

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

2/2015    travanj, 2015.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrtu hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

Tko u popisima normativnih dokumenata koji su objavljeni u ovom Oglasniku otkrije koju grešku, koja može voditi do krive primjene, moli se da o tome neodložno obavijesti Hrvatski zavod za norme, kako bi se mogli otkloniti uočeni propusti.

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

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

Hrvatske norme mogu nastati na ova četiri načina:

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

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

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

HRN ISO 776:2015 en pr  
Pulpe – Određivanje pepela netopivog u kiselini (ISO 776:2011)  
Pulps – Determination of acid-insoluble ash (ISO 776:2011)

HRN ISO 2469:2015 en pr  
Papir, karton i pulpe – Mjerenje faktora sjajnosti difuznog svjetla (faktor difuzne reflektancije) (ISO 2469:2014)  
Paper, board and pulps – Measurement of diffuse radiance factor (diffuse reflectance factor) (ISO 2469:2014)

HRN ISO 2493-1:2015 en pr  
Papir i karton – Određivanje otpornosti prema savijanju – 1. dio: Jednolika deformacija (ISO 2493-1:2010)  
Paper and board – Determination of bending resistance – Part 1: Constant rate of deflection (ISO 2493-1:2010)

HRN ISO 2493-2:2015 en pr  
Papir i karton – Određivanje otpornosti prema savijanju – 2. dio: Taberova vrsta uređaja (ISO 2493-2:2011)  
Paper and board – Determination of bending resistance – Part 2: Taber-type tester (ISO 2493-2:2011)

HRN ISO 3781:2015 en pr  
Papir i karton – Određivanje vlačne čvrstoće nakon uranjanja u vodu (ISO 3781:2011)  
Paper and board – Determination of tensile strength after immersion in water (ISO 3781:2011)

HRN ISO 5628:2015 en pr  
Papir i karton – Određivanje krutosti – Opća načela za metode dvije točke, tri točke i četiri točke (ISO 5628:2012)  
Paper and board – Determination of bending stiffness – General principles for two-point, three-point and four-point methods (ISO 5628:2012)

HRN ISO 5630-5:2015 en pr  
Papir i karton – Ubrzano starenje – 5. dio: Izlaganje povišenoj temperaturi pri 100 °C (ISO 5630-5:2008)  
Paper and board – Accelerated ageing – Part 5: Exposure to elevated temperature at 100 degrees C (ISO 5630-5:2008)

HRN ISO 5630-6:2015 en pr  
Papir i karton – Ubrzano starenje – 6. dio: Izlaganje atmosferskom zagađenju (dušik oksid) (ISO 5630-6:2009)  
Paper and board – Accelerated ageing – Part 6: Exposure to atmospheric pollution (nitrogen dioxide) (ISO 5630-6:2009)

HRN ISO 5630-7:2015 en pr  
Papir i karton – Ubrzano starenje – 7. dio: Izlaganje svjetlosti (ISO 5630-7:2014)  
Paper and board – Accelerated ageing – Part 7: Exposure to light (ISO 5630-7:2014)

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

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

HRN ISO 5636-3:2015 en pr  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 3. dio: Bendtsenova metoda (ISO 5636-3:2013)  
Paper and board – Determination of air permeance (medium range) – Part 3: Bendtsen method (ISO 5636-3:2013)

HRN ISO 5636-4:2015 en pr  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 4. dio: Scheffieldova metoda (ISO 5636-4:2013)  
Paper and board – Determination of air permeance (medium range) – Part 4: Sheffield method (ISO 5636-4:2013)

HRN ISO 5636-5:2015 en pr  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 5. dio: Gurleyeva metoda (ISO 5636-5:2013)  
Paper and board – Determination of air permeance (medium range) – Part 5: Gurley method (ISO 5636-5:2013)

HRN ISO 6588-1:2015 en pr  
Papir, karton i pulpe – Određivanje pH vrijednosti vodenih ekstrakta – 1. dio: Hladna ekstrakcija (ISO 6588-1:2012)  
Paper, board and pulps – Determination of pH of aqueous extracts – Part 1: Cold extraction (ISO 6588-1:2012)

HRN ISO 6588-2:2015 en pr  
Papir, karton i pulpe – Određivanje pH vrijednosti vodenih ekstrakta – 2. dio: Vruća ekstrakcija (ISO 6588-2:2012)  
Paper, board and pulps – Determination of pH of aqueous extracts – Part 2: Hot extraction (ISO 6588-2:2012)

HRN ISO 8784-1:2015 en pr  
Pulpa, papir i karton – Mikrobiološko ispitivanje – 1. dio: Određivanje broja bakterija i bakterijskih spora na osnovi raspadanja (ISO 8784-1:2014)  
Pulp, paper and board – Microbiological examination – Part 1: Enumeration of bacteria and bacterial spores based on disintegration (ISO 8784-1:2014)

HRN ISO 8791-2:2015 en pr  
Papir i karton – Određivanje hrapavosti/glatkoće (metode propuštanja zraka) – 2. dio: Bendtsenova metoda (ISO 8791-2:2013)  
Paper and board – Determination of roughness/smoothness (air leak methods) – Part 2: Bendtsen method (ISO 8791-2:2013)

HRN ISO 10775:2015 en pr  
Papir, karton i pulpe – Određivanje sadržaja kadmija – Metoda atomske apsorpcijske spektrometrije (ISO 10775:2013)  
Paper, board and pulps – Determination of cadmium content – Atomic absorption spectrometric method (ISO 10775:2013)

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

HRN EN ISO 12625-9:2015 en pr  
Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 9. dio: Određivanje čvrstoće prskanja kuglicom (ISO 12625-9:2015; EN ISO 12625-9:2015)  
Tissue paper and tissue products – Part 9: Determination of ball burst strength (ISO 12625-9:2015; EN ISO 12625-9:2015)

HRN EN ISO 12625-15:2015 en pr  
Tanki upijajući papiri (tissue) i proizvodi od tankoga upijajućeg papira – 15. dio: Određivanje optičkih svojstava – Mjerenje svjetline i boje pomoću rasvjetnog tijela C/2° (unutarnja dnevna svjetlost) (ISO 12625-15:2015; EN ISO 12625-15:2015)  
Tissue paper and tissue products – Part 15: Determination of optical properties – Measurement of brightness and colour with C/2° (indoor daylight) illuminant (ISO 12625-15:2015; EN ISO 12625-15:2015)

HRN EN ISO 12625-16:2015 en pr  
Tanki upijajući papiri (tissue) i proizvodi od tankoga upijajućeg papira – 16. dio: Određivanje optičkih svojstava – Neprozirnost (pozadina papira) – Metoda refleksne difuzije (ISO 12625-16:2015; EN ISO 12625-16:2015)

Tissue paper and tissue products – Part 16: Determination of optical properties – Opacity (paper backing) – Diffuse reflectance method (ISO 12625-16:2015; EN ISO 12625-16:2015)

HRN ISO 12830:2015 en pr  
Papir, karton i pulpe – Određivanje magnezija, kalcija, mangana, željeza, bakra, natrija i kalija topljivih u kiselinu (ISO 12830:2011)

Paper, board and pulps – Determination of acid-soluble magnesium, calcium, manganese, iron, copper, sodium and potassium (ISO 12830:2011)

HRN ISO 13820:2015 en pr  
Papir, karton i valoviti karton – Opis i umjeravanje opreme za ispitivanje pritiskom (ISO 13820:2014)  
Paper, board and corrugated fibreboard – Description and calibration of compression-testing equipment (ISO 13820:2014)

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

## HZN/TO 8, *Brodogradnja*

HRN EN 1808:2015 en pr  
Zahtjevi za sigurnost viseće skele – Projektni proračuni, kriteriji stabilnosti, konstrukcija – Pregledi i ispitivanja (EN 1808:2015)  
Safety requirements for suspended access equipment – Design calculations, stability criteria, construction – Examinations and tests (EN 1808:2015)

HRN ISO 15364:2015 en pr  
Brodovi i pomorska tehnologija – Tlačno/vakuumski ventili za spremnike tereta (ISO 15364:2007)  
Ships and marine technology – Pressure/vacuum valves for cargo tanks (ISO 15364:2007)

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

HRN EN 54-12:2015 en pr  
Sustavi za otkrivanje i dojavu požara – 12. dio: Detektori dima – Linijski detektori s optičkom zrakom (EN 54-12:2015)  
Fire detection and fire alarm systems – Part 12: Smoke detectors – Line detectors using an optical beam (EN 54-12:2015)

HRN EN 54-26:2015 en pr  
Sustavi za otkrivanje i dojavu požara – 26. dio: Detektori ugljičnog monoksida – Točkasti detektori (EN 54-26:2015)  
Fire detection and fire alarm systems – Part 26: Carbon monoxide detectors – Point detectors (EN 54-26:2015)

HRN EN 54-27:2015 en pr  
Sustavi za otkrivanje i dojavu požara – 27. dio: Detektori dima u zračnim kanalima (EN 54-27:2015)  
Fire detection and fire alarm systems – Part 27: Duct smoke detectors (EN 54-27:2015)

HRN EN 54-29:2015 en pr  
Sustavi za otkrivanje i dojavu požara – 29. dio: Multisenzorski detektori požara – Točkasti detektori s kombinacijom osjetnika dima i osjetnika topline (EN 54-29:2015)  
Fire detection and fire alarm systems – Part 29: Multi-sensor fire detectors – Point detectors using a combination of smoke and heat sensors (EN 54-29:2015)

HRN EN 54-30:2015 en pr  
Sustavi za otkrivanje i dojavu požara – 30. dio: Multisenzorski detektori požara – Točkasti detektori s kombinacijom osjetnika ugljičnog monoksida i osjetnika topline (EN 54-30:2015)  
Fire detection and fire alarm systems – Part 30: Multi-sensor fire detectors – Point detectors using a combination of carbon monoxide and heat sensors (EN 54-30:2015)

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

HRN EN ISO 16122-1:2015 en pr  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 1. dio: Općenito (ISO 16122-1:2015; EN ISO 16122-1:2015)  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 1: General (ISO 16122-1:2015; EN ISO 16122-1:2015)

HRN EN ISO 16122-2:2015 en pr  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 2. dio: Prskalice s horizontalnom armaturom (ISO 16122-2:2015; EN ISO 16122-2:2015)  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 2: Horizontal boom sprayers (ISO 16122-2:2015; EN ISO 16122-2:2015)

HRN EN ISO 16122-3:2015 en pr  
Poljoprivredna i šumarska mehanizacija – Inspekcija prskalica u upotrebi – 3. dio: Prskalice za grmlje i drveće (ISO 16122-3:2015; EN ISO 16122-3:2015)  
Agricultural and forestry machinery – Inspection of sprayers in use – Part 3: Sprayers for bush and tree crops (ISO 16122-3:2015; EN ISO 16122-3:2015)

HRN EN ISO 16122-4:2015 en pr  
Poljoprivredni i šumarski strojevi – Inspekcija prskalica u upotrebi – 4. dio: Nepomične i polupokretne prskalice (ISO 16122-4:2015; EN ISO 16122-4:2015)  
Agricultural and forestry machines – Inspection of sprayers in use – Part 4: Fixed and semi-mobile sprayers (ISO 16122-4:2015; EN ISO 16122-4:2015)

## HZN/TO 25, *Ljevarstvo*

HRS CEN ISO/TS 8062-2:2015 en pr  
Geometrijske specifikacije proizvoda (GPS) – Dopuštena odstupanja mjera i oblika za dijelove odlivene u kalupu – 2. dio: Pravila (ISO/TS 8062-2:2013, Ispravljena verzija 2013-11-01; CEN ISO/TS 8062-2:2013)  
Geometrical Product Specifications (GPS) – Dimensional and geometrical tolerances for moulded parts – Part 2: Rules (ISO/TS 8062-2:2013, Corrected version 2013-11-01; CEN ISO/TS 8062-2:2013)

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

HRN EN ISO 3679:2015 en pr  
Određivanje paljenja i točke paljenja – Metoda brze ravnoteže u zatvorenoj posudi (ISO 3679:2015; EN ISO 3679:2015)  
Determination of flash no-flash and flash point – Rapid equilibrium closed cup method (ISO 3679:2015; EN ISO 3679:2015)

HRN EN 16136:2015 en pr  
Goriva za motorna vozila – Određivanje količine mangana i željeza u bezolovnim motornim benzinima – Metoda optičke emisijske spektralne analize s induktivno spregnutom plazmom (EN 16136:2015)  
Automotive fuels – Determination of manganese and iron content in unleaded petrol – Inductively coupled plasma optical emission spectrometry (ICP OES) method (EN 16136:2015)

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

HRN EN 15948:2015 en pr  
Žitarice – Određivanje vlage i proteina – Metoda primjenom bliske infracrvene spektroskopije u cijelom zrnu (EN 15948:2015)  
Cereals – Determination of moisture and protein – Method using Near-Infrared-Spectroscopy in whole kernels (EN 15948:2015)

## HZN/TO 34/PO 7, *Poljoprivredni i prehrambeni proizvodi; Kava, čaj, mirodije i začini*

HRN EN ISO 3493:2015 en pr  
Vanilija – Rječnik (ISO 3493:2014; EN ISO 3493:2014)  
Vanilla – Vocabulary (ISO 3493:2014; EN ISO 3493:2014)

## HZN/TO 35, *Boje i lakovi*

HRN EN 16623:2015 en pr  
Boje i lakovi – Reaktivne prevlake za zaštitu od požara metalnih podloga – Definicije, zahtjevi, karakteristike i označavanje (EN 16623:2015)  
Paints and varnishes – Reactive coatings for fire protection of metallic substrates – Definitions, requirements, characteristics and marking (EN 16623:2015)

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

HRN EN ISO 9453:2015 en pr  
Meki lemovi – Kemijski sastavi i oblici isporuke (ISO 9453:2014; EN ISO 9453:2014)  
Soft solder alloys – Chemical compositions and forms (ISO 9453:2014; EN ISO 9453:2014)

HRN EN ISO 10447:2015 en pr  
Elektrootporno zavarivanje – Ispitivanje zavara – Ispitivanje točkastih i bradavičastih zavara ljuštenjem i razdvajanjem klinom (ISO 10447:2015; EN ISO 10447:2015)  
Resistance welding – Testing of welds – Peel and chisel testing of resistance spot and projection welds (ISO 10447:2015; EN ISO 10447:2015)

HRN EN ISO 14323:2015 en pr  
Elektrootporno zavarivanje – Razorno ispitivanje zavara – Dimenzije ispitnog uzorka i postupak za udarno posmično i križno-vlačno ispitivanje točkastih i bradavičastih zavara (ISO 14323:2015; EN ISO 14323:2015)  
Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for impact tensile shear test and cross-tension testing of resistance spot and embossed projection welds (ISO 14323:2015; EN ISO 14323:2015)

HRN EN ISO 14373:2015 en pr  
Elektrootporno zavarivanje – Postupak za točkasto zavarivanje niskougličnih čelika s prevlakom i bez prevlake (ISO 14373:2015; EN ISO 14373:2015)  
Resistance welding – Procedure for spot welding of uncoated and coated low carbon steels (ISO 14373:2015; EN ISO 14373:2015)

HRN EN ISO 23277:2015 en pr  
Nerazorno ispitivanje zavara – Ispitivanje penetrantima – Razine prihvatljivosti (ISO 23277:2015; EN ISO 23277:2015)  
Non-destructive testing of welds – Penetrant testing – Acceptance levels (ISO 23277:2015; EN ISO 23277:2015)

HRN EN ISO 23278:2015 en pr  
Nerazorno ispitivanje zavara – Ispitivanje zavara magnetskim česticama – Razine prihvatljivosti (ISO 23278:2015; EN ISO 23278:2015)  
Non-destructive testing of welds – Magnetic particle testing – Acceptance levels (ISO 23278:2015; EN ISO 23278:2015)

#### **HZN/TO 54, Eterična ulja**

HRN EN ISO 3218:2015 en pr  
Eterična ulja – Načela nomenklature (ISO 3218:2014; EN ISO 3218:2014)  
Essential oils – Principles of nomenclature (ISO 3218:2014; EN ISO 3218:2014)

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

HRI CEN/TR 16639:2015 en pr  
Primjena koncepta k-vrijednosti, koncepta ekvivalentnih uporabnih svojstava betona i koncepta kombinacija ekvivalentnih uporabnih svojstava (CEN/TR 16639:2014)  
Use of k-value concept, equivalent concrete performance concept and equivalent performance of combinations concept (CEN/TR 16639:2014)

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

HRN EN 13282-3:2015 en pr  
Hidraulična veziva za ceste – 3. dio: Vrednovanje sukladnosti (EN 13282-3:2015)  
Hydraulic road binders – Part 3: Conformity evaluation (EN 13282-3:2015)

HRN EN 15743:2015 en pr  
Supersulfatni cement – Sastav, specifikacije i kriteriji sukladnosti (EN 15743:2010+A1:2015)  
Supersulfated cement – Composition, specifications and conformity criteria (EN 15743:2010+A1:2015)

#### **HZN/TO 89, Furniri i drvene ploče**

HRN EN 636:2015 en pr  
Uslojeno drvo – Specifikacije (EN 636:2012+A1:2015)  
Plywood – Specifications (EN 636:2012+A1:2015)

