3 Technical Corrigendum 7:2015  
Information technology – Coding of audio-visual objects – Part 3: Audio; Technical Corrigendum 7

ISO/IEC 14496-4 AMD 43:2015  
Information technology – Coding of audio-visual objects – Part 4: Conformance testing – Amendment 43: 3D-AVC conformance testing

ISO/IEC 14496-5 AMD 36:2015  
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 36: Pattern-based 3D mesh coding reference software

ISO/IEC 14496-5 AMD 37:2015  
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 37: New levels for the AAC profiles, uniDRC support, AAC block length parameter corrections

ISO/IEC 14496-10 AMD 1:2015  
Information technology – Coding of audio-visual objects – Part 10: Advanced Video Coding – Amendment 1: Multi-Resolution frame compatible stereoscopic video with depth maps, additional supplemental enhancement information and video usability information

ISO/IEC 14496-11:2015  
Information technology – Coding of audio-visual objects – Part 11: Scene description and application engine

ISO/IEC 14496-12:2015  
Information technology – Coding of audio-visual objects – Part 12: ISO base media file format

ISO/IEC 14496-27 AMD 5:2015  
Information technology – Coding of audio-visual objects – Part 27: 3D Graphics conformance – Amendment 5: Multi-resolution 3D mesh compression

ISO/IEC 15444-1 AMD 7:2015  
Information technology – JPEG 2000 image coding system: Core coding system – Amendment 7: Profiles for an interoperable master format (IMF)

ISO/IEC 15444-12:2015  
Information technology – JPEG 2000 image coding system – Part 12: ISO base media file format

ISO/IEC 15938-5 AMD 5:2015  
Information technology – Multimedia content description interface – Part 5: Multimedia description schemes – Amendment 5: Quality metadata, multiple text encodings, extended classification metadata

ISO/IEC 18033-5:2015  
Information technology – Security techniques – Encryption algorithms – Part 5: Identity-based ciphers

ISO/IEC 23003-4:2015  
Information technology – MPEG audio technologies – Part 4: Dynamic Range Control

ISO/IEC TR 23008-13:2015  
Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 13: MMT implementation guidelines

ISO/IEC TR 23009-3:2015  
Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 3: Implementation guidelines

ISO/IEC 27001 Technical Corrigendum 2:2015  
Information technology – Security techniques – Information security management systems – Requirements; Technical Corrigendum 2

ISO/IEC 27002 Technical Corrigendum 2:2015  
Information technology – Security techniques – Code of practice for information security controls; Technical Corrigendum 2

ISO/IEC 27010:2015  
Information technology – Security techniques – Information security management for inter-sector and inter-organizational communications

ISO/IEC 27013:2015 Information technology – Security techniques – Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1	<b>IEC</b>
ISO/IEC 29167-14:2015 Information technology – Automatic identification and data capture techniques – Part 14: Crypto suite AES OFB security services for air interface communications	ISO/IEC 15026-3:2015 Systems and software engineering – Systems and software assurance – Part 3: System integrity levels
ISO/IEC 29167-16:2015 Information technology – Automatic identification and data capture techniques – Part 16: Crypto suite ECDSA-ECDH security services for air interface communications	ISO/IEC 25024:2015 Systems and software engineering – Systems and software Quality Requirements and Evaluation (SQuaRE) – Measurement of data quality
ISO/IEC 29199-5 AMD 1:2015 Information technology – JPEG XR image coding system – Part 5: Reference software – Amendment 1: Extension of the Reference Software: Support for the Boxed Based File Format	ISO/IEC 26550:2015 Software and systems engineering – Reference model for product line engineering and management
<b>35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji</b>	ISO/IEC 26555:2015 Software and systems engineering – Tools and methods for product line technical management

## Međunarodna normizacija IEC

IEC 61804-4:2015  
Function blocks (FB) for process control and electronic device description language (EDDL) – Part 4: EDD interpretation

## 35.080 Softver (programska podrška)

### Međunarodna normizacija ISO

ISO/IEC 15026-3:2015  
Systems and software engineering – Systems and software assurance – Part 3: System integrity levels

ISO/IEC 25024:2015  
Systems and software engineering – Systems and software Quality Requirements and Evaluation (SQuaRE) – Measurement of data quality

ISO/IEC 26550:2015  
Software and systems engineering – Reference model for product line engineering and management

ISO/IEC 26555:2015  
Software and systems engineering – Tools and methods for product line technical management

ISO/IEC TR 19759:2015  
Software Engineering – Guide to the software engineering body of knowledge (SWEBOK)

ISO/IEC 19770-2:2015  
Information technology – Software asset management – Part 2: Software identification tag

ISO/IEC 29110-2-1:2015  
Software Engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 2-1: Framework and taxonomy

ISO/IEC TR 29110-3-1:2015  
Systems and software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 3-1: Assessment guide

ISO/IEC TR 29110-3-4:2015  
Systems and software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 3-4: Autonomy-based improvement method

ISO/IEC TR 29110-5-6-1:2015  
Systems and software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 5-6-1: Systems engineering – Management and engineering guide: Generic profile group: Entry profile

ISO/IEC 29155-3:2015  
Systems and software engineering – Information technology project performance benchmarking framework – Part 3: Guidance for reporting

ISO/IEC 15026-3:2015 Systems and software engineering – Systems and software assurance – Part 3: System integrity levels	<b>IEC</b>
ISO/IEC 25024:2015 Systems and software engineering – Systems and software Quality Requirements and Evaluation (SQuaRE) – Measurement of data quality	ISO/IEC 26550:2015 Software and systems engineering – Reference model for product line engineering and management
ISO/IEC 26555:2015 Software and systems engineering – Tools and methods for product line technical management	ISO/IEC 29110-2-1:2015 Software Engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 2-1: Framework and taxonomy
ISO/IEC TR 29110-5-6-1:2015 Systems and software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 5-6-1: Systems engineering – Management and engineering guide: Generic profile group: Entry profile	ISO/IEC 29155-3:2015 Systems and software engineering – Information technology project performance benchmarking framework – Part 3: Guidance for reporting

### 35.100.10 Fizikalni sloj

#### Europska normizacija CEN

EN 13757-5:2015  
Communication systems for meters – Part 5: Wireless M-Bus relaying

EN 13757-6:2015  
Communication systems for meters – Part 6: Local Bus

### 35.100.20 Sloj veze između podataka

#### Europska normizacija CEN

EN 13757-5:2015  
Communication systems for meters – Part 5: Wireless M-Bus relaying

EN 13757-6:2015  
Communication systems for meters – Part 6: Local Bus

### 35.100.60 Sloj prikazivanja

#### Međunarodna normizacija ISO/IEC

ISO/IEC 8824-1:2015  
Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation

ISO/IEC 8824-2:2015  
Information technology – Abstract Syntax Notation One (ASN.1): Information object specification

ISO/IEC 8824-3:2015  
Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification

ISO/IEC 8824-4:2015  
Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications

ISO/IEC 8825-1:2015  
Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)

- ISO/IEC 8825-2:2015  
Information technology – ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)
- ISO/IEC 8825-3:2015  
Information technology – ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)
- ISO/IEC 8825-4:2015  
Information technology – ASN.1 encoding rules: XML Encoding Rules (XER)
- ISO/IEC 8825-5:2015  
Information technology – ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1
- ISO/IEC 8825-6:2015  
Information technology – ASN.1 encoding rules: Registration and application of PER encoding instructions
- ISO/IEC 8825-7:2015  
Information technology – ASN.1 encoding rules – Part 7: Specification of Octet Encoding Rules (OER)

## 35.110 Umrežavanje

### Europska normizacija ETSI

- ETSI TS 181019 V 3.0.0:2015  
Network Technologies (NTECH) – Business Communication Requirements
- ETSI TS 182023 V 3.0.0:2015  
Network Technologies (NTECH) – Core and enterprise NGN interaction scenarios – Architecture and functional description
- ETSI TS 182024 V 3.0.0:2015  
Network Technologies (NTECH) – Hosted Enterprise Services – Architecture, functional description and signalling
- ETSI TS 182025 V 3.4.0:2015  
Network Technologies (NTECH) – Business trunking – Architecture and functional description

## 35.140 Računalna grafika

### Međunarodna normizacija ISO/IEC

- ISO/IEC 19776-3:2015  
Information technology – Computergraphics, image processing and environmental data representation – Extensible 3D (X3D) encodings – Part 3: Compressed binary encoding

## 35.160 Mikroprocesorski sustavi

### Europska normizacija CENELEC

- EN 61784-5-4:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-4: Installation of fieldbuses – Installation profiles for CPF 4 (IEC 61784-5-4:2010/A1:2015)
- EN 61784-5-10:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10 (IEC 61784-5-10:2010/A1:2015)
- EN 61784-5-12:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12 (IEC 61784-5-12:2010/A1:2015)
- EN 61784-5-15:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-15: Installation of fieldbuses – Installation profiles for CPF 15 (IEC 61784-5-15:2010/A1:2015)