HRN EN 13986:2015 en pr  
Ploče na osnovi drva za uporabu u graditeljstvu – Karakteristike, ocjenjivanje sukladnosti i označavanje (EN 13986:2004+A1:2015)  
Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking (EN 13986:2004+A1:2015)

#### **HZN/TO 92, Zaštita od požara**

HRN EN 1365-2:2015 en pr  
Ispitivanja otpornosti na požar nosivih elemenata – 2. dio: Međukatne i krovne konstrukcije (EN 1365-2:2014)  
Fire resistance tests for loadbearing elements – Part 2: Floors and roofs (EN 1365-2:2014)

#### **HZN/TO 120, Koža i obuća**

HRN EN ISO 14931:2015 en pr  
Koža – Upute za odabir kože za odjeću (isključujući krzna) (ISO 14931:2015; EN ISO 14931:2015)  
Leather – Guide to the selection of leather for apparel (excluding furs) (ISO 14931:2015; EN ISO 14931:2015)

HRN EN ISO 17070:2015 en pr  
Koža – Kemijska ispitivanja – Određivanje sadržaja tetraklorfenol-, triklorfenol-, diklorfenol-, monoklorfenol-izomera i pentaklorfenola (ISO 17070:2015; EN ISO 17070:2015)  
Leather – Chemical tests – Determination of tetrachlorophenol, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content (ISO 17070:2015; EN ISO 17070:2015)

HRN EN ISO 17228:2015 en pr  
Koža – Ispitivanje postojanosti obojenja – Promjena boje prouzročena ubrzanim starenjem (ISO 17228:2015; EN ISO 17228:2015)  
Leather – Tests for colour fastness – Change in colour with accelerated ageing (ISO 17228:2015; EN ISO 17228:2015)

HRN EN ISO 17234-1:2015 en pr  
Koža – Kemijska ispitivanja za određivanje određenih azobojila u obojenoj koži – 1. dio: Određivanje određenih aromatskih amina dobivenih iz azobojila (ISO 17234-1:2015; EN ISO 17234-1:2015)  
Leather – Chemical tests for the determination of certain azo colorants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colorants (ISO 17234-1:2015; EN ISO 17234-1:2015)

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

HRN EN 1865-2:2015 en pr  
Oprema za postupanje s bolesnikom koja se upotrebljava u cestovnim ambulantsnim vozilima – 2. dio: Ležaj s pogonom (EN 1865-2:2010+A1:2015)  
Patient handling equipment used in road ambulances – Part 2: Power assisted stretcher (EN 1865-2:2010+A1:2015)

HRN EN 1865-3:2015 en pr  
Oprema za postupanje s bolesnikom koja se upotrebljava u cestovnim ambulantsnim vozilima – 3. dio: Ležaj s pojačanim osobinama (EN 1865-3:2012+A1:2015)  
Patient handling equipment used in road ambulances – Part 3: Heavy duty stretcher (EN 1865-3:2012+A1:2015)

HRN EN ISO 5356-1:2015 en pr  
Anestetička i respiracijska oprema – Stožasti priključci – 1. dio: Stožasti utikači i utičnice (ISO 5356-1:2015; EN ISO 5356-1:2015)  
Anaesthetic and respiratory equipment – Conical connectors – Part 1: Cones and sockets (ISO 5356-1:2015; EN ISO 5356-1:2015)

HRN EN 13718-2:2015 en pr  
Medicinska vozila i njihova oprema – Zračne ambulante – 2. dio: Radni i tehnički zahtjevi za zračne ambulante (EN 13718-2:2015)  
Medical vehicles and their equipment – Air ambulances – Part 2: Operational and technical requirements of air ambulances (EN 13718-2:2015)

#### **HZN/TO 130, Grafička tehnologija**

HRN ISO 12647-5:2015 en pr  
Grafička tehnologija – Kontrola postupaka za kontrolu rasterskih izvadaka, probnog i proizvodnog otiska – 5. dio: Sitotisk (ISO 12647-5:2015)  
Graphic technology – Process control for the manufacture of half-tone colour separations, proof and production prints – Part 5: Screen printing (ISO 12647-5:2015)

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

HRN EN ISO 17405:2015 en pr  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Tehnika ispitivanja obloga dobivenih zavarivanjem, valjanjem i eksplozijom (ISO 17405:2014; EN ISO 17405:2014)  
Non-destructive testing – Ultrasonic testing – Technique of testing claddings produced by welding, rolling and explosion (ISO 17405:2014; EN ISO 17405:2014)

## HZN/TO 136, Namještaj

HRN EN 16122:2013/Ispr.1:2015 en pr  
Namještaj za skladištenje koji nije za kućnu uporabu – Metode ispitivanja za određivanje čvrstoće, izdržljivosti i stabilnosti (EN 16122:2012/AC:2015)  
Domestic and non-domestic storage furniture – Test methods for the determination of strength, durability and stability (EN 16122:2012/AC:2015)

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

HRN EN ISO 3458:2015 en pr  
Plastični cijevni sustavi – Mehanički spojevi spojnica i tlačnih cijevi – Metoda ispitivanja nepropusnosti pod unutarnjim tlakom (ISO 3458:2015; EN ISO 3458:2015)  
Plastics piping systems – Mechanical joints between fittings and pressure pipes – Test method for leaktightness under internal pressure (ISO 3458:2015; EN ISO 3458:2015)

HRN EN ISO 3459:2015 en pr  
Plastični cijevni sustavi – Mehanički spojevi spojnica i tlačnih cijevi – Metoda ispitivanja nepropusnosti pod negativnim tlakom (ISO 3459:2015; EN ISO 3459:2015)  
Plastics piping systems – Mechanical joints between fittings and pressure pipes – Test method for leaktightness under negative pressure (ISO 3459:2015; EN ISO 3459:2015)

HRN EN ISO 3501:2015 en pr  
Plastični cijevni sustavi – Mehanički spojevi spojnica i tlačnih cijevi – Metoda ispitivanja otpornosti na izvlačenje pod djelovanjem konstantne uzdužne sile (ISO 3501:2015; EN ISO 3501:2015)  
Plastics piping systems – Mechanical joints between fittings and pressure pipes – Test method for resistance to pull-out under constant longitudinal force (ISO 3501:2015; EN ISO 3501:2015)

HRN EN ISO 3503:2015 en pr  
Plastični cijevni sustavi – Mehanički spojevi spojnica i tlačnih cijevi – Metoda ispitivanja nepropusnosti pod unutarnjim tlakom sklopova podvrgnutih savijanju (ISO 3503:2015; EN ISO 3503:2015)  
Plastics piping systems – Mechanical joints between fittings and pressure pipes – Test method for leaktightness under internal pressure of assemblies subjected to bending (ISO 3503:2015; EN ISO 3503:2015)

HRN EN ISO 6259-1:2015 en pr  
Plastomerne cijevi – Određivanje rasteznih svojstava – 1. dio: Opća metoda ispitivanja (ISO 6259-1:2015; EN ISO 6259-1:2015)  
Thermoplastics pipes – Determination of tensile properties – Part 1: General test method (ISO 6259-1:2015; EN ISO 6259-1:2015)

HRN EN ISO 13844:2015 en pr  
Plastični cijevni sustavi – Spojni naglavci s elastomernom prstenastom brtvom za plastične cijevi – Metoda ispitivanja nepropusnosti pod negativnim tlakom, kutnim otklonom i deformacijom (ISO 13844:2015; EN ISO 13844:2015)  
Plastics piping systems – Elastomeric-sealing-ring-type socket joints for use with plastic pressure pipes – Test method for leaktightness under negative pressure, angular deflection and deformation (ISO 13844:2015; EN ISO 13844:2015)

HRN EN ISO 13845:2015 en pr  
Plastični cijevni sustavi – Spojni naglavci s elastomernom prstenastom brtvom za plastomerne cijevi – Metoda ispitivanja nepropusnosti pod unutarnjim tlakom i s kutnim otklonom (ISO 13845:2015; EN ISO 13845:2015)  
Plastics piping systems – Elastomeric-sealing-ring-type socket joints for use with thermoplastic pressure pipes – Test method for leaktightness under internal pressure and with angular deflection (ISO 13845:2015; EN ISO 13845:2015)

HRN EN ISO 17778:2015 en pr  
Plastični cijevni sustavi – Spojnice, ventili i pribor – Određivanje odnosa između brzine protoka plina i pada tlaka (ISO 17778:2015; EN ISO 17778:2015)  
Plastics piping systems – Fittings, valves and ancillaries – Determination of gaseous flow rate/pressure drop relationships (ISO 17778:2015; EN ISO 17778:2015)

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

HRS CEN/TS 16692:2015 en pr  
Kvaliteta vode – Određivanje tributiltin (TBT) u cjelovitim uzorcima vode – Metoda ekstrakcije na čvrstoj fazi (SPE) sa SPE diskovima i plinske kromatografije s trostruko kvadrupolnom spektrometrijom masa (CEN/TS 16692:2015)  
Water quality – Determination of tributyltin (TBT) in whole water samples – Method using solid phase extraction (SPE) with SPE disks and gas chromatography with triple quadrupole mass spectrometry (CEN/TS 16692:2015)

## HZN/TO 163, Toplinska izolacija

HRN EN 13162:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od mineralne vune (MW) – Specifikacija (EN 13162:2012+A1:2015)  
Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification (EN 13162:2012+A1:2015)

HRN EN 13163:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog polistirena (EPS) – Specifikacija (EN 13163:2012+A1:2015)  
Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification (EN 13163:2012+A1:2015)

HRN EN 13164:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekstrudirane polistirenske pjene (XPS) – Specifikacija (EN 13164:2012+A1:2015)  
Thermal insulation products for buildings – Factory made extruded polystyrene foam (XPS) products – Specification (EN 13164:2012+A1:2015)

HRN EN 13165:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od tvrde poliuretanske pjene (PUR) – Specifikacija (EN 13165:2012+A1:2015)  
Thermal insulation products for buildings – Factory made rigid polyurethane foam (PU) products – Specification (EN 13165:2012+A1:2015)

HRN EN 13166:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od fenolne pjene (PF) – Specifikacija (EN 13166:2012+A1:2015)  
Thermal insulation products for buildings – Factory made phenolic foam (PF) products – Specification (EN 13166:2012+A1:2015)

HRN EN 13167:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ćeljastog (pjenastog) stakla (CG) – Specifikacija (EN 13167:2012+A1:2015)  
Thermal insulation products for buildings – Factory made cellular glass (CG) products – Specification (EN 13167:2012+A1:2015)

HRN EN 13168:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od drvene vune (WW) – Specifikacija (EN 13168:2012+A1:2015)  
Thermal insulation products for buildings – Factory made wood wool (WW) products – Specification (EN 13168:2012+A1:2015)

HRN EN 13169:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog perlita (EPB) – Specifikacija (EN 13169:2012+A1:2015)  
Thermal insulation products for buildings – Factory made expanded perlite board (EPB) products – Specification (EN 13169:2012+A1:2015)

HRN EN 13170:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog plutu (ICB) – Specifikacija (EN 13170:2012+A1:2015)  
Thermal insulation products for buildings – Factory made products of expanded cork (ICB) – Specification (EN 13170:2012+A1:2015)

HRN EN 13171:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od drvenih vlakana (WF) – Specifikacija (EN 13171:2012+A1:2015)  
Thermal insulation products for buildings – Factory made wood fibre (WF) products – Specification (EN 13171:2012+A1:2015)

HRN EN 16012:2015 en pr  
Toplinska izolacija za zgrade – Reflektirajući izolacijski proizvodi – Određivanje deklariranoga toplinskog svojstva (EN 16012:2012+A1:2015)  
Thermal insulation for buildings – Reflective insulation products – Determination of the declared thermal performance (EN 16012:2012+A1:2015)

HRN EN 16069:2015 en pr  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od polietilenske pjene (PEF) – Specifikacija (EN 16069:2012+A1:2015)  
Thermal insulation products for buildings – Factory made products of polyethylene foam (PEF) – Specification (EN 16069:2012+A1:2015)

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

HRN EN ISO 11979-8:2015 en pr  
Oftalmološki implantanti – Intraokularne leće – 8. dio: Osnovni zahtjevi (ISO 11979-8:2006+Amd 1:2011; EN ISO 11979-8:2015)  
Ophthalmic implants – Intraocular lenses – Part 8: Fundamental requirements (ISO 11979-8:2006+Amd 1:2011; EN ISO 11979-8:2015)

HRN EN ISO 14534:2015 en pr  
Oftalmološka optika – Kontaktne leće i proizvodi za njegov kontaktne leća – Osnovni zahtjevi (ISO 14534:2011; EN ISO 14534:2015)  
Ophthalmic optics – Contact lenses and contact lens care products – Fundamental requirements (ISO 14534:2011; EN ISO 14534:2015)

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

HRS CEN/TS 16555-2:2015 en pr  
Upravljanje inovacijama – 2. dio: Upravljanje strateškim istraživanjima (CEN/TS 16555-2:2014)  
Innovation management – Part 2: Strategic intelligence management (CEN/TS 16555-2:2014)

HRS CEN/TS 16555-4:2015 en pr  
Upravljanje inovacijama – 4. dio: Upravljanje intelektualnim vlasništvom (CEN/TS 16555-4:2014)  
Innovation management – Part 4: Intellectual property management (CEN/TS 16555-4:2014)

HRS CEN/TS 16555-5:2015 en pr  
Upravljanje inovacijama – 5. dio: Upravljanje suradnjama (CEN/TS 16555-5:2014)  
Innovation management – Part 5: Collaboration management (CEN/TS 16555-5:2014)

HRS CEN/TS 16555-6:2015 en pr  
Upravljanje inovacijama – 6. dio: Upravljanje kreativnošću (CEN/TS 16555-6:2014)  
Innovation management – Part 6: Creativity management (CEN/TS 16555-6:2014)

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

HRN EN ISO 25745-2:2015 en pr  
Energetske značajke dizala, pokretnih stuba i pokretnih traka – 2. dio: Proračun energije i razredba dizala (ISO 25745-2:2015; EN ISO 25745-2:2015)  
Energy performance of lifts, escalators and moving walks – Part 2: Energy calculation and classification for lifts (elevators) (ISO 25745-2:2015; EN ISO 25745-2:2015)

HRN EN ISO 25745-3:2015 en pr  
Energetske značajke dizala, pokretnih stuba i pokretnih traka – 3. dio: Proračun potrebne energije i razredba dizala i pokretnih traka (ISO 25745-3:2015; EN ISO 25745-3:2015)  
Energy performance of lifts, escalators and moving walks – Part 3: Energy calculation and classification of escalators and moving walks (ISO 25745-3:2015; EN ISO 25745-3:2015)

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

HRN EN ISO 22476-12:2015 en pr  
Geotehničko istraživanje i ispitivanje – Terensko ispitivanje – 12. dio: Ispitivanje statičkim, mehaničkim penetrometrom (CPT) (ISO 22476-12:2009; EN ISO 22476-12:2009)  
Geotechnical investigation and testing – Field testing – Part 12: Mechanical cone penetration test (CPTM) (ISO 22476-12:2009; EN ISO 22476-12:2009)

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

HRN EN 1469:2015 en pr  
Proizvodi od prirodnog kamena – Ploče za oblaganje – Zahtjevi (EN 1469:2015)  
Natural stone products – Slabs for cladding – Requirements (EN 1469:2015)

HRN EN 12057:2015 en pr  
Proizvodi od prirodnog kamena – Modularne ploče – Zahtjevi (EN 12057:2015)  
Natural stone products – Modular tiles – Requirements (EN 12057:2015)

HRN EN 12058:2015 en pr  
Proizvodi od prirodnog kamena – Ploče za podove i stube – Zahtjevi (EN 12058:2015)  
Natural stone products – Slabs for floors and stairs – Requirements (EN 12058:2015)

### **HZN/TO 211, Geoinformacije/Geomatika**

HRI CEN/TR 15449-5:2015 en pr  
Geoinformacije – Infrastruktura prostornih podataka – 5. dio: Provjera i testiranje (CEN/TR 15449-5:2015)  
Geographic information – Spatial data infrastructures – Part 5: Validation and testing (CEN/TR 15449-5:2015)

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

HRN ISO 15819:2015 en pr  
Kozmetika – Analitičke metode – Nitrozamini: Dokazivanje i određivanje N-nitrozodietanolamina (NDELA) u kozmetičkim proizvodima HPLC-MS-MS tehnikom (ISO 15819:2014)  
Cosmetics – Analytical methods – Nitrosamines: Detection and determination of N-nitrosodiethanolamine (NDELA) in cosmetics by HPLC-MS-MS (ISO 15819:2014)

HRN EN ISO 17516:2015 en pr  
Kozmetika – Mikrobiologija – Mikrobiološki kriteriji (ISO 17516:2014; EN ISO 17516:2014)  
Cosmetics – Microbiology – Microbiological limits (ISO 17516:2014; EN ISO 17516:2014)

### **HZN/TO 218, Drvo**

HRS CEN/TS 12404:2015 en pr  
Trajnost drva i proizvoda na osnovi drva – Procjena učinkovitosti građevinskog fungicida za sprečavanje razvoja smeđe suhe truleži *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray u drvu – Laboratorijska metoda (CEN/TS 12404:2015)  
Durability of wood and wood-based products – Assessment of the effectiveness of a masonry fungicide to prevent growth into wood of Dry Rot *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray – Laboratory method (CEN/TS 12404:2015)