## 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

### Europska normizacija CEN

- CEN ISO/TR 9241-308:2015  
Ergonomics of human-system interaction – Part 308: Surface-conduction electron-emitter displays (SED) (ISO/TR 9241-308:2008)
- CEN ISO/TR 9241-309:2015  
Ergonomics of human-system interaction – Part 309: Organic light-emitting diode (OLED) displays (ISO/TR 9241-309:2008)
- CEN ISO/TR 9241-310:2015  
Ergonomics of human-system interaction – Part 310: Visibility, aesthetics and ergonomics of pixel defects (ISO/TR 9241-310:2010)

### Međunarodna normizacija ISO/IEC

- ISO/IEC TR 13066-4:2015  
Information technology – Interoperability with assistive technology (AT) – Part 4: Linux/UNIX graphical environments accessibility API

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija ISO/IEC

- ISO/IEC TR 11801-9903:2015  
Information technology – Generic cabling systems for customer premises – Part 9903: Matrix modelling of channels and links

## 35.220.30 Optičke naprave za pohranu podataka

### Međunarodna normizacija ISO

- ISO/IEC 30191:2015  
Information technology – Digitally recorded media for information interchange and storage – 120 mm Triple Layer (100,0 Gbytes single sided disk and 200,0 Gbytes double sided disk) and Quadruple Layer (128,0 Gbytes single sided disk) BD Recordable disk

## 35.240.01 Primjene informacijske tehnologije općenito

### Međunarodna normizacija ISO/IEC

- ISO/IEC TR 30109:2015  
Information technology – User interfaces – Worldwide availability of personalized computer environments

## 35.240.10 Računalno oblikovanje (CAD)

### Međunarodna normizacija ISO

- ISO 16792:2015  
Technical product documentation – Digital product definition data practices

## 35.240.15 Identifikacijske kartice i pripadajuće naprave

### Europska normizacija ETSI

- ETSI TS 102221 V 12.1.0:2015  
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 12)

ETSI TS 102221 V 13.0.0:2015  
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 13)

ETSI TS 102230-2 V 9.0.0:2015  
Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 2: UICC features (Release 9)

ETSI TS 102241 V 11.1.0:2015  
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 11)

ETSI TS 102241 V 12.0.0:2015  
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 12)

ETSI TS 102241 V 13.0.0:2015  
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 13)

ETSI TR 103380 V 1.0.0:2015  
Smart Cards – Technical Report to improve test equipment integrity (Release Independent)

ETSI TS 103383 V 12.8.0:2015  
Smart Cards – Embedded UICC – Requirements Specification (Release 12)

ETSI TS 103383 V 13.0.0:2015  
Smart Cards – Embedded UICC – Requirements Specification (Release 12)

#### Međunarodna normizacija ISO/IEC

ISO/IEC 17839-2:2015  
Information technology – Biometric System-on-Card – Part 2: Physical characteristics

ISO/IEC 18328-2:2015  
Identification cards – ICC-managed devices – Part 2: Physical characteristics and test methods for cards with devices

ISO/IEC 18584:2015  
Information technology – Identification cards – Conformance test requirements for on-card biometric comparison applications

ISO/IEC 19794-2 AMD 2:2015  
Information technology – Biometric data interchange formats – Part 2: Finger minutiae data – Amendment 2: XML encoding and clarification of defects

ISO/IEC 19794-4 AMD 2:2015  
Information technology – Biometric data interchange formats – Part 4: Finger image data – Amendment 2: XML encoding and clarification of defects

ISO/IEC 19794-5 Technical Corrigendum 4:2015  
Information technology – Biometric data interchange formats – Part 5: Face image data; Technical Corrigendum 4

ISO/IEC 19794-5 AMD 2:2015  
Information technology – Biometric data interchange formats – Part 5: Face image data – Amendment 2: XML encoding and clarification of defects

ISO/IEC TR 24722:2015  
Information technology – Biometrics – Multimodal and other multibiometric fusion

ISO/IEC 24779-9:2015  
Information technology – Cross-jurisdictional and societal aspects of implementation of biometric technologies – Pictograms, icons and symbols for use with biometric systems – Part 9: Vascular applications

ISO/IEC TR 29156:2015  
Information technology – Guidance for specifying performance requirements to meet security and usability needs in applications using biometrics

ISO/IEC 30108-1:2015  
Information technology – Biometric Identity Assurance Services – Part 1: BIAS services

ISO/IEC TR 30110:2015  
Information technology – Cross jurisdictional and societal aspects of implementation of biometric technologies – Biometrics and children

#### 35.240.30 Primjene IT-a u obavlješćivanju, dokumentaciji i izdavaštvu

##### Međunarodna normizacija ISO

ISO/IEC 19757-7 Technical Corrigendum 1:2015  
Information technology – Document Schema Definition Languages (DSDL) – Part 7: Character Repertoire Description Language (CREPDL); Technical Corrigendum 1

ISO/IEC 21320-1:2015  
Information technology – Document Container File – Part 1: Core

##### IEC

ISO/IEC 21320-1:2015  
Information technology – Document Container File – Part 1: Core

#### 35.240.50 Primjene IT-a u industriji

##### Europska normizacija CENELEC

EN 61784-5-4:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-4: Installation of fieldbuses – Installation profiles for CPF 4 (IEC 61784-5-4:2010/A1:2015)

EN 61784-5-10:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-10: Installation of fieldbuses – Installation profiles for CPF 10 (IEC 61784-5-10:2010/A1:2015)

EN 61784-5-12:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-12: Installation of fieldbuses – Installation profiles for CPF 12 (IEC 61784-5-12:2010/A1:2015)

EN 61784-5-15:2012/A1:2015  
Industrial communication networks – Profiles – Part 5-15: Installation of fieldbuses – Installation profiles for CPF 15 (IEC 61784-5-15:2010/A1:2015)

##### Međunarodna normizacija ISO

ISO 8000-8:2015  
Data quality – Part 8: Information and data quality: Concepts and measuring

##### IEC

IEC 61804-4:2015  
Function blocks (FB) for process control and electronic device description language (EDDL) – Part 4: EDD interpretation

#### 35.240.60 Primjene IT-a u prijevozu i trgovini

##### Europska normizacija CEN

CEN/TR 16815:2015  
CleANopen – Application profile for municipal vehicles

EN ISO 24014-1:2015  
Public transport – Interoperable fare management system – Part 1: Architecture (ISO 24014-1:2015)

##### ETSI

ETSI TS 103191-1 V 1.1.1:2015  
Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Signal Phase And Timing (SPAT) and Map (MAP) – Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma

ETSI TS 103191-2 V 1.1.1:2015  
Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Signal Phase And Timing (SPAT) and Map (MAP) – Part 2: Test Suite Structure and Test Purposes (TSS & TP)