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

HRN EN 13553:2015 en pr  
Elastične podne obloge – Poli(vinil-kloridne) podne obloge za uporabu u izrazito mokrim prostorima – Specifikacija (EN 13553:2015)  
Resilient floor coverings – Polyvinyl chloride floor coverings for use in special wet areas – Specification (EN 13553:2015)

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

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

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

HRN EN 13249:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji cesta i ostalih prometnih površina (izuzimaju se željeznice i asfaltni sojevi) (EN 13249:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion) (EN 13249:2014+A1:2015)

HRN EN 13250:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji željeznica (EN 13250:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of railways (EN 13250:2014+A1:2015)

HRN EN 13251:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izvođenju zemljanih radova, temelja i potpornih konstrukcija (EN 13251:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in earthworks, foundations and retaining structures (EN 13251:2014+A1:2015)

HRN EN 13252:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu u drenažnim sustavima (EN 13252:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in drainage systems (EN 13252:2014+A1:2015)

HRN EN 13253:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu u zaštiti od erozije (zaštita obale, obaloutvrde) (EN 13253:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in erosion control works (coastal protection, bank revetments) (EN 13253:2014+A1:2015)

HRN EN 13254:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji akumulacijskih jezera i brana (EN 13254:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of reservoirs and dams (EN 13254:2014+A1:2015)

HRN EN 13255:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji kanala (EN 13255:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of canals (EN 13255:2014+A1:2015)

HRN EN 13256:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji tunela i podzemnih građevina (EN 13256:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of tunnels and underground structures (EN 13256:2014+A1:2015)

HRN EN 13257:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima krutog otpada (EN 13257:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in solid waste disposals (EN 13257:2014+A1:2015)

HRN EN 13265:2015 en pr  
Geotekstili i proizvodi srodni s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima tekućeg otpada (EN 13265:2014+A1:2015)  
Geotextiles and geotextile-related products – Characteristics required for use in liquid waste containment projects (EN 13265:2014+A1:2015)

HRN EN 14574:2015 en pr  
Geosintetici – Određivanje otpornosti geosintetika na krutoj podlozi na probijanje piramidom (EN 14574:2015)  
Geosynthetics – Determination of the pyramid puncture resistance of supported geosynthetics (EN 14574:2015)

## HZN/TO 238, Čvrsta biogoriva

HRN EN ISO 16993:2015 en pr  
Čvrsta biogoriva – Preračun iskaza rezultata analiza (ISO 16993:2015; EN ISO 16993:2015)  
Solid biofuels – Conversion of analytical results from one basis to another (ISO 16993:2015; EN ISO 16993:2015)

HRN EN ISO 16994:2015 en pr  
Čvrsta biogoriva – Utvrđivanje ukupnog udjela sumpora i klora (ISO 16994:2015; EN ISO 16994:2015)  
Solid biofuels – Determination of total content of sulfur and chlorine (ISO 16994:2015; EN ISO 16994:2015)

HRN EN ISO 16995:2015 en pr  
Čvrsta biogoriva – Utvrđivanje u vodi otopljenih udjela klora, natrija i kalija (ISO 16995:2015; EN ISO 16995:2015)  
Solid biofuels – Determination of the water soluble chloride, sodium and potassium content (ISO 16995:2015; EN ISO 16995:2015)

## HZN/TO 503, Metalni materijali

HRN EN 1396:2015 en pr  
Aluminij i aluminijeve legure – Limovi i trake u kolutu zaštićeni prevlakom za opće namjene – Specifikacije (EN 1396:2015)  
Aluminium and aluminium alloys – Coil coated sheet and strip for general applications – Specifications (EN 1396:2015)

HRN EN 1559-4:2015 en pr  
Ljevarstvo – Tehnički uvjeti isporuke – 4. dio: Dodatni zahtjevi za odljevke od aluminijevih legura (EN 1559-4:2015)  
Founding – Technical conditions of delivery – Part 4: Additional requirements for aluminium alloy castings (EN 1559-4:2015)

HRN EN ISO 6508-1:2015 en pr  
Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 1. dio: Metoda ispitivanja (ISO 6508-1:2015; EN ISO 6508-1:2015)  
Metallic materials – Rockwell hardness test – Part 1: Test method (ISO 6508-1:2015; EN ISO 6508-1:2015)

HRN EN ISO 6508-2:2015 en pr  
Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 2. dio: Provjeravanje i umjeravanje ispitnih uređaja i utiskivača (ISO 6508-2:2015; EN ISO 6508-2:2015)  
Metallic materials – Rockwell hardness test – Part 2: Verification and calibration of testing machines and indenters (ISO 6508-2:2015; EN ISO 6508-2:2015)

HRN EN ISO 6508-3:2015 en pr  
Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 3. dio: Umjeravanje referentnih pločica (ISO 6508-3:2015; EN ISO 6508-3:2015)  
Metallic materials – Rockwell hardness test – Part 3: Calibration of reference blocks (ISO 6508-3:2015; EN ISO 6508-3:2015)

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

HRN EN ISO 4528:2015 en pr  
Staklaste i porculanske emajlirane površine – Smjernice za odabir metoda ispitivanja za staklaste i porculanske emajlirane dijelove proizvoda (ISO 4528:2015; EN ISO 4528:2015)  
Vitreous and porcelain enamel finishes – Guide to selection of test methods for vitreous and porcelain enamelled areas of articles (ISO 4528:2015; EN ISO 4528:2015)

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

HRN EN ISO 6141:2015 en pr  
Analiza plina – Sadržaj certifikata za plinske smjese za umjeravanje (ISO 6141:2015; EN ISO 6141:2015)  
Gas analysis – Contents of certificates for calibration gas mixtures (ISO 6141:2015; EN ISO 6141:2015)

HRN EN ISO 10439-1:2015 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Aksijalni i centrifugalni kompresori i ekspanzijski kompresori – 1. dio: Opći zahtjevi (ISO 10439-1:2015; EN ISO 10439-1:2015)  
Petroleum, petrochemical and natural gas industries – Axial and centrifugal compressors and expander-compressors – Part 1: General requirements (ISO 10439-1:2015; EN ISO 10439-1:2015)

HRN EN ISO 10439-2:2015 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Aksijalni i centrifugalni kompresori i ekspanzijski kompresori – 2. dio: Neintegralno pogonjeni centrifugalni i aksijalni kompresori (ISO 10439-2:2015; EN ISO 10439-2:2015)



Petroleum, petrochemical and natural gas industries – Axial and centrifugal compressors and expander-compressors – Part 2: Non-integrally geared centrifugal and axial compressors (ISO 10439-2:2015; EN ISO 10439-2:2015)

HRN EN ISO 10439-3:2015 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Aksijalni i centrifugalni kompresori i ekspanzijski kompresori – 3. dio: Centrifugalni kompresori s integriranim zupčanicima (ISO 10439-3:2015; EN ISO 10439-3:2015)  
Petroleum, petrochemical and natural gas industries – Axial and centrifugal compressors and expander-compressors – Part 3: Integrally geared centrifugal compressors (ISO 10439-3:2015; EN ISO 10439-3:2015)

HRN EN ISO 10439-4:2015 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Aksijalni i centrifugalni kompresori i ekspanzijski kompresori – 4. dio: Ekspanzijski kompresori (ISO 10439-4:2015; EN ISO 10439-4:2015)  
Petroleum, petrochemical and natural gas industries – Axial and centrifugal compressors and expander-compressors – Part 4: Expander-compressors (ISO 10439-4:2015; EN ISO 10439-4:2015)

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

HRN EN 1793-4:2015 en pr  
Barijere za zaštitu od buke s cesta – Ispitne metode za određivanje akustičnih svojstava – 4. dio: Osnovne značajke – In situ vrijednosti difrakcije zvuka (EN 1793-4:2015)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 4: Intrinsic characteristics – In situ values of sound diffraction (EN 1793-4:2015)

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

HRN EN 16264:2015 en pr  
Pirotehnička sredstva – Ostala pirotehnička sredstva – Punjenja za alate pokretane pirotehničkim smjesama (EN 16264:2014)  
Pyrotechnic articles – Other pyrotechnic articles – Cartridges for powder actuated tools (EN 16264:2014)

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

HRN EN 12480:2015 en pr  
Plinomjeri – Plinomjeri s rotacijskim klipovima (EN 12480:2015)  
Gas meters – Rotary displacement gas meters (EN 12480:2015)

HRN EN 45501:2015 en pr  
Mjeriteljski aspekti neautomatskih vaga (EN 45501:2015)  
Metrological aspects of non-automatic weighing instruments (EN 45501:2015)

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

HRN DIN 4103-1:2015 de pr  
Nenosivi unutarnji pregradni zidovi – 1. dio: Zahtjevi i ispitivanje (DIN 4103-1:2014)  
Nichttragende innere Trennwände – Teil 1: Anforderungen und Nachweise (DIN 4103-1:2014)

HRS CEN/TS 16717:2015 en pr  
Površine sportskih terena – Metoda ispitivanja za određivanje ublažavanje udaraca, vertikalne deformacije i energetsko obnavljanje kod korištenja naprednih sportaša (CEN/TS 16717:2015)  
Surface for sports areas – Method of test for the determination of shock absorption, vertical deformation and energy restitution using the advanced artificial athlete (CEN/TS 16717:2015)

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

HRN EN 1501-1:2015 en pr  
Vozila za skupljanje otpada – Opći i sigurnosni zahtjevi – 1. dio: Vozila za skupljanje otpada sa stražnjim punjenjem (EN 1501-1:2011+A1:2015)  
Refuse collection vehicles – General requirements and safety requirements – Part 1: Rear loaded refuse collection vehicles (EN 1501-1:2011+A1:2015)

HRN EN 14429:2015 en pr  
Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju – Utjecaj pH-vrijednosti na izluživanje uz početni dodatak kiseline/lužine (EN 14429:2015)  
Characterisation of waste – Leaching behaviour test – Influence of pH on leaching with initial acid/base addition (EN 14429:2015)

HRN EN 14997:2015 en pr  
Karakterizacija otpada – Ispitivanja ponašanja pri izluživanju – Utjecaj pH na izluživanje uz kontinuiranu kontrolu pH vrijednosti (EN 14997:2015)  
Characterisation of waste – Leaching behaviour test – Influence of pH on leaching with continuous pH control (EN 14997:2015)

HRN EN 15863:2015 en pr  
Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju za osnovnu karakterizaciju – Dinamička provjera monolitnog izluživanja s periodičnom obnovom procjedne vode pri stalnim uvjetima ispitivanja (EN 15863:2015)  
Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic monolithic leaching test with periodic leachant renewal, under fixed conditions (EN 15863:2015)

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

HRS CEN/TS 16702-2:2015 en pr  
Elektronička naplata – Sigurnosno nadgledanje za autonomne sustave naplate – 2. dio: Siguran zapisivač (CEN/TS 16702-2:2015)  
Electronic fee collection – Secure monitoring for autonomous toll systems – Part 2: Trusted recorder (CEN/TS 16702-2:2015)

### **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

HRN EN 12730:2015 en pr  
Savijljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na statičko opterećenje (EN 12730:2015)  
Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of resistance to static loading (EN 12730:2015)

HRN EN 16153:2015 en pr  
Prozirne ravne višeslojne polikarbonatne (PC) trake za unutrašnju i vanjsku upotrebu na krovovima, zidovima i stropovima – Zahtjevi i metode ispitivanja (EN 16153:2013+A1:2015)  
Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test methods (EN 16153:2013+A1:2015)

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

HRN EN 14752:2015 en pr  
Željeznički sustav – Sustavi bočnog ulaznja za željeznička vozila (EN 14752:2015)  
Railway applications – Bodyside Entrance Systems for rolling stock (EN 14752:2015)

HRN EN 16494:2015 en pr  
Željeznički sustav – Zahtjevi za ploče ERTMS signala i signalnih oznaka (EN 16494:2015)  
Railway applications – Requirements for ERTMS Trackside Boards (EN 16494:2015)

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

HRN EN 13001-1:2015 en pr  
Granici – Opće projektiranje – 1. dio: Opća načela i zahtjevi (EN 13001-1:2015)  
Cranes – General design – Part 1: General principles and requirements (EN 13001-1:2015)

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

HRN EN 853:2015 en pr  
Gumena crijeva i crijevni uređaji – Hidraulični tip ojačan žicom – Specifikacija (EN 853:2015)  
Rubber hoses and hose assemblies – Wire braid reinforced hydraulic type – Specification (EN 853:2015)

HRN EN 854:2015 en pr  
Gumena crijeva i crijevni uređaji – Hidraulični tip ojačan tekstilom – Specifikacija (EN 854:2015)  
Rubber hoses and hose assemblies – Textile reinforced hydraulic type – Specification (EN 854:2015)

HRN EN 856:2015 en pr  
Gumena crijeva i crijevni uređaji – Gumeni hidraulični tip obložen i ojačan spiralnom žicom – Specifikacija (EN 856:2015)  
Rubber hoses and hose assemblies – Rubber-covered spiral wire reinforced hydraulic type – Specification (EN 856:2015)

HRN EN 857:2015 en pr  
Gumena crijeva i crijevni uređaji – Kompaktni tip ojačan žičanom mrežom za hidrauličnu primjenu – Specifikacija (EN 857:2015)  
Rubber hoses and hose assemblies – Wire braid reinforced compact type for hydraulic applications – Specification (EN 857:2015)

HRN EN ISO 899-1:2008/A1:2015 en pr  
Plastika – Određivanje ponašanja pri puzanju – 1. dio: Rastežno puzanje – Amandman 1 (ISO 899-1:2003/Amd 1:2015; EN ISO 899-1:2003/A1:2015)  
Plastics – Determination of creep behaviour – Part 1: Tensile creep – Amendment 1 (ISO 899-1:2003/Amd 1:2015; EN ISO 899-1:2003/A1:2015)

HRN EN ISO 899-2:2008/A1:2015 en pr  
Plastika – Određivanje ponašanja pri puzanju – 2. dio: Savojno puzanje uz opterećenje na tri točke – Amandman 1 (ISO 899-2:2003/Amd 1:2015; EN ISO 899-2:2003/A1:2015)  
Plastics – Determination of creep behaviour – Part 2: Flexural creep by three-point loading – Amendment 1 (ISO 899-2:2003/Amd 1:2015; EN ISO 899-2:2003/A1:2015)

HRN EN ISO 1628-5:2015 en pr  
Plastika – Određivanje viskoznosti polimera u razrijeđenoj otopini s uporabom kapilarnih viskozimetara – 5. dio: Plastomerni poliesterski homopolimeri (TPU) i kopolimeri (ISO 1628-5:1998; EN ISO 1628-5:2015)  
Plastics – Determination of the viscosity of polymers in dilute solution using capillary viscometers – Part 5: Thermoplastic polyester (TP) homopolymers and copolymers (ISO 1628-5:1998; EN ISO 1628-5:2015)

HRN EN ISO 9988-2:2015 en pr  
Plastika – Polioksimetilen (POM) injekcijski prešani i ekstruzijski materijali – 2. dio: Priprema ispitnih uzoraka i određivanje svojstava (ISO 9988-2:2006; EN ISO 9988-2:2015)  
Plastics – Polyoxymethylene (POM) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 9988-2:2006; EN ISO 9988-2:2015)

HRN EN 13765:2015 en pr  
Plastomerna višeslojna neumrežena crijeva i crijevni pribori za prijenos ugljikovodika, otapala i kemikalija – Specifikacija (EN 13765:2010+A1:2015)  
Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals – Specification (EN 13765:2010+A1:2015)

HRN EN ISO 13894-1:2015 en pr  
Visokotlačni dekorativni laminati – Kompozitni elementi – 1. dio: Metode ispitivanja (ISO 13894-1:2000; EN ISO 13894-1:2015)  
High-pressure decorative laminates – Composite elements – Part 1: Test methods (ISO 13894-1:2000; EN ISO 13894-1:2015)

HRN EN ISO 13894-2:2015 en pr  
Visokotlačni dekorativni laminati – Kompozitni elementi – 2. dio: Specifikacije za kompozitne elemente s drvnim podlogama za unutarnju primjenu (ISO 13894-2:2005; EN ISO 13894-2:2015)  
High-pressure decorative laminates – Composite elements – Part 2: Specifications for composite elements with wood-based substrates for interior use (ISO 13894-2:2005; EN ISO 13894-2:2015)

HRN EN ISO 16396-1:2015 en pr  
Plastika – Poliamidni (PA) materijali za injekcijsko prešanje i ekstruziju – 1. dio: Sustav oznaka, označavanje proizvoda i osnove specifikacija (ISO 16396-1:2015; EN ISO 16396-1:2015)  
Plastics – Polyamide (PA) moulding and extrusion materials – Part 1: Designation system, marking of products and basis for specifications (ISO 16396-1:2015; EN ISO 16396-1:2015)

HRN EN ISO 19069-1:2015 en pr  
Plastika – Prešani polipropilen (PP) i ekstrudirani materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 19069-1:2015; EN ISO 19069-1:2015)  
Plastics – Polypropylene (PP) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 19069-1:2015; EN ISO 19069-1:2015)

HRN EN ISO 22007-6:2015 en pr  
Plastika – Određivanje toplinske provodljivosti i toplinske difuznosti – 6. dio: Komparativna metoda za određivanje niske toplinske provodljivosti primjenom tehnike temperaturne modulacije (ISO 22007-6:2014; EN ISO 22007-6:2015)  
Plastics – Determination of thermal conductivity and thermal diffusivity – Part 6: Comparative method for low thermal conductivities using a temperature-modulation technique (ISO 22007-6:2014; EN ISO 22007-6:2015)

HRN EN ISO 28017:2012/A1:2015 en pr  
Gumena crijeva i crijevni pribori ojačani žicom ili tekstilom za primjenu u jaruženju – Specifikacija (ISO 28017:2011/Amd 1:2015; EN ISO 28017:2011/A1:2015)  
Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications – Specification (ISO 28017:2011/Amd 1:2015; EN ISO 28017:2011/A1:2015)

## HZN/TO 532, *Dimnjaci*

HRN EN 13384-1:2015 en pr  
Dimnjaci – Metode toplinskog proračuna i proračuna dinamike fluida – 1. dio: Dimnjaci s jednim uređajem za loženje (EN 13384-1:2015)  
Chimneys – Thermal and fluid dynamic calculation methods – Part 1: Chimneys serving one heating appliance (EN 13384-1:2015)

HRN EN 13384-2:2015 en pr  
Dimnjaci – Metode toplinskog proračuna i proračuna dinamike fluida – 2. dio: Dimnjaci s više uređaja za loženje (EN 13384-2:2015)  
Chimneys – Thermal and fluid dynamic calculation methods – Part 2: Chimneys serving more than one heating appliance (EN 13384-2:2015)

HRN EN 16497-1:2015 en pr  
Dimnjaci – Sustavi dimnjaka od betona – 1. dio: Primjena kod neodražnih sustava (EN 16497-1:2015)  
Chimneys – Concrete System Chimneys – Part 1: Non-balanced flue applications (EN 16497-1:2015)

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

HRN EN 12972:2015 en pr  
Spremnici za prijevoz opasnih tvari – Ispitivanje, inspekcija i označavanje metalnih spremnika (EN 12972:2015)  
Tanks for transport of dangerous goods – Testing, inspection and marking of metallic tanks (EN 12972:2015)

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

HRN EN 13697:2015 en pr  
Kemijski dezinficijensi i antiseptici – Kvantitativni test na neporoznoj površini za vrednovanje baktericidne i/ili fungicidne djelotvornosti kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u područjima prehrane, industrije, domaćinstava i ustanova – Metoda testiranja i zahtjevi bez mehaničkog djelovanja (faza 2, korak 2) (EN 13697:2015)  
Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements without mechanical action (phase 2, step 2) (EN 13697:2015)

HRN EN 16615:2015 en pr  
Kemijski dezinficijensi i antiseptici – Kvantitativni test za procjenu baktericidne djelotvornosti ili djelotvornosti protiv kvasaca mehaničkim djelovanjem brisanjem na neporoznim površinama koji se upotrebljavaju u medicini (ispitivanje na 4 zone) – Metoda ispitivanja i zahtjevi (EN 16615:2015)  
Chemical disinfectants and antiseptics – Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4- field test) – Test method and requirements (EN 16615:2015)

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

HRN EN ISO 11011:2015 en pr  
Komprimirani zrak – Energijska učinkovitost – Ocjenjivanje (ISO 11011:2013; EN ISO 11011:2015)  
Compressed air – Energy efficiency – Assessment (ISO 11011:2013; EN ISO 11011:2015)

HRN EN ISO 15957:2015 en pr  
Ispitivanje opreme za pročišćavanje zraka pri opterećenju prašinom (ISO 15957:2015; EN ISO 15957:2015)  
Test dusts for evaluating air cleaning equipment (ISO 15957:2015; EN ISO 15957:2015)

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

HRN EN ISO 1891-2:2015 en pr  
Spojni elementi – Nazivlje – 2. dio: Terminološki rječnik i definicije za prevlake (ISO 1891-2:2014; EN ISO 1891-2:2014)  
Fasteners – Terminology – Part 2: Vocabulary and definitions for coatings (ISO 1891-2:2014; EN ISO 1891-2:2014)

HRN EN ISO 10664:2015 en pr  
Značajke šesterokrakog upusta za ključ na vijcima (EN ISO 10664:2014)  
Hexalobular internal driving feature for bolts and screws (EN ISO 10664:2014)

HRN EN 14399-1:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 1. dio: Opći zahtjevi (EN 14399-1:2015)  
High strength structural bolting assemblies for preloading – Part 1: General requirements (EN 14399-1:2015)

HRN EN 14399-2:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 2. dio: Prikladnost za predopterećenje (EN 14399-2:2015)  
High-strength structural bolting assemblies for preloading – Part 2: Suitability for preloading (EN 14399-2:2015)

HRN EN 14399-3:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 3. dio: Sustav HR – Spojevi vijka sa šesterokutnom glavom i šesterokutne matice (EN 14399-3:2015)  
High-strength structural bolting assemblies for preloading – Part 3: System HR – Hexagon bolt and nut assemblies (EN 14399-3:2015)

HRN EN 14399-4:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 4. dio: Sustav HV – Spojevi vijka sa šesterokutnom glavom i šesterokutne matice (EN 14399-4:2015)  
High-strength structural bolting assemblies for preloading – Part 4: System HV – Hexagon bolt and nut assemblies (EN 14399-4:2015)

HRN EN 14399-5:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 5. dio: Ravne podložne pločice (EN 14399-5:2015)  
High-strength structural bolting assemblies for preloading – Part 5: Plain washers (EN 14399-5:2015)

HRN EN 14399-6:2015 en pr  
Visokočvrsti konstrukcijski predopterećeni vijčani spojevi – 6. dio: Ravne podložne pločice, skošene (EN 14399-6:2015)  
High-strength structural bolting assemblies for preloading – Part 6: Plain chamfered washers (EN 14399-6:2015)

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

HRN EN 16515:2015 en pr  
Očuvanje kulturne baštine – Smjernice za utvrđivanje svojstava prirodnog kamena upotrijebljenog u kulturnoj baštini (EN 16515:2015)  
Conservation of Cultural Heritage – Guidelines to characterize natural stone used in cultural heritage (EN 16515:2015)

### **HZN/TO 548, Konstrukcijski eurokodovi**

HRN EN 1994-1-2:2012/A1:2015 hr pp  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-2: Opća pravila – Proračun konstrukcija na djelovanje požara (EN 1994-1-2:2005/A1:2014)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-2: General rules – Structural fire design (EN 1994-1-2:2005/A1:2014)

HRN EN 1996-1-1:2012/Ispr.1:2015 hr izv  
Eurokod 6: Projektiranje zidanih konstrukcija – Dio 1-1: Opća pravila za armirane i nearmirane zidane konstrukcije Eurocode 6: Design of masonry structures – Part 1-1: General rules for reinforced and unreinforced masonry structures

HRN EN 1998-1:2011/Ispr.2:2015 hr izv  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 1. dio: Opća pravila, potresna djelovanja i pravila za zgrade Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings

HRN EN 1999-1-1:2015 hr pp  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila (EN 1999-1-1:2007+A1:2009+A2:2013)  
Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules (EN 1999-1-1:2007+A1:2009+A2:2013)

HRN EN 1999-1-1:2015/NA:2015 hr-en izv  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila – Nacionalni dodatak Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules – National Annex

HRN EN 1999-1-2:2015 hr pp  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara (EN 1999-1-2:2007+AC:2009)  
Eurocode 9: Design of aluminium structures – Part 1-2: Structural fire design (EN 1999-1-2:2007+AC:2009)

HRN EN 1999-1-2:2015/NA:2015 hr-en izv  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara – Nacionalni dodatak Eurocode 9: Design of aluminium structures – Part 1-2: Structural fire design – National Annex

HRN EN 1999-1-3:2015 hr pp  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor (EN 1999-1-3:2007+A1:2011)  
Eurocode 9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue (EN 1999-1-3:2007+A1:2011)

HRN EN 1999-1-3:2015/NA:2015 hr-en izv  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor – Nacionalni dodatak Eurocode 9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue – National Annex

HRN EN 1999-1-4:2015 hr pp  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi (EN 1999-1-4:2007+AC:2009+A1:2011)  
Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting (EN 1999-1-4:2007+AC:2009+A1:2011)

HRN EN 1999-1-4:2015/NA:2015 hr-en izv  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi – Nacionalni dodatak Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting – National Annex

HRN EN 1999-1-5:2015 hr pp  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije (EN 1999-1-5:2007+AC:2009)  
Eurocode 9: Design of aluminium structures – Part 1-5: Shell structures (EN 1999-1-5:2007+AC:2009)

HRN EN 1999-1-5:2015/NA:2015 hr-en izv  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije – Nacionalni dodatak Eurocode 9: Design of aluminium structures – Part 1-5: Shell structures – National Annex

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

HRN EN 1018:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kalcijev karbonat (EN 1018:2013+A1:2015)  
Chemicals used for treatment of water intended for human consumption – Calcium carbonate (EN 1018:2013+A1:2015)

HRN EN 12876:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kisik (EN 12876:2015)  
Chemicals used for treatment of water intended for human consumption – Oxygen (EN 12876:2015)

HRN EN 12926:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Natrijev peroksidisulfat (EN 12926:2015)  
Chemicals used for treatment of water intended for human consumption – Sodium peroxodisulfate (EN 12926:2015)

HRN EN 12931:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Bezvodni natrijev diklorizocijanurat (EN 12931:2015)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Sodium dichloroisocyanurate, anhydrous (EN 12931:2015)

HRN EN 12932:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Natrijev diklorizocijanurat dihidrat (EN 12932:2015)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Sodium dichloroisocyanurate, dihydrate (EN 12932:2015)

HRN EN 12933:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Triklorizocijanuratna kiselina (EN 12933:2015)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Trichloroisocyanuric acid (EN 12933:2015)

HRN EN 13176:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Etanol (EN 13176:2015)  
Chemicals used for treatment of water intended for human consumption – Ethanol (EN 13176:2015)

HRN EN 13194:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Octena kiselina (EN 13194:2015)  
Chemicals used for treatment of water intended for human consumption – Acetic Acid (EN 13194:2015)

HRN EN 15030:2015 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Soli srebra za povremenu uporabu (EN 15030:2012+A1:2015)  
Chemicals used for treatment of water intended for human consumption – Silver salts for intermittent use (EN 15030:2012+A1:2015)

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

HRN ISO 6707-1:2015 en pr  
Zgrade i inženjerske građevine – Rječnik – 1. dio: Opći nazivi (ISO 6707-1:2014)  
Buildings and civil engineering works – Vocabulary – Part 1: General terms (ISO 6707-1:2014)

HRN ISO 6707-2:2015 en pr  
Zgrade i inženjerske građevine – Rječnik – 2. dio: Nazivi koji se odnose na ugovaranje (ISO 6707-2:2014)  
Buildings and civil engineering works – Vocabulary – Part 2: Contract terms (ISO 6707-2:2014)

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

HRN EN 12050-1:2015 en pr  
Postrojenja za podizanje otpadnih voda za zgrade i terene – 1. dio: Postrojenja za podizanje otpadnih voda koja sadrže fekalne tvari (EN 12050-1:2015)  
Wastewater lifting plants for buildings and sites – Part 1: Lifting plants for wastewater containing faecal matter (EN 12050-1:2015)

HRN EN 12050-2:2015 en pr  
Postrojenja za podizanje otpadnih voda za zgrade i terene – 2. dio: Postrojenja za podizanje otpadnih voda bez fekalija (EN 12050-2:2015)  
Wastewater lifting plants for buildings and sites – Part 2: Lifting plants for faecal-free wastewater (EN 12050-2:2015)

HRN EN 12050-3:2015 en pr  
Postrojenja za podizanje otpadnih voda za zgrade i terene – 3. dio: Postrojenja za podizanje otpadnih voda za ograničenu primjenu (EN 12050-3:2015)  
Wastewater lifting plants for buildings and sites – Part 3: Lifting plants for limited applications (EN 12050-3:2015)

HRN EN 12050-4:2015 en pr  
Postrojenja za podizanje otpadnih voda za zgrade i terene – 4. dio: Nepovratni zaporni uređaji za otpadne vode bez fekalija i otpadne vode koje sadrže fekalne tvari (EN 12050-4:2015)  
Wastewater lifting plants for buildings and sites – Part 4: Non-return valves for faecal-free wastewater and wastewater containing faecal matter (EN 12050-4:2015)

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

HRN EN ISO 10993-3:2015 en pr  
Biološka procjena medicinskih proizvoda – 3. dio: Ispitivanja za genotoksičnost, karcinogenetiku i reproduktivnu toksičnost (ISO 10993-3:2014; EN ISO 10993-3:2014)

Biological evaluation of medical devices – Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity (ISO 10993-3:2014; EN ISO 10993-3:2014)

HRI CEN/TR 14060:2015 en pr  
Slijedivost medicinskih sredstava omogućena na temelju jedinstvene identifikacije (UDI) (CEN/CLC/TR 14060:2014)  
Medical device traceability enabled by unique device identification (UDI) (CEN/CLC/TR 14060:2014)

HRN EN 16442:2015 en pr  
Kabinet za pohranu dezinficiranih termolabilnih endoskopa u kontroliranim uvjetima okoliša (EN 16442:2015)  
Controlled environment storage cabinet for processed thermolabile endoscopes (EN 16442:2015)

## **HZN/TO 557, Zaštitna odjeća**

HRN EN 16523-1:2015 en pr  
Određivanje otpornosti materijala na upijanje kemikalija – 1. dio: Upijanje tekućih kemikalija u uvjetima stalnog dodira (EN 16523-1:2015)  
Determination of material resistance to permeation by chemicals – Part 1: Permeation by liquid chemical under conditions of continuous contact (EN 16523-1:2015)

HRN EN 16523-2:2015 en pr  
Određivanje otpornosti materijala na upijanje kemikalija – 2. dio: Upijanje plinovitih kemikalija u uvjetima stalnog dodira (EN 16523-2:2015)  
Determination of material resistance to permeation by chemicals – Part 2: Permeation by gaseous chemical under conditions of continuous contact (EN 16523-2:2015)

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

HRN EN 14533:2015 en pr  
Tekstil i tekstilni proizvodi – Ponašanje posteljnog rublja pri gorenju – Plan razredbe (EN 14533:2015)  
Textiles and textile products – Burning behaviour of bedding items – Classification scheme (EN 14533:2015)

HRN EN 16653:2015 en pr  
Plošni tekstil naslojen gumom ili plastikom – Određivanje sile kidanja šava (iglom) – Metoda ispitivanja (EN 16653:2015)  
Rubber or plastics-coated fabrics – Determination of stitch tear force (with needle) – Test method (EN 16653:2015)

HRN EN ISO 18103:2015 en pr  
Označavanje finih vunjenih tkanina – Zahtjevi za definiciju Super S koda (ISO 18103:2015; EN ISO 18103:2015)  
Superfine woven wool fabric labelling – Requirements for Super S code definition (ISO 18103:2015; EN ISO 18103:2015)

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

HRN EN 764-1:2015 en pr  
Tlačna oprema – 1. dio: Terminološki rječnik (HRN EN 764-1:2015)  
Pressure equipment – Part 1: Vocabulary (HRN EN 764-1:2015)

HRN EN 13445-3:2014/A1:2015 en pr  
Neložene tlačne posude – 3. dio: Projektiranje (EN 13445-3:2014/A1:2015)  
Unfired pressure vessels – Part 3: Design (EN 13445-3:2014/A1:2015)

HRN EN 13445-4:2015 en pr  
Neložene tlačne posude – 4. dio: Proizvodnja (EN 13445-4:2014)  
Unfired pressure vessels – Part 4: Fabrication (EN 13445-4:2014)

HRN EN 13445-8:2014/A1:2015 en pr  
Neložene tlačne posude – 8. dio: Dodatni zahtjevi za tlačne posude od aluminija i aluminijevih legura (EN 13445-8:2014/A1:2014)  
Unfired pressure vessels – Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys (EN 13445-8:2014/A1:2014)

HRN EN 13953:2015 en pr  
Oprema i pribor za UNP – Sigurnosni ventili prenosivih, ponovno punjivih boca za ukapljeni naftni plin (UNP) (EN 13953:2015)  
LPG equipment and accessories – Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG) (EN 13953:2015)

HRN EN 14912:2015 en pr  
Oprema i pribor za UNP – Pregled i održavanje ventila boca za UNP tijekom periodičnog pregleda boca (EN 14912:2015)  
LPG equipment and accessories – Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders (EN 14912:2015)

HRN EN 16509:2015 en pr  
Prenosive plinske boce – Jednokratno punjive, male prenosive čelične boce, kapaciteta do i uključivo 120 ml za komprimirane ili ukapljene plinove (kompaktne boce) – Projektiranje izvedba, punjenje i ispitivanje (EN 16509:2014)  
Transportable gas cylinders – Non-refillable, small transportable, steel cylinders of capacities up to and including 120 ml containing compressed or liquefied gases (compact cylinders) – Design, construction, filling and testing (EN 16509:2014)

HRN EN ISO 25760:2015 en pr  
Plinske boce – Radni postupci za sigurno uklanjanje ventila s boca (ISO 25760:2009; EN ISO 25760:2015)  
Gas cylinders – Operational procedures for the safe removal of valves from gas cylinders (ISO 25760:2009; EN ISO 25760:2015)