ETSI TS 103191-3 V 1.1.1:2015 Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for Signal Phase And Timing (SPAT) and Map (MAP) – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)	ISO/TR 17427-8:2015 Intelligent transport systems – Cooperative ITS – Part 8: Liability aspects
<b>Međunarodna normizacija ISO</b>	ISO/TR 17427-9:2015 Intelligent transport systems – Cooperative ITS – Part 9: Compliance and enforcement aspects
ISO 12813:2015 Electronic fee collection – Compliance check communication for autonomous systems	ISO/TR 17427-10:2015 Intelligent transport systems – Cooperative ITS – Part 10: Driver distraction and information display
ISO 13141:2015 Electronic fee collection – Localisation augmentation communication for autonomous systems	ISO/IEC 18000-63:2015 Information technology – Radio frequency identification for item management – Part 63: Parameters for air interface communications at 860 MHz to 960 MHz Type C
ISO 14813-1:2015 Intelligent transport systems – Reference model architecture(s) for the ITS sector – Part 1: ITS service domains, service groups and services	ISO/IEC 18046-4:2015 Information technology – Radio frequency identification device performance test methods – Part 4: Test methods for performance of RFID gates in libraries
ISO 14817-1:2015 Intelligent transport systems – ITS central data dictionaries – Part 1: Requirements for ITS data definitions	ISO/TR 19639:2015 Electronic fee collection – Investigation of EFC standards for common payment schemes for multi-modal transport services
ISO 14817-2:2015 Intelligent transport systems – ITS central data dictionaries – Part 2: Governance of the Central ITS Data Concept Registry	ISO/TR 24097-2:2015 Intelligent transport systems – Using web services (machine-machine delivery) for ITS service delivery – Part 2: Elaboration of interoperable web services' interfaces
ISO 15784-2:2015 Intelligent transport systems (ITS) – Data exchange involving roadside modules communication – Part 2: Centre to field device communications using SNMP	ISO/IEC TR 20000-10:2015 Information technology – Service management – Part 10: Concepts and terminology
ISO 24014-1:2015 Public transport – Interoperable fare management system – Part 1: Architecture	<b>IEC</b>
ISO 24102-2:2015 Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 2: Remote management of ITS-SCUs	ISO/IEC 15944-2:2015 Information technology – Business Operational View – Part 2: Registration of scenarios and their components as business objects
ISO/IEC 15944-2:2015 Information technology – Business Operational View – Part 2: Registration of scenarios and their components as business objects	ISO/IEC 15944-9:2015 Information technology – Business Operational View – Part 9: Business transaction traceability framework for commitment exchange
ISO/IEC 15944-9:2015 Information technology – Business Operational View – Part 9: Business transaction traceability framework for commitment exchange	ISO/IEC 15944-20:2015 Information technology – Business Operational View – Part 20: Linking business operational view to functional service view
ISO/IEC 15944-20:2015 Information technology – Business Operational View – Part 20: Linking business operational view to functional service view	ISO/IEC 18000-63:2015 Information technology – Radio frequency identification for item management – Part 63: Parameters for air interface communications at 860 MHz to 960 MHz Type C
ISO/TR 17185-2:2015 Intelligent transport systems – Public transport user information – Part 2: Public transport data and interface standards catalogue and cross references	ISO/IEC 18046-4:2015 Information technology – Radio frequency identification device performance test methods – Part 4: Test methods for performance of RFID gates in libraries
ISO/TR 17329:2015 Gas cylinders – Identification of gas cylinder manufacturer marks and their assigned radio frequency identification (RFID) codes	ISO/IEC TR 20000-10:2015 Information technology – Service management – Part 10: Concepts and terminology
ISO/TR 17427-2:2015 Intelligent transport systems – Cooperative ITS – Part 2: Framework overview	ISO/IEC 29167-14:2015 Information technology – Automatic identification and data capture techniques – Part 14: Crypto suite AES OFB security services for air interface communications
ISO/TR 17427-3:2015 Intelligent transport systems – Cooperative ITS – Part 3: Concept of operations (ConOps) for 'core' systems	ISO/IEC 29167-16:2015 Information technology – Automatic identification and data capture techniques – Part 16: Crypto suite ECDSA-ECDH security services for air interface communications
ISO/TR 17427-4:2015 Intelligent transport systems – Cooperative ITS – Part 4: Minimum system requirements and behaviour for core systems	<b>35.240.70 Primjene IT-a u znanosti</b>
ISO/TR 17427-6:2015 Intelligent transport systems – Cooperative ITS – Part 6: 'Core system' risk assessment methodology	<b>Europska normizacija CEN</b>
ISO/TR 17427-7:2015 Intelligent transport systems – Cooperative ITS – Part 7: Privacy aspects	EN ISO 19135-1:2015 Geographic information – Procedures for item registration – Part 1: Fundamentals (ISO 19135-1:2015)

## Međunarodna normizacija ISO

- ISO 19109:2015  
Geographic information – Rules for application schema
- ISO 19135-1:2015  
Geographic information – Procedures for item registration – Part 1: Fundamentals

## 35.240.80 Primjene IT-a u tehnologiji zaštite zdravlja

### Europska normizacija CENELEC

- EN 62304:2006/A1:2015  
Medical device software – Software life-cycle processes (IEC 62304:2006/A1:2015)

### ETSI

- EN 303203 V 2.1.1:2015  
Short Range Devices (SRD) – Medical Body Area Network Systems (MBANSs) operating in the 2483,5 MHz to 2500 MHz range – Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

## Međunarodna normizacija ISO

- ISO 17090-2:2015  
Health informatics – Public key infrastructure – Part 2 : Certificate profile

## 35.240.99 Primjene IT-a u ostalim područjima

### Europska normizacija ETSI

- ETSI TR 103306 V 1.1.1:2015  
CYBER – Global Cyber Security Ecosystem
- ETSI GS ISI 002 V 1.2.1:2015  
Information Security Indicators (ISI) – Event Model A security event classification model and taxonomy
- ETSI GS ISI 005 V 1.1.1:2015  
Information Security Indicators (ISI) – Guidelines for security event detection testing and assessment of detection effectiveness
- ETSI GS MEC-IEG 004 V 1.1.1:2015  
Mobile-Edge Computing (MEC) – Service Scenarios

## Međunarodna normizacija ISO

- ISO 13374-4:2015  
Condition monitoring and diagnostics of machine systems – Data processing, communication and presentation – Part 4: Presentation
- ISO/IEC 19778-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 1: Collaborative workplace data model
- ISO/IEC 19778-2:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 2: Collaborative environment data model
- ISO/IEC 19778-3:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 3: Collaborative group data model
- ISO/IEC 19780-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative learning communication – Part 1: Text-based communication

ISO/IEC 19788-8:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 8: Data elements for MLR records

ISO/IEC 19788-9:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 9: Data elements for persons

### IEC

IEC/TR 61968-900:2015  
Application integration at electric utilities – System interfaces for distribution management – Part 900: Guidance for implementation of IEC 61968-9

IEC/TR 61998:2015  
Model and framework for standardization in multimedia equipment and systems

ISO/IEC 19778-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 1: Collaborative workplace data model

ISO/IEC 19778-2:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 2: Collaborative environment data model

ISO/IEC 19778-3:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative workplace – Part 3: Collaborative group data model

ISO/IEC 19780-1:2015  
Information technology – Learning, education and training – Collaborative technology – Collaborative learning communication – Part 1: Text-based communication

ISO/IEC 19788-8:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 8: Data elements for MLR records

ISO/IEC 19788-9:2015  
Information technology – Learning, education and training – Metadata for learning resources – Part 9: Data elements for persons

## 37.020 Optička oprema

### Međunarodna normizacija ISO

ISO 14132-1:2015  
Optics and photonics – Vocabulary for telescopic systems – Part 1: General terms and alphabetical indexes of terms in ISO 14132

ISO 14132-2:2015  
Optics and photonics – Vocabulary for telescopic systems – Part 2: Terms for binoculars, monoculars and spotting scopes

## 37.040.01 Fotografija općenito

### Međunarodna normizacija ISO/IEC

ISO 19262:2015  
Photography – Archiving Systems – Vocabulary

## 37.100.01 Grafička tehnologija općenito

### Međunarodna normizacija ISO

ISO 12647-6 AMD 1:2015  
Graphic technology – Process control for the production of half-tone colour separations, proofs and production prints – Part 6: Flexographic printing; Amendment 1

## **37.100.10 Oprema za umnožavanje**

### **Međunarodna normizacija ISO/IEC**

ISO/IEC 24711:2015

Method for the determination of ink cartridge yield for colour inkjet printers and multi-function devices that contain printer components

## **39.040.20 Satovi osim ručnih i džepnih satova**

### **Međunarodna normizacija ISO**

ISO 19235:2015

Analogue quartz clocks – Timing accuracy

## **43.040.01 Sustavi u/na cestovnim vozilima općenito**

### **Međunarodna normizacija ISO**

ISO 13775-1:2015

Thermoplastic tubing and hoses for automotive use – Part 1: Non-fuel applications

## **43.040.10 Električna i elektronička oprema**

### **Međunarodna normizacija ISO**

ISO 7637-1:2015

Road vehicles – Electrical disturbances from conduction and coupling – Part 1: Definitions and general considerations

## **43.040.15 Informatika vozila. Računalni sustavi u vozilu**

### **Europska normizacija CEN**

CEN/TR 16815:2015

CleANopen – Application profile for municipal vehicles

EN ISO 18541-4:2015

Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 4: Conformance test (ISO 18541-4:2015)

### **Međunarodna normizacija ISO**

ISO 18541-4:2015

Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 4: Conformance test

## **43.040.65 Sustavi za laštenje i brisanje stakla**

### **Međunarodna normizacija ISO**

ISO 17449:2015

Road vehicles – Safety glazing materials – Test methods for properties of electrically heated glazing

## **43.060.20 Sustavi za komprimiranje i sustavi za dovod zraka i odvod ispušnih plinova**

### **Međunarodna normizacija ISO**

ISO 17536-1:2015

Road vehicles – Aerosol separator performance test for internal combustion engines – Part 1: General

## **43.060.40 Sustavi goriva**

### **Međunarodna normizacija ISO**

ISO 15500-15:2015

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

## **43.120 Električna cestovna vozila**

### **Međunarodna normizacija ISO**

ISO 17409:2015

Electrically propelled road vehicles – Connection to an external electric power supply – Safety requirements

## **43.140 Motocikli i mopedi**

### **Međunarodna normizacija ISO**

ISO 6460-1 AMD 1:2015

Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 1: General test requirements; Amendment 1

ISO 6460-3 AMD 1:2015

Motorcycles – Measurement method for gaseous exhaust emissions and fuel consumption – Part 3: Fuel consumption measurement at a constant speed; Amendment 1

ISO 18580:2015

Motorcycles – Verification of total running resistance force during mode running on a chassis dynamometer

ISO/PAS 19695:2015

Motorcycles – Functional safety

ISO/TR 13062:2015

Electric mopeds and motorcycles – Terminology and classification

ISO 28981 AMD 1:2015

Mopeds – Methods for setting the running resistance on a chassis dynamometer; Amendment 1