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

HRN EN 1870-17:2015 en pr  
Sigurnost strojeva za obradu drveta – Kružne pile – 17. dio: Ručne horizontalne kružne pile s jednim listom (ručni radijalni nosač pile) (EN 1870-17:2012+A1:2015)  
Safety of woodworking machines – Circular sawing machines – Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws) (EN 1870-17:2012+A1:2015)

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

HRN EN ISO 9902-1:2004/A2:2015 en pr  
Tekstilni strojevi – Određivanje emisije buke – 1. dio: Opći zahtjevi (ISO 9902-1:2001/Amd 2:2014; EN ISO 9902-1:2001/A2:2014)  
Textile machinery – Noise test code – Part 1: Common requirements (ISO 9902-1:2001/Amd 2:2014; EN ISO 9902-1:2001/A2:2014)

HRN EN 14462:2015 en pr  
Oprema za površinsku obradu – Pravila za ispitivanje buke opreme za površinsku obradu uključujući i pomoćnu opremu za rukovanje – Razred točnosti 2 i 3 (EN 14462:2015)  
Surface treatment equipment – Noise test code for surface treatment equipment including its ancillary handling equipment – Accuracy grades 2 and 3 (EN 14462:2015)

HRN EN 15429-3:2015 en pr  
Sweepers – Part 3: Efficiency of particulate matter collection – Testing and Evaluation (EN 15429-3:2015)

HRN EN 15429-4:2015 en pr  
Sweepers – Part 4: Symbols for operator controls and other displays (EN 15429-4:2015)

HRN EN ISO 23771:2015 en pr  
Tekstilni strojevi – Upute za projektiranje tekstilnih strojeva sa smanjenom emisijom buke (ISO 23771:2015; EN ISO 23771:2015)  
Textile machinery – Guide to the design of textile machinery for reduction of the noise emissions (ISO 23771:2015; EN ISO 23771:2015)

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

HRN EN ISO 5555:2004/A1:2015 en pr  
Životinjske i biljne masti i ulja – Uzorkovanje – Amandman 1: Fleksibilni spremnici (ISO 5555:2001/Amd 1:2014; EN ISO 5555:2001/A1:2014)  
Animal and vegetable fats and oils – Sampling – Amendment 1: Flexitanks (ISO 5555:2001/Amd 1:2014; EN ISO 5555:2001/A1:2014)

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

HRN EN 14468-1:2015 en pr  
Stolni tenis – 1. dio: Stolovi za stolni tenis, funkcionalni i sigurnosni zahtjevi, metode ispitivanja (EN 14468-1:2015)  
Table tennis – Part 1: Table tennis tables, functional and safety requirements, test methods (EN 14468-1:2015)

HRN EN 14468-2:2015 en pr  
Stolni tenis – 2. dio: Nosači za mrežu – Zahtjevi i metode ispitivanja (EN 14468-2:2015)  
Table tennis – Part 2: Posts for net assemblies – Requirements and test methods (EN 14468-2:2015)

HRN EN 14619:2015 en pr  
Sportska oprema za koturaljanje – Romobili – Sigurnosni zahtjevi i metode ispitivanja (EN 14619:2015)  
Roller sports equipment – Kick scooters – Safety requirements and test methods (EN 14619:2015)

### **HZN/TO E8, Sustavski vidovi opskrbe električnom energijom**

HRN EN 50160:2012/A1:2015 en pr  
Naponske karakteristike električne energije iz javnih distribucijskih mreža (EN 50160:2010/A1:2015)  
Voltage characteristics of electricity supplied by public electricity networks (EN 50160:2010/A1:2015)

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

HRN EN 50121-1:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – 1. dio: Općenito (EN 50121-1:2015)  
Railway applications – Electromagnetic compatibility – Part 1: General (EN 50121-1:2015)

HRN EN 50121-2:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – 2. dio: Emisija cjelokupnoga željezničkog sustava u vanjski svijet (EN 50121-2:2015)  
Railway applications – Electromagnetic compatibility – Part 2: Emission of the whole railway system to the outside world (EN 50121-2:2015)

HRN EN 50121-3-1:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-1: Željeznička vozila – Vlak i cijelo vozilo (EN 50121-3-1:2015)  
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle (EN 50121-3-1:2015)

HRN EN 50121-3-2:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-2: Željeznička vozila – Uređaji na vozilu (EN 50121-3-2:2015)  
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus (EN 50121-3-2:2015)

HRN EN 50121-4:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – 4. dio: Emisija i otpornost signalnih i telekomunikacijskih uređaja (EN 50121-4:2015)  
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus (EN 50121-4:2015)

HRN EN 50121-5:2015 en pr  
Željeznički sustav – Elektromagnetska kompatibilnost – 5. dio: Emisija i otpornost stabilnih postrojenja za napajanje i uređaja (EN 50121-5:2015)  
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus (EN 50121-5:2015)

HRN EN 50500:2008/A1:2015 en pr  
Metode mjerenja razina magnetskih polja nastalih zbog električnih i električnih uređaja u željezničkom okruženju u odnosu na ljudsku izloženost (EN 50500:2008/A1:2015)  
Measurement procedures of magnetic field levels generated by electronic and electrical apparatus in the railway environment with respect to human exposure (EN 50500:2008/A1:2015)

HRN EN 61375-2-5:2015 en pr  
Elektronička oprema za željeznice – Komunikacijska mreža vlaka (TCN) – Dio 2-5: Ethernet okosnica vlaka (IEC 61375-2-5:2014; EN 61375-2-5:2015)  
Electronic railway equipment – Train communication network (TCN) – Part 2-5: Ethernet train backbone (IEC 61375-2-5:2014; EN 61375-2-5:2015)

### **HZN/TO E10, Fluidi za primjenu u elektrotehnici**

HRN EN 62021-3:2015 en pr  
Izolacijske tekućine – Određivanje kiselosti – 3. dio: Metode ispitivanja ne mineralnih izolacijskih ulja (IEC 62021-3:2014; EN 62021-3:2014)  
Insulating liquids – Determination of acidity – Part 3: Test methods for non mineral insulating oils (IEC 62021-3:2014; EN 62021-3:2014)

## HZN/TO E17, Sklopni i upravljački uređaji

HRN EN 61439-5:2015/Ispr.1:2015 en pr  
Niskonaponski sklopni blokovi – 5. dio: Blokovi za distribuciju u javnim mrežama (EN 61439-5:2015/AC:2015)  
Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks (EN 61439-5:2015/AC:2015)

HRN EN 62026-3:2015 en pr  
Niskonaponska sklopna aparatura – Sučelja prema regulacijskomu uređaju (CDIs) – 3. dio: Komunikacijski protokol regulacijskog uređaja DeviceNet (IEC 62026-3:2014; EN 62026-3:2015)  
Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 3: DeviceNet (IEC 62026-3:2014; EN 62026-3:2015)

HRN EN 62271-104:2015 en pr  
Visokonaponska sklopna aparatura – 104. dio: Sklopke izmjenične struje za nazivne napone 52 kV i više (IEC 62271-104:2015; EN 62271-104:2015)  
High-voltage switchgear and controlgear – Part 104: Alternating current switches for rated voltages higher than 52 kV (IEC 62271-104:2015; EN 62271-104:2015)

## HZN/TO E20, Električni kabeli

HRN EN 50393:2015 en pr  
Metode ispitivanja i zahtjevi za pribor za distribucijske kabele nazivnog napona 0,6/1,0 (1,2) kV (EN 50393:2015)  
Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV (EN 50393:2015)

HRN EN 60702-1:2007/A1:2015 en pr  
Kabeli s mineralnom izolacijom i njihovi završeci nazivnog napona koji ne prelazi 750 V – 1. dio: Kabeli (IEC 60702-1:2002/am1:2015; EN 60702-1:2002/A1:2015)  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V – Part 1: Cables (IEC 60702-1:2002/am1:2015; EN 60702-1:2002/A1:2015)

HRN EN 60702-2:2007/A1:2015 en pr  
Kabeli s mineralnom izolacijom i njihovi završeci nazivnog napona koji ne prelazi 750 V – 2. dio: Završeci (IEC 60702-2:2002/am1:2015; EN 60702-2:2002/A1:2015)  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V – Part 2: Terminations (IEC 60702-2:2002/am1:2015; EN 60702-2:2002/A1:2015)

## HZN/TO E22, Energetska elektronika

HRN EN 50598-3:2015 en pr  
Ekološko projektiranje za elektromotorne sustave, motorske pokretače, energetske elektroniku i opremu koju pogone – 3. dio: Kvantitativni ekološki pristup projektu kroz procjenu životnog ciklusa, uključujući pravila kategorije proizvoda i sadržaj izjave o zaštiti okoliša (EN 50598-3:2015)  
Ecodesign for power drive systems, motor starters, power electronics and their driven applications – Part 3: Quantitative eco design approach through life cycle assessment including product category rules and the content of environmental declarations (EN 50598-3:2015)

HRN EN 62747:2015/Ispr.1:2015 en pr  
Nazivlje za pretvarače s naponskim ulazom (VSC) za visokonaponske sustave istosmjerne struje (HVDC) (IEC 62747:2014/Corr.1:2015; EN 62747:2014/AC:2015)  
Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems (IEC 62747:2014/Corr.1:2015; EN 62747:2014/AC:2015)

## HZN/TO E23, Električni instalacijski pribor

HRN EN 50250:2013/A1:2015 en pr  
Pretvarački adaptori za primjenu u industriji (EN 50250:2002/A1:2015)  
Conversion adaptors for industrial use (EN 50250:2002/A1:2015)

HRN EN 61008-1:2012/A1:2015 en pr  
Strujne zaštitne sklopke bez združene nadstrujne zaštite za kućanstvo i slične primjene (RCCB-i) – 1. dio: Opća pravila (IEC 61008-1:2010/am1:2012, MOD; EN 61008-1:2012/A1:2014)  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules (IEC 61008-1:2010/am1:2012, MOD; EN 61008-1:2012/A1:2014)

HRN EN 61008-1:2012/A2:2015 en pr  
Strujne zaštitne sklopke bez združene nadstrujne zaštite za kućanstvo i slične primjene (RCCB-i) – 1. dio: Opća pravila (IEC 61008-1:2010/am2:2013, MOD; EN 61008-1:2012/A2:2014)  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules (IEC 61008-1:2010/am2:2013, MOD; EN 61008-1:2012/A2:2014)

HRN EN 61009-1:2012/A1:2015 en pr  
Strujne zaštitne sklopke sa združenom nadstrujnom zaštitom za kućanstvo i slične primjene (RCBO-i) – 1. dio: Opća pravila (IEC 61009-1:2010/am1:2012, MOD; EN 61009-1:2012/A1:2014)  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules (IEC 61009-1:2010/am1:2012, MOD; EN 61009-1:2012/A1:2014)

HRN EN 61009-1:2012/A2:2015 en pr  
Strujne zaštitne sklopke sa združenom nadstrujnom zaštitom za kućanstvo i slične primjene (RCBO-i) – 1. dio: Opća pravila (IEC 61009-1:2010/A2:2013, MOD; EN 61009-1:2012/A2:2014)  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules (IEC 61009-1:2010/A2:2013, MOD; EN 61009-1:2012/A2:2014)

HRN EN 62275:2015 en pr  
Sustavi za vođenje kabela – Kableske vezice za električne instalacije (IEC 62275:2013, MOD; EN 62275:2015)  
Cable management systems – Cable ties for electrical installations (IEC 62275:2013, MOD; EN 62275:2015)

HRN HD 62640:2015 en pr  
Strujne zaštitne sklopke sa ili bez nadstrujne zaštite za utičnice za kućanstvo i slične primjene (IEC 62640:2011, MOD; HD 62640:2015)  
Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses (IEC 62640:2011, MOD; HD 62640:2015)

## HZN/TO E31, Eksplozivne atmosfere

HRN EN 60079-10-2:2015 en pr  
Eksplozivne atmosfere – Dio 10-2: Klasifikacija ugroženih prostora – Eksplozivne atmosfere prašina (IEC 60079-10-2:2015; EN 60079-10-2:2015)  
Explosive atmospheres – Part 10-2: Classification of areas – Explosive dust atmospheres (IEC 60079-10-2:2015; EN 60079-10-2:2015)

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

HRN EN 60400:2009/A2:2015 en pr  
Grla za fluorescentne cijevi i startere (IEC 60400:2008/am2:2014; EN 60400:2008/A2:2014)  
Lampholders for tubular fluorescent lamps and starterholders (IEC 60400:2008/am2:2014; EN 60400:2008/A2:2014)

HRN EN 60598-2-22:2015 en pr  
Svjetiljke – Dio 2-22: Posebni zahtjevi – Svjetiljke za rasvjetu u slučaju opasnosti (IEC 60598-2-22:2014; EN 60598-2-22:2014)  
Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (IEC 60598-2-22:2014; EN 60598-2-22:2014)

HRN EN 60598-2-22:2015/Ispr.1:2015 en pr  
Svjetiljke – Dio 2-22: Posebni zahtjevi – Svjetiljke za rasvjetu u slučaju opasnosti (EN 60598-2-22:2014/AC:2015)  
Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (EN 60598-2-22:2014/AC:2015)

HRN EN 60630:2008/A7:2015 en pr  
Maksimalne konture za žarulje sa žarnom niti (IEC 60630:1994/am7:2014; EN 60630:1998/A7:2015)  
Maximum lamp outlines for incandescent lamps (IEC 60630:1994/am7:2014; EN 60630:1998/A7:2015)

HRN EN 60809:2015 en pr  
Žarulje za cestovna vozila – Dimenzije, električni i svjetlosni zahtjevi (IEC 60809:2014; EN 60809:2015)  
Lamps for road vehicles – Dimensional, electrical and luminous requirements (IEC 60809:2014; EN 60809:2015)

HRN EN 60810:2015 en pr  
Žarulje za cestovna vozila – Izvedbeni zahtjevi (IEC 60810:2014; EN 60810:2015)  
Lamps for road vehicles – Performance requirements (IEC 60810:2014; EN 60810:2015)

HRN EN 62504:2015 en pr  
Opća rasvjeta – Svjetleće diode (LED) i pripadajuća oprema – Nazivi i definicije (IEC 62504:2014; EN 62504:2014)  
General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions (IEC 62504:2014; EN 62504:2014)

HRN EN 62776:2015 en pr  
Žarulje sa svjetlećim diodama s dva podnoška konstruirani za ugradnju na mjesto linearnih fluorescentnih cijevi – Sigurnosne specifikacije (IEC 62776:2014; EN 62776:2015)  
Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety specifications (IEC 62776:2014; EN 62776:2015)

### **HZN/TO E45, Nuklearna instrumentacija**

HRN EN 60987:2015 en pr  
Nuklearne elektrane – Instrumentacija i upravljanje važni za sigurnost – Projektni zahtjevi za hardver računalnog sustava (IEC 60987:2007+am1:2013; EN 60987:2015)  
Nuclear power plants – Instrumentation and control important to safety – Hardware design requirements for computer-based systems (IEC 60987:2007+am1:2013; EN 60987:2015)

HRN EN 61577-4:2015 en pr  
Instrumentacija u zaštiti od zračenja – Instrumentacija za mjerenje radona i produkata raspada radona – 4. dio: Oprema za proizvodnju referentne atmosfere koja sadrži izotope radona i njihove raspadne produkte (STAR) (IEC 61577-4:2009; EN 61577-4:2014)  
Radiation protection instrumentation – Radon and radon decay product measuring instruments – Part 4: Equipment for the production of reference atmospheres containing radon isotopes and their decay products (STAR) (IEC 61577-4:2009; EN 61577-4:2014)

HRN EN 62241:2015 en pr  
Nuklearne elektrane – Glavna upravljačka soba – Funkcije alarma i prezentacije (IEC 62241:2004; EN 62241:2015)  
Nuclear power plants – Main control room – Alarm functions and presentation (IEC 62241:2004; EN 62241:2015)

### **HZN/TO E55, Žice za namote**

HRN EN 60317-40:2015 en pr  
Specifikacije pojedinih vrsta žica za namote – 40. dio: Nelakirana ili lakirana profilna bakrena žica, opletena staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 200 (IEC 60317-40:2015; EN 60317-40:2015)  
Specifications for particular types of winding wires – Part 40: Glass-fibre braided resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200 (IEC 60317-40:2015; EN 60317-40:2015)

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

HRN EN 62740:2015 en pr  
Analiza uzorka (RCA) (IEC 62740:2015; EN 62740:2015)  
Root cause analysis (RCA) (IEC 62740:2015; EN 62740:2015)

HRN EN 62741:2015 en pr  
Dokazivanje zahtjeva za pouzdanost – Slučaj pouzdanost (IEC 62741:2015; EN 62741:2015)  
Demonstration of dependability requirements – The dependability case (IEC 62741:2015; EN 62741:2015)

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

HRN EN 62325-451-3:2015 en pr  
Okvir za komunikaciju na tržištu električnom energijom – Dio 451-3: Poslovni proces dodjele prijenosnih kapaciteta (sa ili bez dražbe) i odgovarajući modeli za europsko tržište (IEC 62325-451-3:2014; EN 62325-451-3:2014)  
Framework for energy market communications – Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market (IEC 62325-451-3:2014; EN 62325-451-3:2014)

HRN EN 62351-3:2015 en pr  
Upravljanje energetskim sustavima i povezana razmjena podataka – Sigurnost podataka i komunikacija – 3. dio: Sigurnost komunikacijske mreže i sustava – Profili koji uključuju TCP/IP (IEC 62351-3:2014; EN 62351-3:2014)  
Power systems management and associated information exchange – Data and communications security – Part 3: Communication network and system security – Profiles including TCP/IP (IEC 62351-3:2014; EN 62351-3:2014)

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

HRN EN 60299:2015 en pr  
Kućanski električni pokrivači – Postupak mjerenja radnih značajka (IEC 60299:2014; EN 60299:2014)  
Household electric blankets – Methods for measuring performance (IEC 60299:2014; EN 60299:2014)

HRN EN 61255:2015 en pr  
Električni grijajući jastuci za kućanstvo – Metode mjerenja značajka (IEC 61255:2014; EN 61255:2014)  
Household electric heating pads – Methods for measuring performance (IEC 61255:2014; EN 61255:2014)

HRN EN 61591:2008/A12:2015 en pr  
Kućanske nape štednjaka i drugi uređaji za izvlačenje plinova izgaranja – Ispitne metode za mjerenje radnih značajka (EN 61591:1997/A12:2015)  
Household range hoods and other cooking fume extractors – Methods for measuring performance (EN 61591:1997/A12:2015)

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

HRI CLC/TR 50417:2015 en pr  
Sigurnost kućanskih i sličnih električnih aparata – Interpretacije koje se odnose na europske norme serije EN 60335 (CLC/TR 50417:2014)  
Safety of household and similar electrical appliances – Interpretations related to European Standards in the EN 60335 series (CLC/TR 50417:2014)

HRN EN 50615:2015 en pr  
Kućanski i slični električni aparati – Sigurnost – Posebni zahtjevi za naprave za zaštitu od požara i prigušenje za električna kuhala (gornje ploče) (EN 50615:2015)  
Household and similar electrical appliances – Safety – Particular requirements for devices for fire prevention and suppression for electric hobs (cooktops) (EN 50615:2015)

HRN EN 60335-2-11:2011/A1:2015 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-11: Posebni zahtjevi za bubnjaste sušilice (IEC 60335-2-11:2008/am1:2012, MOD; EN 60335-2-11:2010/A1:2015)  
Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers (IEC 60335-2-11:2008/am1:2012, MOD; EN 60335-2-11:2010/A1:2015)

HRN EN 60335-2-4:2011/A1:2015 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-4: Posebni zahtjevi za centrifuge rublja (IEC 60335-2-4:2008/am1:2012; EN 60335-2-4:2010/A1:2015)  
Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors (IEC 60335-2-4:2008/am1:2012; EN 60335-2-4:2010/A1:2015)

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

HRN EN 60601-1:2008/A12:2015 en pr  
Medicinski električni uređaji – 1. dio: Opći zahtjevi za osnovnu sigurnost i bitne radne značajke (EN 60601-1:2006/A12:2014)  
Medical electrical equipment – Part 1: General requirements for basic safety and essential performance (EN 60601-1:2006/A12:2014)

HRN EN 61910-1:2015 en pr  
Medicinski električni uređaji – Dokumentacija o dozi ozračivanja – 1. dio: Strukturirana izvješća o dozi ozračivanja za radiografiju i radioskopiju (IEC 61910-1:2014; EN 61910-1:2014)  
Medical electrical equipment – Radiation dose documentation – Part 1: Radiation dose structured reports for radiography and radioscopy (IEC 61910-1:2014; EN 61910-1:2014)

HRN EN 80601-2-35:2010/Ispr.1:2015 en pr  
Medicinska električna oprema – Dio 2-35: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za grijanje koji upotrebljavaju pokrivače, jastuke i madrace, a namijenjeni su za grijanje u medicinske svrhe (IEC 80601-2-35:2009/Corr.2:2015; EN 80601-2-35:2009/AC:2015)  
Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use (IEC 80601-2-35:2009/Corr.2:2015; EN 80601-2-35:2009/AC:2015)

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

HRN HD 60364-4-42:2012/A1:2015 en pr  
Niskonaponske električne instalacije – Dio 4-42: Sigurnosna zaštita – Zaštita od toplinskih učinaka (IEC 60364-4-42:2010/am1:2014; HD 60364-4-42:2011/A1:2015)  
Low voltage electrical installations – Part 4-42: Protection for safety – Protection against thermal effects (IEC 60364-4-42:2010/am1:2014; HD 60364-4-42:2011/A1:2015)

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

HRN EN 61158-3-1:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-1: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 1 (IEC 61158-3-1:2014; EN 61158-3-1:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-1: Data-link layer service definition – Type 1 elements (IEC 61158-3-1:2014; EN 61158-3-1:2014)

HRN EN 61158-3-12:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-12: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-3-12:2014; EN 61158-3-12:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements (IEC 61158-3-12:2014; EN 61158-3-12:2014)

HRN EN 61158-3-13:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-13: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 13 (IEC 61158-3-13:2014; EN 61158-3-13:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-13: Data-link layer service definition – Type 13 elements (IEC 61158-3-13:2014; EN 61158-3-13:2014)

HRN EN 61158-3-14:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-14: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 14 (IEC 61158-3-14:2014; EN 61158-3-14:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-14: Data-link layer service definition – Type 14 elements (IEC 61158-3-14:2014; EN 61158-3-14:2014)

HRN EN 61158-3-19:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-19: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-3-19:2014; EN 61158-3-19:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements (IEC 61158-3-19:2014; EN 61158-3-19:2014)

HRN EN 61158-3-20:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-20: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 20 (IEC 61158-3-20:2014; EN 61158-3-20:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-20: Data-link layer service definition – Type 20 elements (IEC 61158-3-20:2014; EN 61158-3-20:2014)

HRN EN 61158-3-22:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-22: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 22 (IEC 61158-3-22:2014; EN 61158-3-22:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-22: Data-link layer service definition – Type 22 elements (IEC 61158-3-22:2014; EN 61158-3-22:2014)

HRN EN 61158-3-24:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-24: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 24 (IEC 61158-3-24:2014; EN 61158-3-24:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-24: Data-link layer service definition – Type-24 elements (IEC 61158-3-24:2014; EN 61158-3-24:2014)

HRN EN 61158-3-3:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-3: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 3 (IEC 61158-3-3:2014; EN 61158-3-3:2014)  
Industrial communication networks – Fieldbus specifications – Part 3-3: Data-link layer service definition – Type 3 elements (IEC 61158-3-3:2014; EN 61158-3-3:2014)

HRN EN 61158-4-11:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-11: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 11 (IEC 61158-4-11:2014; EN 61158-4-11:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-11: Data-link layer protocol specification – Type 11 elements (IEC 61158-4-11:2014; EN 61158-4-11:2014)

HRN EN 61158-4-1:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-1: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 1 (IEC 61158-4-1:2014; EN 61158-4-1:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-1: Data-link layer protocol specification – Type 1 elements (IEC 61158-4-1:2014; EN 61158-4-1:2014)

HRN EN 61158-4-12:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-12: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-4-12:2014; EN 61158-4-12:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-12: Data-link layer protocol specification – Type 12 elements (IEC 61158-4-12:2014; EN 61158-4-12:2014)

HRN EN 61158-4-13:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-13: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 13 (IEC 61158-4-13:2014; EN 61158-4-13:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-13: Data-link layer protocol specification – Type 13 elements (IEC 61158-4-13:2014; EN 61158-4-13:2014)

HRN EN 61158-4-14:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-14: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 14 (IEC 61158-4-14:2014; EN 61158-4-14:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-14: Data-link layer protocol specification – Type 14 elements (IEC 61158-4-14:2014; EN 61158-4-14:2014)

HRN EN 61158-4-19:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-19: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-4-19:2014; EN 61158-4-19:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-19: Data-link layer protocol specification – Type 19 elements (IEC 61158-4-19:2014; EN 61158-4-19:2014)

HRN EN 61158-4-20:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-20: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 20 (IEC 61158-4-20:2014; EN 61158-4-20:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-20: Data-link layer protocol specification – Type 20 elements (IEC 61158-4-20:2014; EN 61158-4-20:2014)

HRN EN 61158-4-2:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-2: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-4-2:2014; EN 61158-4-2:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements (IEC 61158-4-2:2014; EN 61158-4-2:2014)

HRN EN 61158-4-22:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-22: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 22 (IEC 61158-4-22:2014; EN 61158-4-22:2014)  
Industrial communication networks – Fieldbus specifications – Part 4-22: Data-link layer protocol specification – Type 22 elements (IEC 61158-4-22:2014; EN 61158-4-22:2014)





HRN EN 61158-6-14:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-14: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 14 (IEC 61158-6-14:2014; EN 61158-6-14:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-14: Application layer protocol specification – Type 14 elements (IEC 61158-6-14:2014; EN 61158-6-14:2014)

HRN EN 61158-6-19:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-19: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 19 (IEC 61158-6-19:2014; EN 61158-6-19:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-19: Application layer protocol specification – Type 19 elements (IEC 61158-6-19:2014; EN 61158-6-19:2014)

HRN EN 61158-6-20:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-20: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 20 (IEC 61158-6-20:2014; EN 61158-6-20:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-20: Application layer protocol specification – Type 20 elements (IEC 61158-6-20:2014; EN 61158-6-20:2014)

HRN EN 61158-6-2:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-2: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 2 (IEC 61158-6-2:2014; EN 61158-6-2:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-2: Application layer protocol specification – Type 2 elements (IEC 61158-6-2:2014; EN 61158-6-2:2014)

HRN EN 61158-6-22:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-22: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 22 (IEC 61158-6-22:2014; EN 61158-6-22:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-22: Application layer protocol specification – Type 22 elements (IEC 61158-6-22:2014; EN 61158-6-22:2014)

HRN EN 61158-6-23:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-23: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 23 (IEC 61158-6-23:2014; EN 61158-6-23:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-23: Application layer protocol specification – Type 23 elements (IEC 61158-6-23:2014; EN 61158-6-23:2014)

HRN EN 61158-6-24:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-24: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 24 (IEC 61158-6-24:2014; EN 61158-6-24:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-24: Application layer protocol specification – Type-24 Elements (IEC 61158-6-24:2014; EN 61158-6-24:2014)

HRN EN 61158-6-3:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-3: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 3 (IEC 61158-6-3:2014; EN 61158-6-3:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-3: Application layer protocol specification – Type 3 elements (IEC 61158-6-3:2014; EN 61158-6-3:2014)

HRN EN 61158-6-4:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-4: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 4 (IEC 61158-6-4:2014; EN 61158-6-4:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-4: Application layer protocol specification – Type 4 elements (IEC 61158-6-4:2014; EN 61158-6-4:2014)

HRN EN 61158-6-5:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-5: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 5 (IEC 61158-6-5:2014; EN 61158-6-5:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-5: Application layer protocol specification – Type 5 elements (IEC 61158-6-5:2014; EN 61158-6-5:2014)

HRN EN 61158-6-9:2015 en pr  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 6-9: Specifikacija protokola aplikacijskog sloja OSI referentnog modela – Elementi tipa 9 (IEC 61158-6-9:2014; EN 61158-6-9:2014)  
Industrial communication networks – Fieldbus specifications – Part 6-9: Application layer protocol specification – Type 9 elements (IEC 61158-6-9:2014; EN 61158-6-9:2014)

HRN EN 61285:2015 en pr  
Vođenje industrijskog procesa – Sigurnost kućišta analizatora (IEC 61285:2015; EN 61285:2015)  
Industrial-process control – Safety of analyzer houses (IEC 61285:2015; EN 61285:2015)

HRN EN 62714-1:2015 en pr  
Format razmjene tehničkih podataka za uporabu u upravljanju industrijskim automatizacijskim sustavima – 1. dio: Arhitektura i opći zahtjevi (IEC 62714-1:2014; EN 62714-1:2014)  
Engineering data exchange format for use in industrial automation systems engineering – Part 1: Architecture and General Requirements (IEC 62714-1:2014; EN 62714-1:2014)

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

HRN EN 60730-2-5:2015 en pr  
Električne naprave za automatsko upravljanje – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2013, MOD; EN 60730-2-5:2015)  
Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2013, MOD; EN 60730-2-5:2015)

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

HRN EN 61243-3:2015 en pr  
Rad pod naponom – Indikatori napona – 3. dio: Niskonaponski dvopolni tip (IEC 61243-3:2014+Corr.1:2015; EN 61243-3:2014+AC:2015)  
Live working – Voltage detectors – Part 3: Two-pole low-voltage type (IEC 61243-3:2014+Corr.1:2015; EN 61243-3:2014+AC:2015)

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

HRN EN 50130-4:2012/A1:2015 en pr  
Alarmni sustavi – 4. dio: Elektromagnetska kompatibilnost – Norma porodice proizvoda – Zahtjevi za otpornost na smetnje za dijelove vatrodajnih, protuprovalnih, protuprepadnih, TV zatvorenog kruga, kontrole pristupa i socijalnih alarmnih sustava (EN 50130-4:2011/A1:2014)  
Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems (EN 50130-4:2011/A1:2014)

HRN EN 60839-11-1:2013/Ispr.2:2015 en pr  
Alarmni i elektronički sigurnosni sustavi – Dio 11-1: Norma za elektroničke sustave kontrole ulaska – Zahtjevi na sustav i komponente (EN 60839-11-1:2013/AC:2015)  
Alarm and electronic security systems – Part 11-1: Electronic access control systems – System and components requirements (EN 60839-11-1:2013/AC:2015)

HRN EN 62676-1-2:2015 en pr  
Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 1-2: Video prijenos – Opći zahtjevi za izvedbu video prijensa (IEC 62676-1-2:2013; EN 62676-1-2:2014)  
Video surveillance systems for use in security applications – Part 1-2: System requirements – Performance requirements for video transmission (IEC 62676-1-2:2013; EN 62676-1-2:2014)

HRN EN 62676-2-1:2015 en pr  
Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 2-1: Protokoli za prijenos video signala – Opći zahtjevi (IEC 62676-2-1:2013; EN 62676-2-1:2014)  
Video surveillance systems for use in security applications – Part 2-1: Video transmission protocols – General requirements (IEC 62676-2-1:2013; EN 62676-2-1:2014)

HRN EN 62676-2-2:2015 en pr  
Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 2-2: Protokoli za prijenos video signala – Primjena IP interoperabilnosti bazirane na HTTP i REST servisima (IEC 62676-2-2:2013; EN 62676-2-2:2014)  
Video surveillance systems for use in security applications – Part 2-2: Video transmission protocols – IP interoperability implementation based on HTTP and REST services (IEC 62676-2-2:2013; EN 62676-2-2:2014)

HRN EN 62676-2-3:2015 en pr  
Video nadzorni sustavi za uporabu u primjenama zaštite – Dio 2-3: Protokoli za prijenos video signala – Primjena IP interoperabilnosti bazirane na web servisima (IEC 62676-2-3:2013; EN 62676-2-3:2014)  
Video surveillance systems for use in security applications – Part 2-3: Video transmission protocols – IP interoperability implementation based on web services (IEC 62676-2-3:2013; EN 62676-2-3:2014)

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

HRN EN 62288:2015 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Prikaz navigacijskih podataka na brodskim navigacijskim pokazivačima – Opći zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62288:2014; EN 62288:2014)  
Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays – General requirements, methods of testing and required test results (IEC 62288:2014; EN 62288:2014)

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

HRN EN 62320-3:2015 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Sustav automatske identifikacije (AIS) – 3. dio: Repetitorska postaja – Najmanji radni i izvedbeni zahtjevi – Metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62320-3:2015; EN 62320-3:2015)  
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – Part 3: Repeater stations – Minimum operational and performance requirements – Methods of test and required test results (IEC 62320-3:2015; EN 62320-3:2015)

HRN EN 62388:2013/Ispr.1:2015 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Brodski radar – Izvedbeni zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62388:2013/Corr.1:2014; EN 62388:2013/AC:2014)  
Maritime navigation and radiocommunication equipment and systems – Shipborne radar – Performance requirements, methods of testing and required test results (IEC 62388:2013/Corr.1:2014; EN 62388:2013/AC:2014)

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

HRN EN 61557-8:2015 en pr  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor zaštitnih mjera – 8. dio: Naprave za nadzor izolacije za IT sustave (IEC 61557-8:2014; EN 61557-8:2015)  
Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems (IEC 61557-8:2014; EN 61557-8:2015)

HRN EN 61557-9:2015 en pr  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor stupnjeva zaštite – 9. dio: Oprema za određivanje mjesta loše izolacije u IT sustavima (IEC 61557-9:2014; EN 61557-9:2015)  
Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems (IEC 61557-9:2014; EN 61557-9:2015)

### **HZN/TO E88, Vjetroagregati**

HRN EN 61400-2:2015 en pr  
Vjetroagregati – 2. dio: Mali vjetroagregati (IEC 61400-2:2013; EN 61400-2:2014)  
Wind turbines – Part 2: Small wind turbines (IEC 61400-2:2013; EN 61400-2:2014)

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

HRN EN 50607:2015 en pr  
Raspodjela satelitskog signala pomoću jednostrukoga koaksijalnog kabela – Druga generacija (EN 50607:2015)  
Satellite signal distribution over a single coaxial cable – Second generation (EN 50607:2015)