## **43.150 Bicikli**

### **Međunarodna normizacija ISO**

ISO 5775-2:2015

Bicycle tyres and rims – Part 2: Rims

## **43.160 Vozila za posebne namjene**

### **Europska normizacija CEN**

CEN/TR 16815:2015

CleANopen – Application profile for municipal vehicles

## **43.180 Oprema za dijagnostiku, održavanje i ispitivanje**

### **Europska normizacija CEN**

EN ISO 18541-4:2015

Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 4: Conformance test (ISO 18541-4:2015)

## Međunarodna normizacija ISO

ISO 18541-4:2015

Road vehicles – Standardized access to automotive repair and maintenance information (RMI) – Part 4: Conformance test

## 45.060.01 Željeznička tračnička vozila općenito

### Europska normizacija CEN

EN 45545-2+A1:2015

Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components

EN 45545-5+A1:2015

Railway applications – Fire protection on railway vehicles – Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles

## 45.060.20 Vozila za tegljenje

### Europska normizacija CEN

EN 15528:2015

Railway applications – Line categories for managing the interface between load limits of vehicles and infrastructure

EN 15839+A1:2015

Railway applications – Testing for the acceptance of running characteristics of railway vehicles – Freight wagons – Testing of running safety under longitudinal compressive forces

## 47.020.10 Trupovi i njihovi sastavni elementi

### Europska normizacija CEN

EN ISO 17683:2015

Ships and marine technology – Ceramic weld backing for marine use (ISO 17683:2014)

## 47.020.20 Brodski motori i propulzijski sustavi

### Međunarodna normizacija ISO

ISO 484-1:2015

Shipbuilding – Ship screw propellers – Manufacturing tolerances – Part 1: Propellers of diameter greater than 2,50 m

ISO 484-2:2015

Shipbuilding – Ship screw propellers – Manufacturing tolerances – Part 2: Propellers of diameter between 0,80 and 2,50 m inclusive

## 47.020.70 Oprema za navigaciju i upravljanje

### Europska normizacija CENELEC

EN 61162-460:2015

Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 460: Multiple talkers and multiple listeners – Ethernet interconnection – Safety and security (IEC 61162-460:2015)

EN 61174:2015

Maritime navigation and radiocommunication equipment and systems – Electronic chart display and information system (ECDIS) – Operational and performance requirements, methods of testing and required test results (IEC 61174:2015)

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

### Međunarodna normizacija ISO

ISO 15371:2015

Ships and marine technology – Fire-extinguishing systems for protection of galley cooking equipment

## 47.060 Plovila za unutrašnji promet

### Europska normizacija CEN

EN ISO 6218:2015

Inland navigation vessels – Manually and power-operated coupling devices for pushing units and coupled vessels – Safety requirements and main dimensions (ISO 6218:2015)

## 47.080 Mala plovila

### Europska normizacija CEN

EN ISO 12217-1:2015

Small craft – Stability and buoyancy assessment and categorization – Part 1: Non-sailing boats of hull length greater than or equal to 6 m (ISO 12217-1:2015)

EN ISO 12217-2:2015

Small craft – Stability and buoyancy assessment and categorization – Part 2: Sailing boats of hull length greater than or equal to 6 m (ISO 12217-2:2015)

EN ISO 12217-3:2015

Small craft – Stability and buoyancy assessment and categorization – Part 3: Boats of hull length less than 6 m (ISO 12217-3:2015)

### Međunarodna normizacija ISO

ISO 9094:2015

Small craft – Fire protection

ISO 12217-1:2015

Small craft – Stability and buoyancy assessment and categorization – Part 1: Non-sailing boats of hull length greater than or equal to 6 m

ISO 12217-2:2015

Small craft – Stability and buoyancy assessment and categorization – Part 2: Sailing boats of hull length greater than or equal to 6 m

ISO 12217-3:2015

Small craft – Stability and buoyancy assessment and categorization – Part 3: Boats of hull length less than 6 m

ISO 21487 AMD 2:2015

Small craft – Permanently installed petrol and diesel fuel tanks; Amendment 2

## 49.020 Zrakoplovi i svemirska vozila općenito

### Europska normizacija CEN

EN 9103:2014/AC:2015

Aerospace series – Quality management systems – Variation management of key characteristics

### Međunarodna normizacija ISO

ISO 20785-3:2015

Dosimetry for exposures to cosmic radiation in civilian aircraft – Part 3: Measurements at aviation altitudes

## 49.025.20 Aluminij

### Europska normizacija CEN

- EN 2633:2015 Aerospace series – Aluminium alloy AL-P2024 – AlCu4Mg1 – T3511 – Extruded bars and sections – 1,2 mm <= De <= 160 mm with peripheral coarse grain control
- EN 2704:2015 Aerospace series – Aluminium alloy AL-P2024 – AlCu4Mg1 – T3511 – Drawn bars – De <= 75 mm
- EN 3982:2015 Aerospace series – Aluminium alloy AL-P7050 – AlZn6CuMgZr – T7451 – Plates – 6 mm < a <= 160 mm
- EN 3997:2015 Aerospace series – Aluminium alloy AL-P2024 – AlCu4Mg1 – T3 – Sheet and strip – 0,4 mm < a < 6 mm

## 49.025.40 Guma i plastika

### Europska normizacija CEN

- EN 6031:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of in-plane shear properties ( $\pm 45^\circ$  tensile test)
- EN 6032:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of the glass transition temperatures
- EN 6033:2015 Aerospace series – Carbon fibre reinforced plastics – Test method – Determination of interlaminar fracture toughness energy – Mode I – GIC
- EN 6034:2015 Aerospace series – Carbon fibre reinforced plastics – Test method – Determination of interlaminar fracture toughness energy – Mode II – GIIC
- EN 6035:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of notched and unnotched tensile strength
- EN 6036:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of notched, unnotched and filled hole compression strength
- EN 6037:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of bearing strength
- EN 6038:2015 Aerospace series – Fibre reinforced plastics – Test method – Determination of the compression strength after impact

## 49.030.99 Ostale vrste spojnih elemenata

### Međunarodna normizacija ISO

- ISO 16682:2015 Aerospace series – Terminology for clamping devices

## 49.060 Zrakoplovna električna oprema i sustavi

### Europska normizacija CEN

- EN 2591-315:2015 Aerospace series – Elements of electrical and optical connection – Test methods – Part 315: Fluid resistance
- EN 3155-027:2015 Aerospace series – Electrical contacts used in elements of connection – Part 027: Contacts, electrical, female, type A, crimp, class R – Product standard

### EN 3155-065:2015

Aerospace series – Electrical contacts used in elements of connection – Part 065: Contacts, electrical, male, type A, crimp, class S, size 8 – Product standard

### EN 3155-082:2015

Aerospace series – Electrical contacts used in elements of connection – Part 082: Contacts, electrical, female, type A, crimp, class S – Product standard

### EN 3155-083:2015

Aerospace series – Electrical contacts used in elements of connection – Part 083: Contact, electrical, female, type A, crimp, class S, size 8 – Product standard

### EN 3646-001:2015

Aerospace series – Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous – Part 001: Technical specification

### EN 3646-004:2015

Aerospace series – Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous – Part 004: Receptacle, jam-nut mounting – Product standard

### EN 3660-063:2015

Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 063: Cable outlet, style K, straight, for heat shrinkable boot, shielded, sealed, self-locking for EN 3645 – Product standard

### EN 4165-001:2015

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 001: Technical specification

### EN 4165-026:2015

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 026: Accessories for single module connector – Product standard

### EN 4165-027:2015

Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 027: Rack and panel rear mounted plug for 2 and 4 modules, series 3 – Product standard

### EN 4644-012:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 012: Receptacle, size 1, class A, C and E – Product standard

### EN 4644-014:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 014: Receptacle, size 1, with ground block, class B and F – Product standard

### EN 4644-021:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 021: Plug, size 2, without mounting holes, class A, C and E – Product standard

### EN 4644-022:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 022: Plug, size 2, with mounting holes, class A, C and E – Product standard

### EN 4644-023:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 023: Plug, size 2, with ground block, class B and F – Product standard

### EN 4644-024:2015

Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 024: Receptacle size 2, class A, C and E – Product standard

- EN 4644-025:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 025: Receptacle, size 2, with flange, class A, C and E – Product standard
- EN 4644-026:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 026: Receptacle size 2 with ground block, class B and F – Product standard
- EN 4644-201:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 201: Locking and polarizing hardware – Product standard
- EN 4652-210:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 210: Type 2, TNC interface – Clamp nut assembly version – Straight plug – Product standard
- EN 4652-213:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 213: Type 2, TNC interface – Clamp nut assembly version – Bulkhead receptacle – Product standard
- EN 4652-311:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 311: Type 3, N interface – Clamp nut assembly version – Right angle plug – Product standard
- EN 4652-312:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 312: Type 3, N interface – Clamp nut assembly version – Square flange receptacle – Product standard
- EN 4652-313:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 313: Type 3, N interface – Clamp nut assembly version – Bulkhead receptacle – Product standard
- EN 4652-410:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 410: Type 4, C interface – Clamp nut assembly version – Straight plug – Product standard
- EN 4652-411:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 411: Type 4, C interface – Clamp nut assembly version – Right angle plug – Product standard
- EN 4652-412:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 412: Type 4, C interface – Clamp nut assembly version – Square flange receptacle – Product standard
- EN 4652-413:2015  
Aerospace series – Connectors, coaxial, radio frequency – Part 413: Type 4, C interface – Clamp nut assembly version – Bulkhead receptacle – Product standard
- EN 4644-021:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 021: Plug, size 2, without mounting holes, class A, C and E – Product standard
- EN 4644-022:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 022: Plug, size 2, with mounting holes, class A, C and E – Product standard
- EN 4644-023:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 023: Plug, size 2, with ground block, class B and F – Product standard
- EN 4644-024:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 024: Receptacle size 2, class A, C and E – Product standard
- EN 4644-025:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 025: Receptacle, size 2, with flange, class A, C and E – Product standard
- EN 4644-026:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 026: Receptacle size 2 with ground block, class B and F – Product standard
- EN 4644-201:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 201: Locking and polarizing hardware – Product standard

## 49.100 Zemaljska služba i oprema za održavanje

### Međunarodna normizacija ISO

- ISO 8267-1:2015  
Aircraft – Tow bar attachment fittings interface requirements – Part 1: Main line aircraft
- ISO 8267-2:2015  
Aircraft – Tow bar attachment fittings interface requirements – Part 2: Regional aircraft

## 49.140 Svetmirski sustavi i operacije

### Međunarodna normizacija ISO

- ISO 12208:2015  
Space systems – Space environment (natural and artificial) – Observed proton fluences over long duration at GEO and guidelines for selection of confidence level in statistical model of solar proton fluences
- ISO 16679:2015  
Space systems – Relative motion analysis elements after LV/SC separation
- ISO 16699:2015  
Space systems – Disposal of orbital launch stages
- ISO 17689:2015  
Space systems – Interface control documents between ground systems, ground support equipment and launch vehicle with payload
- ISO 17761:2015  
Space environment (natural and artificial) – Model of high energy radiation at low altitudes (300 km to 600 km)

## 49.090 Oprema i instrumenti u zrakoplovu

### Europska normizacija CEN

- EN 2591-315:2015  
Aerospace series – Elements of electrical and optical connection – Test methods – Part 315: Fluid resistance
- EN 4644-012:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 012: Receptacle, size 1, class A, C and E – Product standard
- EN 4644-014:2015  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 014: Receptacle, size 1, with ground block, class B and F – Product standard

- ISO 18202:2015  
Space data and information transfer systems – Mission operations message abstraction layer
- ISO 18238:2015  
Space systems – Closed loop problem solving management
- ISO 20618:2015  
Space data and information transfer systems – Spacecraft onboard interface services – Device enumeration service
- ISO/TR 18146:2015  
Space systems – Space debris mitigation design and operation guidelines for spacecraft
- ISO 22642:2015  
Space data and information transfer systems – TC synchronization and channel coding

## 53.020.20 Dizalice

### Međunarodna normizacija ISO

- ISO 15442 AMD 1:2015  
Cranes – Safety requirements for loader cranes; Amendment 1

## 53.020.30 Pribor za opremu za dizanje

### Međunarodna normizacija ISO

- ISO 3266 AMD 1:2015  
Forged steel eyebolts grade 4 for general lifting purposes; Amendment 1

## 53.040.10 Prijenosne trake

### Europska normizacija CEN

- EN 14973:2015  
Conveyor belts for use in underground installations – Electrical and flammability safety requirements

## 53.040.20 Sastavni dijelovi za prijenosne trake

### Europska normizacija CEN

- EN ISO 283:2015  
Textile conveyor belts – Full thickness tensile strength, elongation at break and elongation at the reference load – Test method (ISO 283:2015)
- EN ISO 7622-2:2015  
Steel cord conveyor belts – Longitudinal traction test – Part 2: Measurement of tensile strength (ISO 7622-2:2015)
- EN ISO 7623:2015  
Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment (ISO 7623:2015)

### Međunarodna normizacija ISO

- ISO 283:2015  
Textile conveyor belts – Full thickness tensile strength, elongation at break and elongation at the reference load – Test method
- ISO 7622-2:2015  
Steel cord conveyor belts – Longitudinal traction test – Part 2: Measurement of tensile strength
- ISO 7623:2015  
Steel cord conveyor belts – Cord-to-coating bond test – Initial test and after thermal treatment

## 53.060 Industrijski prijevozni sustavi

### Europska normizacija CEN

- EN ISO 3691-5:2015  
Industrial trucks – Safety requirements and verification – Part 5: Pedestrian-propelled trucks (ISO 3691-5:2014)
- EN ISO 3691-6:2015  
Industrial trucks – Safety requirements and verification – Part 6: Burden and personnel carriers (ISO 3691-6:2013)
- EN 1755:2015  
Industrial Trucks – Safety requirements and verification – Supplementary requirements for operation in potentially explosive atmospheres

### Međunarodna normizacija ISO

- ISO 5053-1:2015  
Industrial trucks – Terminology and classification – Part 1: Types of industrial trucks
- ISO 10896-4:2015  
Rough-terrain trucks – Safety requirements and verification – Part 4: Additional requirements for variable-reach trucks handling freely suspended loads
- ISO 11525-2:2015  
Rough-terrain trucks – User requirements – Part 2: Slewing variable-reach trucks

## 53.100 Strojevi za zemljane rade

### Međunarodna normizacija ISO

- ISO 10261 AMD 1:2015  
Earth-moving machinery – Product identification numbering system; Amendment 1

## 55.020 Ambalaža, pakiranje i distribucija robe općenito

### Europska normizacija CEN

- EN ISO 8317:2015  
Child-resistant packaging – Requirements and testing procedures for reclosable packages (ISO 8317:2015)

### CENELEC

- EN 61340-5-3:2015  
Electrostatics – Part 5-3: Protection of electronic devices from electrostatic phenomena – Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices (IEC 61340-5-3:2015)

### Međunarodna normizacija ISO

- ISO 780:2015  
Packaging – Distribution packaging – Graphical symbols for handling and storage of packages
- ISO 8317:2015  
Child-resistant packaging – Requirements and testing procedures for reclosable packages
- ISO 21067-2:2015  
Packaging – Vocabulary – Part 2: Packaging and the environment terms

## **55.040 Materijali i pribor za ambalažu i pakiranje**

### **Europska normizacija CEN**

EN ISO 15378:2015

Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP) (ISO 15378:2015)

### **Međunarodna normizacija ISO**

ISO 15378:2015

Primary packaging materials for medicinal products – Particular requirements for the application of ISO 9001:2008, with reference to Good Manufacturing Practice (GMP)

## **55.100 Boce. Vrčevi. Lonci**

### **Međunarodna normizacija ISO**

ISO 10718:2015

Cork stoppers – Characterization of a low-in-germs stopper, through the enumeration of colony-forming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium

## **55.180.10 Kontejneri opće namjene**

### **Međunarodna normizacija ISO**

ISO 18185-3:2015

Freight containers – Electronic seals – Part 3: Environmental characteristics

## **55.230 Strojevi za distribuciju i prodaju**

### **Europska normizacija CENELEC**

EN 50597:2015

Energy Consumption of Vending Machines

### **Međunarodna normizacija IEC**

IEC 60335-2-75 AMD 1:2015

Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines; Amendment 1

IEC 60335-2-75 Edition 3.1:2015

Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines

## **59.060.01 Tekstilna vlakna općenito**

### **Europska normizacija CEN**

EN 16711-1:2015

Textiles – Determination of metal content – Part 1: Determination of metals using microwave digestion

EN 16711-2:2015

Textiles – Determination of metal content – Part 2: Determination of metals extracted by acidic artificial perspiration solution

## **59.060.10 Prirodna vlakna**

### **Međunarodna normizacija ISO**

ISO 137:2015

Wool – Determination of fibre diameter – Projection microscope method

## **59.080.01 Tekstili općenito**

### **Međunarodna normizacija ISO**

ISO 18074:2015

Textiles – Identification of some animal fibres by DNA analysis method – Cashmere, wool, yak and their blends

## **59.080.60 Tekstilne podne obloge**

### **Europska normizacija CEN**

EN 1269:2015

Textile floor coverings – Assessment of impregnations in needleful floor coverings by means of a soiling test

## **59.080.70 Geotekstili**

### **Međunarodna normizacija ISO**

ISO 18325:2015

Geosynthetics – Test method for the determination of water discharge capacity for prefabricated vertical drains