HRN EN 60268-4:2015 en pr  
Oprema audiosustava – 4. dio: Mikrofoni (IEC 60268-4:2014; EN 60268-4:2014)  
Sound system equipment – Part 4: Microphones (IEC 60268-4:2014; EN 60268-4:2014)

HRN EN 61883-6:2015 en pr  
Audio/video oprema za široku potrošnju – Digitalno sučelje – 6. dio: Protokol za prijenos audio i muzičkih podataka (IEC 61883-6:2014; EN 61883-6:2014)  
Consumer audio/video equipment – Digital interface – Part 6: Audio and music data transmission protocol (IEC 61883-6:2014; EN 61883-6:2014)

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

HRN EN 62368-1:2014/Ispr.1:2015 en pr  
Oprema audio/video, informacijske i komunikacijske tehnologije – Zahtjevi sigurnosti (IEC 62368-1:2014/Corr.1:2015; EN 62368-1:2014/AC:2015)  
Audio/video, information and communication technology equipment – Part 1: Safety requirements (IEC 62368-1:2014/Corr.1:2015; EN 62368-1:2014/AC:2015)

HRN IEC/TR 62368-2:2015 en pr  
Oprema audio/video, informacijske i komunikacijske tehnologije – Objašnjenja koja se odnose na IEC 62368-1 (IEC/TR 62368-2:2015)  
Audio/video, information and communication technology equipment – Part 2: Explanatory information related to IEC 62368-1 (IEC/TR 62368-2:2015)

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

HRN EN 55014-2:2015 en pr  
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 2. dio: Otpornost – Norma porodice proizvoda (CISPR 14-2:2015; EN 55014-2:2015)  
Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard (CISPR 14-2:2015; EN 55014-2:2015)

HRN EN 55103-2:2010/IS1:2015 en pr  
Elektromagnetska kompatibilnost – Norma porodice proizvoda za audio, video, audiovizualne aparate i rasvjetne aparate za zabavu – 2. dio: Otpornost (EN 55103-2:2009/IS1:2012)  
Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 2: Immunity (EN 55103-2:2009/IS1:2012)

HRN EN 61000-4-30:2015 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 4-30: Ispitne i mjerne tehnike – Metode mjerenja kvalitete električne energije (IEC 61000-4-30:2015; EN 61000-4-30:2015)  
Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods (IEC 61000-4-30:2015; EN 61000-4-30:2015)

### **HZN/TO E501, Elektroakustika i ultrazvuk**

HRN EN 60318-3:2015 en pr  
Elektroakustika – Simulatori ljudske glave i uha – 3. dio: Akustički spojnik za umjeravanje naušnih slušalica za mjerenja sluha (IEC 60318-3:2014; EN 60318-3:2015)  
Electroacoustics – Simulators of human head and ear – Part 3: Acoustic coupler for the calibration of supra-aural earphones used in audiometry (IEC 60318-3:2014; EN 60318-3:2015)

HRN EN 62489-1:2012/A1:2015 en pr  
Elektroakustika – Sustavi s indukcijskim petljama kao slušna pripomoć u audiofrekvencijskome području – 1. dio: Metode mjerenja i određivanje mogućnosti sastavnice sustava (IEC 62489-1:2010/am1:2014; EN 62489-1:2010/A1:2015)  
Electroacoustics – Audio-frequency induction loop systems for assisted hearing – Part 1: Methods of measuring and specifying the performance of system components (IEC 62489-1:2010/am1:2014; EN 62489-1:2010/A1:2015)

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

HRN EN 50600-2-4:2015 en pr  
Informacijskatehnologija – Sredstviainfrastrukturepodatkovnih centara – Dio 2-4: Infrastruktura telekomunikacijskog kabliranja (EN 50600-2-4:2015)  
Information technology – Data centre facilities and infrastructures – Part 2-4: Telecommunications Cabling Infrastructure (EN 50600-2-4:2015)

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

HRN EN 300 119-6 V1.1.1:2015 en pr  
Ekoinženjering (EE) – Europska telekomunikacijska norma za praktičnu primjenu opreme – 6. dio: Inženjerski zahtjevi za usklađene nosive okvire i kabinete s proširenim svojstvima (EN 300 119-6 V1.1.1:2015)  
Environmental Engineering (EE) – European telecommunication standard for equipment practice – Part 6: Engineering requirements for harmonized racks and cabinets with extended features (EN 300 119-6 V1.1.1:2015)

HRN EN 300 119-7 V1.1.1:2015 en pr  
Ekoinženjering (EE) – Europska telekomunikacijska norma za praktičnu primjenu opreme – 7. dio: Inženjerski zahtjevi za pod-okvire u usklađenim nosivim okvirima i kabinetima s proširenim svojstvima (EN 300 119-7 V1.1.1:2015)  
Environmental Engineering (EE) – European telecommunication standard for equipment practice – Part 7: Engineering requirements for Subracks in harmonized racks and cabinets with extended features (EN 300 119-7 V1.1.1:2015)

HRN EN 300 330-1 V1.8.1:2015 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uredaji kratkoga dometa (SRD) – Radijska oprema u uporabi u frekvencijskom području 9 kHz do 25 MHz i sustavima induktivne petlje u frekvencijskom području 9 kHz do 30 MHz – 1. dio: Tehničke karakteristike i metode ispitivanja (EN 300 330-1 V1.8.1:2015)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz – Part 1: Technical characteristics and test methods (EN 300 330-1 V1.8.1:2015)

HRN EN 300 392-12-22 V1.4.1:2015 en pr  
Terestrijalni međumjesni radio (TETRA) – Glas plus Podatci (V+D) – 12. dio: Dopunske usluge 3. stupnja – Poddio 22: Dinamička dodjela skupnog broja (DGNA) (EN 300 392-12-22 V1.4.1:2015)  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Subpart 22: Dynamic Group Number Assignment (DGNA) (EN 300 392-12-22 V1.4.1:2015)

HRN EN 301 502 V12.1.1:2015 en pr  
Globalni sustav pokretnih komunikacija (GSM) – Harmonizirana europska norma za opremu bazne postaje koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 301 502 V12.1.1:2015)  
Global System for Mobile communications (GSM) – Harmonized EN for Base Station Equipment covering the essential requirements of article 3.2 of the R&TTE Directive (EN 301 502 V12.1.1:2015)

HRN EN 301 649 V2.3.1:2015 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Paketna radijska usluga (DPRS) (EN 301 649 V2.3.1:2015)  
Digital Enhanced Cordless Telecommunications (DECT) – DECT Packet Radio Service (DPRS) (EN 301 649 V2.3.1:2015)

HRN EN 301 908-1 V7.1.1:2015 en pr  
Celularne mreže IMT – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 1. dio: Uvod i opći zahtjevi (EN 301 908-1 V7.1.1:2015)  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 1: Introduction and common requirements (EN 301 908-1 V7.1.1:2015)

HRN EN 302 208-1 V2.1.1:2015 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Oprema za radiofrekvencijsku identifikaciju u pojasu od 865 MHz do 868 MHz s razinom snage do 2 W i u pojasu od 915 MHz do 921 MHz s razinom snage do 4 W – 1. dio: Tehnički zahtjevi i mjerne metode (EN 302 208-1 V2.1.1:2015)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W – Part 1: Technical requirements and methods of measurement (EN 302 208-1 V2.1.1:2015)

HRN EN 302 208-2 V2.1.1:2015 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Oprema za radiofrekvencijsku identifikaciju u pojasu od 865 MHz do 868 MHz s razinom snage do 2 W i u pojasu od 915 MHz do 921 MHz s razinom snage do 4 W – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 302 208-2 V2.1.1:2015)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 302 208-2 V2.1.1:2015)

HRN EN 302 217-2-1 V2.1.1:2015 en pr  
Nepokretni radijski sustavi – Značajke i zahtjevi za opremu i antene točka-točka – Dio 2-1: Zahtjevi ovisni o sustavu za digitalne sustave koji djeluju u frekvencijskim pojasovima u kojima se primjenjuje koordinacija frekvencija (EN 302 217-2-1 V2.1.1:2014)  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 2-1: System-dependent requirements for digital systems operating in frequency bands where frequency co-ordination is applied (EN 302 217-2-1 V2.1.1:2014)

HRN EN 302 307-2 V1.1.1:2015 en pr  
Digitalna radijska videodifuzija (DVB) – Druga generacija strukture okvira, kodiranje kanala i modulacijski sustavi za radiodifuziju, interaktivne usluge, prikupljanje novosti i druge širokopojasne satelitske primjene – 2. dio: DVB-S2 Proširenja (DVB-S2X) (EN 302 307-2 V1.1.1:2015)  
Digital Video Broadcasting (DVB) – Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications – Part 2: DVB-S2 Extensions (DVB-S2X) (EN 302 307-2 V1.1.1:2015)

HRN EN 302 636-3 V1.2.1:2015 en pr  
Inteligentni sustavi prijevoza (ITS) – Komunikacija vozila – Geomrežavanje – 3. dio: Arhitektura mreže (EN 302 636-3 V1.2.1:2014)  
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 3: Network Architecture (EN 302 636-3 V1.2.1:2014)

HRN EN 302 842-3 V1.4.1:2015 en pr  
Radijska oprema za VHF digitalnu vezu (VDL), zrak-tlo i zrak-zrak, mod 4 – Tehničke značajke i mjerne metode za aeronautičku pokretnu (zrakoplovnu) opremu – 3. dio: Dodatni aspekti radiodifuzije (EN 302 842-3 V1.4.1:2015)  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 3: Additional broadcast aspects (EN 302 842-3 V1.4.1:2015)

HRN EN 302 895 V1.1.1:2015 en pr  
Inteligentni sustavi prijevoza (ITS) – Komunikacije među vozilima – Osnovni skup primjena – Lokalna dinamička mapa (LDM) (EN 302 895 V1.1.1:2014)  
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Local Dynamic Map (LDM) (EN 302 895 V1.1.1:2014)

HRN EN 303 135 V1.1.1:2015 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Obalni nadzor, Sustavi plovnog prometa i lučkih radara (CS/VTS/HR) – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE (EN 303 135 V1.1.1:2014)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Coastal Surveillance, Vessel Traffic Services and Harbour Radars (CS/VTS/HR) – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 303 135 V1.1.1:2014)

## HZN/TO Z1, Informacijska tehnologija

- HRN EN 1545-1:2015 en pr  
Sustavi identifikacijskih kartica – Primjene u kopnenom prijevozu – 1. dio: Osnovne vrste podataka, opći popisi kodova i dijelovi općih podataka (EN 1545-1:2015)  
Identification card systems – Surface transport applications – Part 1: Elementary data types, general code lists and general data elements (EN 1545-1:2015)
- HRN EN 1545-2:2015 en pr  
Sustavi identifikacijskih kartica – Primjene u kopnenom prijevozu – 2. dio: Dijelovi podataka i popisi kodova koji se odnose na plaćanje prijevoza i putovanja (EN 1545-2:2015)  
Identification card systems – Surface transport applications – Part 2: Transport and travel payment related data elements and code lists (EN 1545-2:2015)
- HRS CEN/TS 419261:2015 en pr  
Sigurnosni zahtjevi za pouzdane sustave upravljanja certifikatima za elektronički potpis (CEN/TS 419261:2015)  
Security requirements for trustworthy systems managing certificates for electronic signatures (CEN/TS 419261:2015)

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

- HRN EN 131-6:2015 en pr  
Ljestve – 6. dio: Teleskopske ljestve (EN 131-6:2015)  
Ladders – Part 6: Telescopic ladders (EN 131-6:2015)
- HRN EN 16636:2015 en pr  
Usluge upravljanja uništavanjem štetočina – Zahtjevi i osposobljenosti (EN 16636:2015)  
Pest management services – Requirements and competences (EN 16636:2015)
- HRS CEN/TS 16665:2015 en pr  
Specifikacija ispitivanja trajnosti samostojećih ljestvi (CEN/TS 16665:2014)  
Standing ladder durability test specification (CEN/TS 16665:2014)

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

- HRN EN 16575:2015 en pr  
Proizvodi na biološkoj osnovi – Terminološki rječnik (EN 16575:2014)  
Bio-based products – Vocabulary (EN 16575:2014)
- HRS CEN/TS 16640:2015 en pr  
Proizvodi na biološkoj osnovi – Određivanje količine ugljika biološkog podrijetla u proizvodima upotrebom metode radioaktivnog ugljika (CEN/TS 16640:2014)  
Bio-based products – Determination of the bio based carbon content of products using the radiocarbon method (CEN/TS 16640:2014)

## HZN/TU I1, Strojarstvo 1

- HRN EN 16486:2015 en pr  
Machines for compacting waste materials or recyclable fractions – Compactors – Safety requirements (EN 16486:2014)
- HRN EN 16500:2015 en pr  
Strojevi za zbijanje otpada ili recikliranih frakcija – Vertikalni tijesci za baliranje – Sigurnosni zahtjevi (EN 16500:2014)  
Machines for compacting waste materials or recyclable fractions – Vertical baling presses – Safety requirements (EN 16500:2014)

## HZN/TU I2, Strojarstvo 2

- HRN EN 15059:2015 en pr  
Oprema za tretiranje snijega – Sigurnosni zahtjevi (EN 15059:2009+A1:2015)  
Snow grooming equipment – Safety requirements (EN 15059:2009+A1:2015)

## HZN/TU M1, Metalni materijali 1

- HRN EN ISO 4490:2015 en pr  
Metalni prah – Određivanje protoka pomoću umjernoga lijevka (Hallov mjerac protoka) (ISO 4490:2014; EN ISO 4490:2014)  
Metallic powders – Determination of flow rate by means of a calibrated funnel (Hall flowmeter) (ISO 4490:2014; EN ISO 4490:2014)

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

- HRN EN 455-3:2015 en pr  
Medicinske rukavice za jednokratnu upotrebu – 3. dio: Zahtjevi i ispitivanje za biološko vrednovanje (EN 455-3:2015)  
Medical gloves for single use – Part 3: Requirements and testing for biological evaluation (EN 455-3:2015)
- HRN EN ISO 7494-2:2015 en pr  
Stomatologija – Stomatološke radne jedinice – 2. dio: Sustavi opskrbe zrakom i vodom, usisavanja i odvodnje (ISO 7494-2:2015; EN ISO 7494-2:2015)  
Dentistry – Dental units – Part 2: Air, water, suction and wastewater systems (ISO 7494-2:2015; EN ISO 7494-2:2015)
- HRI CEN/TR 12401:2015 en pr  
Stomatologija – Upute za razvrstavanje stomatoloških naprava i pribora (CEN/TR 12401:2009)  
Dentistry – Guidance on the classification of dental devices and accessories (CEN/TR 12401:2009)
- HRN EN ISO 13116:2015 en pr  
Stomatologija – Metoda ispitivanja za određivanje rendgenske sjene materijala (ISO 13116:2014; EN ISO 13116:2014)  
Dentistry – Test Method for Determining Radio-Opacity of Materials (ISO 13116:2014; EN ISO 13116:2014)

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

- HRN EN 2593-001:2015 en pr  
Zrakoplovstvo – Osnove za elektromagnetske utične releje struje 10 A, s dvostruko izbačena dva i četiri pola – Dio 001: Tehnička specifikacija (EN 2593-001:2014)  
Aerospace series – Bases for 10 A electromagnetic plug-in relays, two and four poles double thrown – Part 001: Technical specification (EN 2593-001:2014)
- HRN EN 2997-009:2015 en pr  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 009: Zaštitni omotač za utičnicu – Norma za proizvod (EN 2997-009:2014)  
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 009: Protective cover for receptacle – Product standard (EN 2997-009:2014)
- HRN EN 2997-010:2015 en pr  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – Dio 010: Zaštitni omotač za utikač – Norma za proizvod (EN 2997-010:2014)  
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 010: Protective cover for plug – Product standard (EN 2997-010:2014)
- HRN EN 3545-005:2015 en pr  
Zrakoplovstvo – Spojnice, električne, pravokutne, sa zabrtvljenom ili nezabrtvljenom zadnjom stranom, plastičnim kućištem, uređajem za osiguranje, radne temperature od -55 °C do 175 °C – Dio 005: Sustav označavanja i priključivanja utičnice za ugradnju na slobodno kućište (utikač) – Norma za proizvod (EN 3545-005:2014)  
Aerospace series – Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C – Part 005: Female coding and attachment System for mounting on free housing (plug) – Product standard (EN 3545-005:2014)
- HRN EN 3545-007:2015 en pr  
Zrakoplovstvo – Spojnice, električne, pravokutne, zabrtvljene ili nezabrtvljene sa zadnje strane, plastično kućište, uređaj za osiguranje, radne temperature od -55 °C do 175 °C – Dio 007: Kabelaška stezaljka – Norma za proizvod (EN 3545-007:2014)  
Aerospace series – Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C – Part 007: Cable clamp – Product standard (EN 3545-007:2014)
- HRN EN 3716-004:2015 en pr  
Zrakoplovstvo – Spojnice, jednostrane s troosnim sučeljem, za prijenos digitalnih podataka – Dio 004: Lemljeni utikač i završetak – Norma za proizvod (EN 3716-004:2014)