## **59.100.10 Tekstilno staklo**

### **Međunarodna normizacija ISO**

ISO 2078 AMD 1:2015

Textile glass – Yarns – Designation; Amendment 1

ISO 15039 AMD 1:2015

Textile-glass rovings – Determination of solubility of size; Amendment 1

## **59.120.10 Strojevi za predenje, pletenje i tkanje**

### **Međunarodna normizacija ISO**

ISO 18600:2015

Textile machinery and accessories – Web roller cards – Terms and definitions

## **59.140.30 Koža i krvno**

### **Europska normizacija CEN**

EN 16484:2015

Leather – Requirements for the determination of the origin of leather production

EN ISO 18219:2015

Leather – Determination of chlorinated hydrocarbons in leather – Chromatographic method for short-chain chlorinated paraffins (SCCP) (ISO 18219:2015)

## **65.060.01 Poljoprivredni strojevi i oprema općenito**

### **Europska normizacija CEN**

EN ISO 4254-1:2015

Agricultural machinery – Safety – Part 1: General requirements (ISO 4254-1:2013)

### **Međunarodna normizacija ISO**

ISO 7216:2015

Agricultural and forestry tractors – Measurement of noise emitted when in motion

## **65.060.10 Poljoprivredni traktori i priključna vozila**

**Europska normizacija**  
CEN

EN 15694+A1:2015  
Agricultural and forestry tractors – Passenger seat – Requirements and test procedures

## **65.060.35 Oprema za navodnjavanje i isušivanje**

**Međunarodna normizacija**  
ISO

ISO 13460-1:2015  
Agricultural irrigation equipment – Plastics saddles – Part 1: Polyethylene pressure pipes

ISO 18471:2015  
Agricultural irrigation equipment – Filters – Verification of filtration grade

## **65.060.40 Oprema za njegu biljaka**

**Međunarodna normizacija**  
ISO

ISO 22401:2015  
Equipment for crop protection – Method for measurement of potential spray drift from horizontal boom sprayers by the use of a test bench

## **65.060.70 Oprema za vrtlarstvo**

**Europska normizacija**  
CENELEC

EN 62841-1:2015/AC:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements

**Međunarodna normizacija**  
IEC

IEC 62841-1:2014/COR2:2015  
Electric motor-operated hand-held, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements; Corrigendum 2

IEC 62841-3-9:2014/COR1:2015  
Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 1

## **65.060.80 Oprema za šumarstvo**

**Europska normizacija**  
CENELEC

EN 62841-1:2015/AC:2015  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements

**Međunarodna normizacija**  
IEC

IEC 62841-1:2014/COR2:2015  
Electric motor-operated hand-held, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements; Corrigendum 2

IEC 62841-3-9:2014/COR1:2015  
Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-9: Particular requirements for transportable mitre saws; Corrigendum 1

## **65.120 Hrana za životinje**

**Međunarodna normizacija**  
ISO

ISO 5985 AMD 1:2015  
Animal feeding stuffs – Determination of ash insoluble in hydrochloric acid; Amendment 1

## **67.050 Opće metode ispitivanja i analize hrane**

**Međunarodna normizacija**  
ISO

ISO 20633:2015  
Infant formula and adult nutritionals – Determination of vitamin E and vitamin A by normal phase high performance liquid chromatography

ISO 20634:2015  
Infant formula and adult nutritionals – Determination of vitamin B12 by reversed phase high performance liquid chromatography (RP-HPLC)

ISO 20637:2015  
Infant formula and adult nutritionals – Determination of myo-inositol by liquid chromatography and pulsed amperometry

ISO 20638:2015  
Infant formula – Determination of nucleotides by liquid chromatography

ISO 20639:2015  
Infant formula and adult nutritionals – Determination of pantothenic acid by ultra high performance liquid chromatography and tandem mass spectrometry method (UHPLC-MS/MS)

ISO 20647:2015  
Infant formula and adult nutritionals – Determination of total iodine – Inductively coupled plasma mass spectrometry (ICP-MS)

ISO 20649:2015  
Infant formula and adult nutritionals – Determination of chromium, selenium and molybdenum – Inductively coupled plasma mass spectrometry (ICP-MS)

ISO/TR 17622:2015  
Molecular biomarker analysis – SSR analysis of sunflower

## **67.060 Žitarice, mahunarke i proizvodi od žitarica i mahunarka**

**Europska normizacija**  
CEN

EN ISO 21415-2:2015  
Wheat and wheat flour – Gluten content – Part 2: Determination of wet gluten and gluten index by mechanical means (ISO 21415-2:2015)

**Međunarodna normizacija**  
ISO

ISO 21415-2:2015  
Wheat and wheat flour – Gluten content – Part 2: Determination of wet gluten and gluten index by mechanical means

## **67.100.10 Mlijeko i obrađeni mlijekočni proizvodi**

**Međunarodna normizacija**  
ISO

ISO 16958:2015  
Milk, milk products, infant formula and adult nutritionals – Determination of fatty acids composition – Capillary gas chromatographic method

## **67.120.30 Riba i riblji proizvodi**

### **Europska normizacija CEN**

CWA 16960:2015  
Batch-based Calculation of Sustainability Impact for Captured Fish Products

### **Međunarodna normizacija ISO**

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

## **67.200.20 Uljarice**

### **Europska normizacija CEN**

EN ISO 22630:2015  
Oilseed meals – Determination of oil content – Rapid extraction method (ISO 22630:2015)

### **Međunarodna normizacija ISO**

ISO 734:2015  
Oilseed meals – Determination of oil content – Extraction method with hexane (or light petroleum)

ISO 22630:2015  
Oilseed meals – Determination of oil content – Rapid extraction method

## **71.040.20 Laboratorijsko posuđe i odgovarajuća aparatura**

### **Međunarodna normizacija ISO**

IWA 15:2015  
Specification and method for the determination of performance of automated liquid handling systems

## **71.040.30 Kemijski reagensi**

### **Međunarodna normizacija ISO**

ISO Guide 31:2015  
Reference materials – Contents of certificates, labels and accompanying documentation

## **71.040.40 Kemijska analiza**

### **Međunarodna normizacija ISO**

ISO 11775:2015  
Surface chemical analysis – Scanning-probe microscopy – Determination of cantilever normal spring constants

ISO 19830:2015  
Surface chemical analysis – Electron spectroscopies – Minimum reporting requirements for peak fitting in X-ray photoelectron spectroscopy

## **71.100.10 Materijali za proizvodnju aluminija**

### **Međunarodna normizacija ISO**

ISO 19950:2015  
Aluminium oxide primarily used for the production of aluminium – Determination of alpha alumina content – Method using X-ray diffraction net peak areas

ISO 23201:2015

Aluminium oxide primarily used for production of aluminium – Determination of trace elements – Wavelength dispersive X-ray fluorescence spectrometric method

## **71.100.70 Kozmetika. Toaletne potrepštine**

### **Međunarodna normizacija ISO**

ISO 18416:2015  
Cosmetics – Microbiology – Detection of Candida albicans

ISO 21150:2015  
Cosmetics – Microbiology – Detection of Escherichia coli

ISO 22717:2015  
Cosmetics – Microbiology – Detection of Pseudomonas aeruginosa

ISO 22718:2015  
Cosmetics – Microbiology – Detection of Staphylococcus aureus

## **73.020 Rudarstvo i vađenje kamena**

### **Međunarodna normizacija ISO**

ISO 18871:2015  
Method of determining coalbed methane content

ISO 18875:2015  
Coalbed methane exploration and development – Terms and definitions

## **73.040 Ugljen**

### **Međunarodna normizacija ISO**

ISO 1953:2015  
Hard coal – Size analysis by sieving

ISO 5074:2015  
Hard coal – Determination of Hardgrove grindability index

## **73.060.10 Željezove rude**

### **Međunarodna normizacija ISO**

ISO 2597-2:2015  
Iron ores – Determination of total iron content – Part 2: Titrimetric methods after titanium(III) chloride reduction

ISO/TR 16043:2015  
Iron ores – Determination of chlorine content – X-ray fluorescence spectrometric method

## **73.060.99 Ostale rude crnih metala**

### **Međunarodna normizacija ISO**

ISO 9599:2015  
Copper, lead, zinc and nickel sulfide concentrates – Determination of hygroscopic moisture content of the analysis sample – Gravimetric method

## **75.060 Prirodni plin**

### **Međunarodna normizacija ISO**

ISO/TR 12748:2015  
Natural Gas – Wet gas flow measurement in natural gas operations

## 75.120 Hidraulične tekućine

### Međunarodna normizacija ISO

ISO 4263-3:2015  
Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids using the TOST test – Part 3: Anhydrous procedure for synthetic hydraulic fluids

## 75.160.10 Kruta goriva

### Europska normizacija CEN

EN ISO 17829:2015  
Solid biofuels – Determination of length and diameter of pellets (ISO 17829:2015)  
EN ISO 18122:2015  
Solid biofuels – Determination of ash content (ISO 18122:2015)  
EN ISO 18123:2015  
Solid biofuels – Determination of the content of volatile matter (ISO 18123:2015)

### Međunarodna normizacija ISO

ISO 17829:2015  
Solid Biofuels – Determination of length and diameter of pellets  
ISO 18122:2015  
Solid biofuels – Determination of ash content  
ISO 18123:2015  
Solid biofuels – Determination of the content of volatile matter

## 75.180.10 Oprema za iskorištavanje i vađenje

### Europska normizacija CEN

EN ISO 19901-1:2015  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 1: Metocean design and operating considerations (ISO 19901-1:2015)

### Međunarodna normizacija ISO

ISO 19901-1:2015  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 1: Metocean design and operating considerations

## 75.180.30 Volumetrijska oprema i mjerena

### Međunarodna normizacija ISO

ISO/TR 12748:2015  
Natural Gas – Wet gas flow measurement in natural gas operations

## 75.200 Oprema za rukovanje naftnim proizvodima i prirodnim plinom

### Međunarodna normizacija ISO

ISO 17292:2015  
Metal ball valves for petroleum, petrochemical and allied industries

## 77.040.10 Mehaničko ispitivanje metala

### Međunarodna normizacija ISO

ISO 6892-4:2015  
Metallic materials – Tensile testing – Part 4: Method of test in liquid helium  
ISO 11531:2015  
Metallic materials – Sheet and strip – Earing test

## 77.060 Korozija metala

### Međunarodna normizacija ISO

ISO 16540:2015  
Corrosion of metals and alloys – Methodology for determining the resistance of metals to stress corrosion cracking using the four-point bend method  
ISO 18070:2015  
Corrosion of metals and alloys – Crevice corrosion formers with disc springs for flat specimens or tubes made from stainless steel  
ISO 18089:2015  
Corrosion of metals and alloys – Determination of the critical crevice temperature (CCT) for stainless steels under potentiostatic control

## 77.140.40 Čelici s posebnim magnetnim svojstvima

### Europska normizacija CEN

EN 10303:2015  
Thin magnetic steel strip and sheet for use at medium frequencies

## 77.140.50 Proizvodi i poluproizvodi od plosnatog čelika

### Europska normizacija CEN

EN 10106:2015  
Cold rolled non-oriented electrical steel strip and sheet delivered in the fully processed state  
EN 10303:2015  
Thin magnetic steel strip and sheet for use at medium frequencies

## 77.140.80 Odljevci od željeznog lijeva i čelični odljevci

### Međunarodna normizacija ISO

ISO 13520:2015  
Determination of ferrite content in austenitic stainless steel castings  
ISO 13521:2015  
Austenitic manganese steel castings  
ISO 16468:2015  
Investment castings (steel, nickel alloys and cobalt alloys) – General technical requirements

## **79.060.01 Ploče na osnovi drva općenito**

### **Europska normizacija CEN**

- EN 16718:2015  
Wood and wood based products – Dosage of the total organic carbon (TOC) in wood and wood based products
- EN ISO 12460-3:2015  
Wood-based panels – Determination of formaldehyde release – Part 3: Gas analysis method (ISO 12460-3:2015)

### **Međunarodna normizacija ISO**

- ISO 12460-3:2015  
Wood-based panels – Determination of formaldehyde release – Part 3: Gas analysis method
- ISO 12460-5:2015  
Wood-based panels – Determination of formaldehyde release – Part 5: Extraction method (called the perforator method)

## **79.100 Pluto i proizvodi od pluta**

### **Međunarodna normizacija ISO**

- ISO 10718:2015  
Cork stoppers – Characterization of a low-in-germs stopper, through the enumeration of colony-forming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium

## **79.120.10 Strojevi za obradu drva**

### **Europska normizacija CEN**

- EN 12779:2015  
Safety of woodworking machines – Chip and dust extraction systems with fixed installation – Safety requirements

## **81.060.10 Sirovine**

### **Europska normizacija CEN**

- EN 15991:2015  
Testing of ceramic and basic materials – Direct determination of mass fractions of impurities in powders and granules of silicon carbide by inductively coupled plasma optical emission spectrometry (ICP OES) with electrothermal vaporisation (ETV)

## **81.060.30 Tehnička keramika**

### **Međunarodna normizacija ISO**

- ISO 17170:2015  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for spherical indentation of porous ceramics
- ISO 18591:2015  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of compressive strength of ceramic granules

## **83.040.10 Lateks i sirova guma**

### **Međunarodna normizacija ISO**

- ISO 705:2015  
Rubber latex – Determination of density between 5 degrees C and 40 degrees C
- ISO 19050:2015  
Rubber, raw, vulcanised – Determination of metal content by ICP-OES

## **83.060 Guma**

### **Međunarodna normizacija ISO**

- ISO 289-3:2015  
Rubber, unvulcanized – Determinations using a shearing-disc viscometer – Part 3: Determination of the Delta Mooney value for non-pigmented, oil-extended emulsion-polymerized SBR

## **83.080.01 Plastika općenito**

### **Europska normizacija CEN**

- EN ISO 16012:2015  
Plastics – Determination of linear dimensions of test specimens (ISO 16012:2015)

### **Međunarodna normizacija ISO**

- ISO 6721-10:2015  
Plastics – Determination of dynamic mechanical properties – Part 10: Complex shear viscosity using a parallel-plate oscillatory rheometer

- ISO 20200:2015  
Plastics – Determination of the degree of disintegration of plastic materials under simulated composting conditions in a laboratory-scale test

## **83.080.20 Plastomerni materijali**

### **Europska normizacija CEN**

- EN ISO 19062-1:2015  
Plastics – Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 19062-1:2015)

- EN ISO 19063-1:2015  
Plastics – Impact-resistant polystyrene (PS-I) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 19063-1:2015)

- EN ISO 19064-1:2015  
Plastics – Styrene/acrylonitrile (SAN) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 19064-1:2015)

### **Međunarodna normizacija ISO**

- ISO 18263-2:2015  
Plastics – Mixtures of polypropylene (PP) and polyethylene (PE) recyclate derived from PP and PE used for flexible and rigid consumer packaging – Part 2: Preparation of test specimens and determination of properties

- ISO 19062-1:2015  
Plastics – Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials – Part 1: Designation system and basis for specifications

## **83.140.20 Laminatne ploče**

### **Međunarodna normizacija ISO**

- ISO 4586-1:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates) – Part 1: Introduction and general information

- ISO 4586-2:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates) – Part 2: Determination of properties

- ISO 4586-3:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates
- ISO 4586-4:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater
- ISO 4586-5:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates
- ISO 4586-6:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 6: Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater
- ISO 4586-7:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 7: Classification and specifications for design laminates
- ISO 4586-8:2015  
High-pressure decorative laminates (HPL, HPDL) – Sheets based on thermosetting resins (Usually called Laminates)  
– Part 8: Classification and specifications for alternative core laminates

## 83.140.40 Crijeva

### Međunarodna normizacija ISO

- ISO 4642-1:2015  
Rubber and plastics hoses, non-collapsible, for fire-fighting service – Part 1: Semi-rigid hoses for fixed systems
- ISO 4642-2:2015  
Rubber and plastics hoses, non-collapsible, for fire-fighting service – Part 2: Semi-rigid hoses (and hose assemblies) for pumps and vehicles

## 83.140.99 Ostali gumeni i plastični proizvodi

### Međunarodna normizacija ISO

- ISO 6123-2:2015  
Rubber or plastics covered rollers – Specifications – Part 2: Surface characteristics

## 83.160.10 Gume za cestovna vozila

### Međunarodna normizacija ISO

- ISO 4000-1:2015  
Passenger car tyres and rims – Part 1: Tyres (metric series)
- ISO 10231 AMD 1:2015  
Motorcycle tyres – Test methods for verifying tyre capabilities; Amendment 1

## 85.040 Celuloza

### Međunarodna normizacija ISO

- ISO/TR 10688:2015  
Paper, board and pulps – Basic terms and equations for optical properties
- ISO 15360-2:2015  
Recycled pulps – Estimation of Stickies and Plastics – Part 2: Image analysis method

## 85.060 Papir i karton

### Međunarodna normizacija ISO

- ISO 5631-1:2015  
Paper and board – Determination of colour by diffuse reflectance – Part 1: Indoor daylight conditions (C/2 degrees)
- ISO 5631-2:2015  
Paper and board – Determination of colour by diffuse reflectance – Part 2: Outdoor daylight conditions (D65/10 degrees)
- ISO 5631-3:2015  
Paper and board – Determination of colour by diffuse reflectance – Part 3: Indoor illumination conditions (D50/2 degrees)
- ISO/TR 10688:2015  
Paper, board and pulps – Basic terms and equations for optical properties

## 87.060.10 Pigmenti i punila

### Međunarodna normizacija ISO

- ISO 18451-1:2015  
Pigments, dyestuffs and extenders – Terminology – Part 1: General terms
- ISO 18451-2:2015  
Pigments, dyestuffs and extenders – Terminology – Part 2: Classification of colouring materials according to colouristic and chemical aspects

## 91.060.40 Dimnjaci, okna, kanali

### Europska normizacija CEN

- EN 13084-6:2015  
Free-standing chimneys – Part 6: Steel liners – Design and execution

## 91.060.50 Vrata i prozori

### Europska normizacija CEN

- EN 16654:2015  
Child protective products – Consumer fitted finger protection devices for doors – Safety requirements and test methods

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

- EN 16622:2015  
Silica-calcium fume for concrete – Definitions, requirements and conformity criteria

## 91.100.50 Veziva. Materijali za brtvljenje

### Međunarodna normizacija ISO

- ISO 19861:2015  
Buildings and civil engineering works – Sealants – Determination of curing behaviour
- ISO 19862:2015  
Buildings and civil engineering works – Sealants – Durability to extension compression cycling under accelerated weathering

## **91.120.01 Zaštita zgrada i zaštita u zgradama općenito**

**Europska normizacija**  
**CEN**

EN 16508:2015  
Temporary works equipment – Encapsulation constructions  
– Performance requirements and general design

## **91.120.10 Toplinska izolacija**

**Međunarodna normizacija**  
**ISO**

ISO 6781-3:2015  
Performance of buildings – Detection of heat, air and moisture irregularities in buildings by infrared methods  
– Part 3: Qualifications of equipment operators, data analysts and report writers

## **91.120.20 Akustika u zgradama. Zvučna izolacija**

**Međunarodna normizacija**  
**ISO**

ISO 16283-2:2015  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 2: Impact sound insulation

## **91.120.40 Zaštita od groma**

**Europska normizacija**  
**CENELEC**

EN 62858:2015  
Lightning density based on lightning location systems (LLS)  
– General principles (IEC 62858:2015)

## **91.140.30 Sustavi prozračivanja i klimatizacije**

**Europska normizacija**  
**CEN**

EN 12309-2:2015/AC:2015  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW – Part 2: Safety

## **91.140.40 Sustavi opskrbe plinom**

**Europska normizacija**  
**CEN**

EN 12405-3:2015  
Gas meters – Conversion devices – Part 3: Flow computer

EN 14459:2015  
Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Methods for classification and assessment

## **91.140.50 Sustavi opskrbe električnom energijom**

**Međunarodna normizacija**  
**ISO**

ISO/IEC 30129:2015  
Information technology – Telecommunications bonding networks for buildings and other structures

**IEC**

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

ISO/IEC 30129:2015  
Information technology – Telecommunications bonding networks for buildings and other structures

## **91.140.70 Sanitarne instalacije**

**Europska normizacija**  
**CEN**

EN 15719:2015  
Sanitary appliances – Baths made from impact modified coextruded ABS/acrylic sheets – Requirements and test methods

## **91.200 Građevinska tehnologija**

**Europska normizacija**  
**CEN**

EN 16508:2015  
Temporary works equipment – Encapsulation constructions  
– Performance requirements and general design

## **93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi**

**Međunarodna normizacija**  
**ISO**

ISO 17892-3:2015  
Geotechnical investigation and testing – Laboratory testing of soil – Part 3: Determination of particle density

## **93.080.10 Gradnja cesta**

**Europska normizacija**  
**CEN**

EN 13020:2015  
Road surface treatment machines – Safety requirements

## **93.080.20 Materijali za gradnju cesta**

**Europska normizacija**  
**CEN**

EN 14227-15:2015  
Hydraulically bound mixtures – Specifications – Part 15: Hydraulically stabilized soils

EN 13924-1:2015  
Bitumen and bituminous binders – Specification framework for special paving grade bitumen – Part 1: Hard paving grade bitumens

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

**Međunarodna normizacija**  
**IEC**

IEC 60335-2-25 AMD 2:2015  
Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens; Amendment 2

IEC 60335-2-25 Edition 6.2:2015  
Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens

## **97.040.30 Kućanski rashladni uređaji**

**Europska normizacija**  
**CENELEC**

EN 50597:2015  
Energy Consumption of Vending Machines

## Međunarodna normizacija IEC

IEC 60335-2-89 AMD 2:2015  
Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor; Amendment 2

IEC 60335-2-89 Edition 2.2:2015  
Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor

## 97.040.40 Strojevi za pranje posuđa

### Međunarodna normizacija IEC

IEC 60436:2015  
Electric dishwashers for household use – Methods for measuring the performance

IEC 61770 AMD 1:2015  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets; Amendment 1

IEC 61770 Edition 2.1:2015  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets

## 97.060 Praonički uređaji

### Europska normizacija CENELEC

EN 50229:2015  
Electric clothes washer-dryers for household use – Methods of measuring the performance

### Međunarodna normizacija ISO

ISO/IEC TR 18781:2015  
Identification cards – Laundry testing of ID Cards

### IEC

IEC 60335-2-11 AMD 2:2015  
Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers; Amendment 2

IEC 60335-2-11 Edition 7.2:2015  
Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers

IEC 61770 AMD 1:2015  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets; Amendment 1

IEC 61770 Edition 2.1:2015  
Electric appliances connected to the water mains – Avoidance of backsiphonage and failure of hose-sets

IEC/TR 62617:2015  
Home laundry appliances – Uncertainty reporting of measurements

ISO/IEC TR 18781:2015  
Identification cards – Laundry testing of ID Cards

## 97.080 Uređaji za čišćenje podova

### Europska normizacija CENELEC

EN 60335-2-54:2008/A1:2015  
Household and similar electrical appliances – Safety – Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam (IEC 60335-2-54:2008/A1:2015)

## 97.100.20 Plinski grijaci

### Europska normizacija CEN

EN 14459:2015  
Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Methods for classification and assessment

## 97.130.20 Trgovački rashladni uređaji

### Europska normizacija CEN

EN ISO 23953-1:2015  
Oilseed meals – Determination of oil content – Rapid extraction method (ISO 22630:2015)

EN ISO 23953-2:2015  
Refrigerated display cabinets – Part 2: Classification, requirements and test conditions (ISO 23953-2:2015)

### Međunarodna normizacija ISO

ISO 23953-1:2015  
Refrigerated display cabinets – Part 1: Vocabulary

ISO 23953-2:2015  
Refrigerated display cabinets – Part 2: Classification, requirements and test conditions

## 97.140 Namještaj

### Europska normizacija CEN

EN 581-2:2015  
Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for seating

EN 1729-1:2015  
Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions

### Međunarodna normizacija ISO

ISO 9221-1:2015  
Furniture – Children's high chairs – Part 1: Safety requirements

ISO 9221-2:2015  
Furniture – Children's high chairs – Part 2: Test methods

## 97.145 Ljestve

### Europska normizacija CEN

EN 131-1:2015  
Ladders – Part 1: Terms, types, functional sizes

## 97.150 Netekstilni podni prekrivači

### Međunarodna normizacija ISO

ISO 16905:2015  
Resilient floor coverings – Specification for rubber floor covering – Tile/Plank

## **97.170 Oprema za njegu tijela**

### **Međunarodna normizacija IEC**

IEC 60335-2-8 AMD 1:2015  
Household and similar electrical appliances – Safety – Part 2-8:  
Particular requirements for shavers, hair clippers and similar  
appliances; Amendment 1

IEC 60335-2-8 Edition 6.1:2015  
Household and similar electrical appliances – Safety – Part 2-8:  
Particular requirements for shavers, hair clippers and similar  
appliances

## **97.190 Oprema za djecu**

### **Europska normizacija CEN**

EN 16654:2015  
Child protective products – Consumer fitted finger protection  
devices for doors – Safety requirements and test methods

## **97.200.30 Oprema za kampiranje i kampove**

### **Europska normizacija CEN**

EN 581-2:2015  
Outdoor furniture – Seating and tables for camping, domestic  
and contract use – Part 2: Mechanical safety requirements  
and test methods for seating

## **97.200.50 Igračke**

### **Europska normizacija CEN**

CEN/TR 15371-1:2015  
Safety of toys – Interpretations – Part 1: Replies to requests  
for interpretation of EN 71-1, EN 71-2, EN 71-8 and  
EN 71-14

CEN/TR 15371-2:2015  
Safety of toys – Interpretations – Part 2: Replies to requests for  
interpretation of the chemical standards in the EN 71-series

### **Međunarodna normizacija ISO**

ISO 8124-7:2015  
Safety of toys – Part 7: Requirements and test methods for  
finger paints

## **97.220.40 Oprema za sportove na otvorenom i sportove na vodi**

### **Europska normizacija CEN**

EN 568:2015  
Mountaineering equipment – Ice anchors – Safety  
requirements and test methods

EN 926-1:2015  
Paragliding equipment – Paragliders – Part 1: Requirements  
and test methods for structural strength

EN 12277:2015  
Mountaineering equipment – Harnesses – Safety requirements  
and test methods

EN 12491:2015  
Paragliding equipment – Emergency parachutes – Safety  
requirements and test methods+