- Aerospace series – Connectors, single-way with triaxial interface for transmission of digital data – Part 004: Solder plug and terminator – Product standard (EN 3716-004:2014)
- HRN EN 3825:2015 en pr  
Zrakoplovstvo – Fluorosilikonska guma (FVMQ) – Tvrdća 60 IRHD (EN 3825:2014)  
Aerospace series – Fluorosilicone rubber (FVMQ) – Hardness 60 IRHD (EN 3825:2014)
- HRN EN 3826:2015 en pr  
Zrakoplovstvo – Fluorosilikonska guma (FVMQ) – Tvrdća 70 IRHD (EN 3826:2014)  
Aerospace series – Fluorosilicone rubber (FVMQ) – Hardness 70 IRHD (EN 3826:2014)
- HRN EN 3827:2015 en pr  
Zrakoplovstvo – Fluorosilikonska guma (FVMQ) – Tvrdća 80 IRHD (EN 3827:2014)  
Aerospace series – Fluorosilicone rubber (FVMQ) – Hardness 80 IRHD (EN 3827:2014)
- HRN EN 4056-004:2015 en pr  
Zrakoplovstvo – Obujmice za kabelaške snopove – Dio 004: Plastične obujmice – Za radne temperature od -55 °C do 105 °C i od -55 °C do 150 °C – Norma za proizvod (EN 4056-004:2014)  
Aerospace series – Cable ties for harnesses – Part 004: Plastic cable ties – For operating temperatures -55 °C to 105 °C and -55 °C to 150 °C – Product standard (EN 4056-004:2014)
- HRN EN 4550-1:2015 en pr  
Zrakoplovstvo – Cijevni priključak, 37° – Konfiguracija oblikovanja – Nizovi u inčima – 1. dio: Muški krajevi za brtvljenje, kuglasti (EN 4550-1:2014)  
Aerospace series – Pipe coupling, 37° – Design configuration – Inch series – Part 1: Male sealing ends, spherical (EN 4550-1:2014)
- HRN EN 4550-4:2015 en pr  
Zrakoplovstvo – Cijevni priključak, 37° – Konfiguracija oblikovanja – Nizovi u inčima – 4. dio: Ženski krajevi za brtvljenje (EN 4550-4:2014)  
Aerospace series – Pipe coupling, 37° – Design configuration – Inch series – Part 4: Female sealing ends (EN 4550-4:2014)
- HRN EN 4701-001:2015 en pr  
Zrakoplovstvo – Spojnice, optičke, pravokutne, modularne, radne temperature 125 °C, spojnice za kontakte prema normi EN 4531-101 – Dio 001: Tehnička specifikacija (EN 4701-001:2014)  
Aerospace series – Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts – Part 001: Technical specification (EN 4701-001:2014)
- HRN EN 4826:2015 en pr  
Zrakoplovstvo – Prevlake za čelik od cinka i nikla (12 %-16 % Ni) s određenom zateznom čvrstoćom ≤ 1 450 MPa, legure bakra, legure nikla i legure aluminija za dijelove i spojne elemente (EN 4826:2014)  
Aerospace series – Zinc-Nickel (12 %-16 % Ni) plating of steels with specified tensile strength ≤ 1 450 MPa, copper alloys, nickel alloys and aluminium alloys for parts and fasteners (EN 4826:2014)
- HRN EN 6049-005:2015 en pr  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – Dio 005: Savitljiva navlaka za naknadnu ugradnju – Norma za proizvod (EN 6049-005:2014)  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 005: Sleeve flexible, post installation – Product standard (EN 6049-005:2014)
- HRN EN 6059-308:2015 en pr  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – Dio 308: Nagla promjena temperature (EN 6059-308:2014)  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 308: Rapid change of temperature (EN 6059-308:2014)
- HRN EN 6059-502:2015 en pr  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – Dio 502: Otpornost na električne lukove (EN 6059-502:2014)  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 502: Resistance to electrical arcs (EN 6059-502:2014)
- HRN EN 9103:2015 en pr  
Zrakoplovstvo – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama (EN 9103:2014)  
Aerospace series – Quality management systems – Variation management of key characteristics (EN 9103:2014)
- HRN EN 9320:2015 en pr  
Zrakoplovstvo – Upravljanje programom – Opće smjernice za nabavu i opskrbu otvorenih sustava (EN 9320:2014)  
Aerospace series – Programme Management – General guidelines for acquisition and supply of open systems (EN 9320:2014)

## HZN/TU U1, Opća elektrotehnika 1

- HRN EN 50436-2:2014/A1:2015 en pr  
Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 2. dio: Instrumenti s usnikom za mjerenje alkoholiziranosti namijenjeni za opću preventivnu uporabu (EN 50436-2:2014/A1:2015)  
Alcohol interlocks – Test methods and performance requirements – Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use (EN 50436-2:2014/A1:2015)
- HRN EN 50436-6:2015 en pr  
Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 6. dio: Sigurnost podataka (EN 50436-6:2015)  
Alcohol interlocks – Test methods and performance requirements – Part 6: Data security (EN 50436-6:2015)
- HRN EN 60068-2-75:2015 en pr  
Ispitivanje utjecaja okoliša – Dio 2-75: Ispitivanja – Eh ispitivanje: Ispitivanja čekićem (IEC 60068-2-75:2014; EN 60068-2-75:2014)  
Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 60068-2-75:2014; EN 60068-2-75:2014)
- HRN EN 60127-1:2009/A2:2015 en pr  
Minijturni osigurači – 1. dio: Definicije za minijturne osigurače i opći zahtjevi za minijturne rastalne uloške (IEC 60127-1:2006/am2:2015; EN 60127-1:2006/A2:2015)  
Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links (IEC 60127-1:2006/am2:2015; EN 60127-1:2006/A2:2015)
- HRN EN 60127-3:2015 en pr  
Minijturni osigurači – 3. dio: Subminijturni rastalni ulošci (IEC 60127-3:2015; EN 60127-3:2015)  
Miniature fuses – Part 3: Sub-miniature fuse-links (IEC 60127-3:2015; EN 60127-3:2015)
- HRN EN 60127-6:2015 en pr  
Minijturni osigurači – 6. dio: Držači osigurača za minijturne rastalne uloške (IEC 60127-6:2014; EN 60127-6:2014)  
Miniature fuses – Part 6: Fuse-holders for miniature fuse-links (IEC 60127-6:2014; EN 60127-6:2014)
- HRN EN 60282-1:2010/A1:2015 en pr  
Visokonaponski osigurači – 1. dio: Osigurači za ograničavanje struje (IEC 60282-1:2009/am1:2014; EN 60282-1:2009/A1:2014)  
High-voltage fuses – Part 1: Current-limiting fuses (IEC 60282-1:2009/am1:2014; EN 60282-1:2009/A1:2014)

## HZN/TU V1, Elektronika 1

- HRN EN 50289-3-8:2015 en pr  
Communication cables – Specifications for test methods – Part 3-8: Mechanical test methods – Abrasion resistance of cable sheath markings (EN 50289-3-8:2013)
- HRN EN 50491-2:2011/A1:2015 en pr  
Opći zahtjevi za elektroničke sustave u stanovima i zgradama (ESSZ) i sustave automatizacije i nadzora u zgradama (BACS) – 2. dio: Uvjeti prirodne okoline (EN 50491-2:2010/A1:2015)  
General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 2: Environmental conditions (EN 50491-2:2010/A1:2015)
- HRN EN 60747-5-5:2012/A1:2015 en pr  
Semiconductor devices – Discrete devices – Part 5-5: Optoelectronic devices – Photocouplers (IEC 60747-5-5:2007/am1:2013; EN 60747-5-5:2011/A1:2015)
- HRN EN 60794-3:2015 en pr  
Optical fibre cables – Part 3: Sectional specification – Outdoor cables (IEC 60794-3:2014; EN 60794-3:2015)

- HRN EN 60904-2:2015 en pr  
Photovoltaic devices – Part 2: Requirements for reference solar devices (IEC 60904-2:2015; EN 60904-2:2015)
- HRN EN 61010-2-081:2015 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-081: Posebni zahtjevi za automatsku i poluautomatsku laboratorijsku opremu za analize i druge namjene (IEC 61010-2-081:2015; EN 61010-2-081:2015)  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes (IEC 61010-2-081:2015; EN 61010-2-081:2015)
- HRN EN 61076-2-104:2015 en pr  
Connectors for electronic equipment – Product requirements – Part 2-104: Circular connectors – Detail specification for circular connectors with M8 screw-locking or snap-locking (IEC 61076-2-104:2014; EN 61076-2-104:2014)
- HRN EN 61169-50:2015 en pr  
Radio-frequency connectors – Part 50: Sectional specifications RF coaxial connectors with inner diameter of outer conductors 4.11 mm with quick lock system – Characteristics impedance 50 Ohm (type QMA) (IEC 61169-50:2014; EN 61169-50:2015)
- HRN EN 61189-5-3:2015 en pr  
Test methods for electrical materials, interconnection structures and assemblies – Part 5-3: Test methods for printed board assemblies: Soldering paste (IEC 61189-5-3:2015; EN 61189-5-3:2015)
- HRN EN 61196-10-1:2015 en pr  
Coaxial communication cables – Part 10-1: Blank detail specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric (IEC 61196-10-1:2014; EN 61196-10-1:2014)
- HRN EN 61280-2-2:2014/Ispr.1:2015 en pr  
Fibre optic communication subsystem test procedures – Part 2-2: Digital systems – Optical eye pattern, waveform and extinction ratio measurement (IEC 61280-2-2:2012/Corr.1:2015; EN 61280-2-2:2012/AC:2015)
- HRN EN 61300-3-53:2015 en pr  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-53: Examinations and Measurements – Encircled angular flux (EAF) measurement method based on two-dimensional far field data from step index multimode waveguide (including fibre) (IEC 61300-3-53:2015; EN 61300-3-53:2015)
- HRN EN 61340-4-4:2014/A1:2015 en pr  
Electrostatics – Part 4-4: Standard test methods for specific applications – Electrostatic classification of flexible intermediate bulk containers (FIBC) (IEC 61340-4-4:2012/am1:2014; EN 61340-4-4:2012/A1:2015)
- HRN EN 61753-031-2:2015 en pr  
Fibre optic interconnecting devices and passive components – Performance standard – Part 031-2: Non-connectorised single-mode 1xN and 2xN non-wavelength-selective branching devices for Category C – Controlled environment (IEC 61753-031-2:2014; EN 61753-031-2:2014)
- HRN EN 61753-031-3:2015 en pr  
Fibre optic interconnecting devices and passive components – Performance standard – Part 031-3: Non-connectorised single-mode 1xN and 2xN non-wavelength-selective branching devices for Category U – Uncontrolled environment (IEC 61753-031-3:2014; EN 61753-031-3:2015)
- HRN EN 61753-031-6:2015 en pr  
Fibre optic interconnecting devices and passive components – Performance standard – Part 031-6: Non-connectorised single-mode 1xN and 2xN non-wavelength-selective branching devices for Category O – Uncontrolled environment (IEC 61753-031-6:2014; EN 61753-031-6:2014)
- HRN EN 61754-7-1:2015 en pr  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 7-1: Type MPO connector family – One fibre row (IEC 61754-7-1:2014; EN 61754-7-1:2014)
- HRN EN 61755-2-4:2015 en pr  
Fibre optic interconnecting devices and passive components – Connector optical interfaces – Part 2-4: Connection parameters of non-dispersion shifted single-mode physically contacting fibres – Non-angled for reference connection applications (IEC 61755-2-4:2015; EN 61755-2-4:2015)
- HRN EN 61755-2-5:2015 en pr  
Fibre optic interconnecting devices and passive components – Connector optical interfaces – Part 2-5: Connection parameters of non-dispersion shifted single-mode physically contacting fibres – Angled for reference connection applications (IEC 61755-2-5:2015; EN 61755-2-5:2015)
- HRN EN 62047-20:2015 en pr  
Semiconductor devices – Micro-electromechanical devices – Part 20: Gyroscopes (IEC 62047-20:2014; EN 62047-20:2014)
- HRN EN 62047-21:2015 en pr  
Semiconductor devices – Micro-electromechanical devices – Part 21: Test method for Poisson's ratio of thin film MEMS materials (IEC 62047-21:2014; EN 62047-21:2014)
- HRN EN 62148-18:2015 en pr  
Fibre optic active components and devices – Package and interface standards – Part 18: 40-Gbit/s serial transmitter and receiver components for use with the LC connector interface (IEC 62148-18:2014; EN 62148-18:2015)
- HRN EN 62343-5-1:2015 en pr  
Dynamic modules – Part 5-1: Test methods – Dynamic gain tilt equalizer – Gain tilt settling time measurement (IEC 62343-5-1:2014; EN 62343-5-1:2015)
- HRN EN 62790:2015 en pr  
Junction boxes for photovoltaic modules – Safety requirements and tests (IEC 62790:2014; EN 62790:2015)
- HRN EN 62813:2015 en pr  
Lithium ion capacitors for use in electric and electronic equipment – Test methods for electrical characteristics (IEC 62813:2015; EN 62813:2015)
- HRN EN 62817:2015 en pr  
Solar trackers for photovoltaic systems – Design qualification (IEC 62817:2014; EN 62817:2015)
- HRN EN 62852:2015 en pr  
Connectors for DC-application in photovoltaic systems – Safety requirements and tests (IEC 62852:2014; EN 62852:2015)
- HRN EN 140402:2015 en pr  
Blank Detail Specification: Fixed low power wirewound surface mount (SMD) resistors (EN 140402:2015)
- HRN EN 140402-801:2015 en pr  
Detail specification: Fixed low power wirewound surface mount (SMD) resistors – Rectangular – Stability classes 0,5; 1; 2 (EN 140402-801:2015)

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

- HRN EN 50636-2-100:2015 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-100: Posebni zahtjevi za ručne vrtno puhalice, usisavače i puhalice s usisavačem koje se napajaju iz mreže (IEC 60335-2-100:2002, MOD; EN 50636-2-100:2014)  
Household and similar electrical appliances – Safety – Part 2-100: Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums (IEC 60335-2-100:2002, MOD; EN 50636-2-100:2014)
- HRN EN 61811-1:2015 en pr  
Electromechanical telecom elementary relays of assessed quality – Part 1: Generic specification and blank detail specification (IEC 61811-1:2015; EN 61811-1:2015)
- HRN EN 62282-4-101:2015 en pr  
Tehnologija gorivih ćelija – Dio 4-101: Sustavi gorivih ćelija za pogon necestovnih vozila i pomoćnih jedinica za napajanje (APU) – Sigurnost industrijskih kamiona na električni pogon (IEC 62282-4-101:2014; EN 62282-4-101:2014)  
Fuel cell technologies – Part 4-101: Fuel cell power systems for propulsion other than road vehicles and auxiliary power units (APU) – Safety of electrically powered industrial trucks (IEC 62282-4-101:2014; EN 62282-4-101:2014)

HRN EN 62485-3:2015 en pr  
Sigurnosni zahtjevi za sekundarne baterije i baterijske instalacije – 3. dio: Vučne baterije (IEC 62485-3:2014; EN 62485-3:2014)  
Safety requirements for secondary batteries and battery installations – Part 3: Traction batteries (IEC 62485-3:2014; EN 62485-3:2014)

HRN EN 62675:2015 en pr  
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Sealed nickel-metal hydride prismatic rechargeable single cells (IEC 62675:2014; EN 62675:2014)

HRN EN 62841-2-2:2015 en pr  
Elektromotorni ručni alati, prenosivi alati i strojevi za travnjake i vrtove – Sigurnost – Dio 2-2: Posebni zahtjevi za ručne odvijače i udarne zatezače vijaka (IEC 62841-2-2:2014, MOD; EN 62841-2-2:2014)  
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, MOD; EN 62841-2-2:2014)

## 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 nacrt hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrt 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 zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

### HZN/TO 548, *Konstruktivski eurokodovi*

nHRN EN 1991-1-7:2012/A1 hr pp  
Eurokod 1: Djelovanja na konstrukcije – Dio 1-7: Opća djelovanja – Izvanredna djelovanja (EN 1991-1-7:2006/A1:2014)  
Eurocode 1: Actions on structures – Part 1-7: General actions – Accidental actions (EN 1991-1-7:2006/A1:2014)

nHRN EN 1993-1-1:2014/A1 hr pp  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade (EN 1993-1-1:2005/A1:2014)  
Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings (EN 1993-1-1:2005/A1:2014)

nHRN EN 1993-1-1:2014/NA hr izv  
Eurokod 3: Projektiranje čeličnih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade – Nacionalni dodatak  
Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings – National Annex

nHRN EN 1995-1-1:2013/A2 hr pp  
Eurokod 5: Projektiranje drvenih konstrukcija – Dio 1-1: Općenito – Opća pravila i pravila za zgrade (EN 1995-1-1:2004/A2:2014)  
Eurocode 5: Design of timber structures – Part 1-1: General – Common rules and rules for buildings (EN 1995-1-1:2004/A2:2014)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.

Pisane primjedbe na prijedloge za prihvaćanje norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

### HZN/TO 8, *Brodogradnja*

prEN 711 en  
Inland navigation vessels – Railings for decks and side decks – Requirements, types

prEN 14504 en  
Inland navigation vessels – Floating landing stages and floating bridges on inland waters – Requirements, tests

prEN 16840 en  
Inland navigation vessels – Electrical shore connection, three-phase current 400 V, 50 Hz and at least 250 A

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

prEN 13204 rev en  
Double acting hydraulic rescue tools for fire and rescue service use – Safety and performance requirements  
Dvoradni hidraulični alati za spašavanje u vatrogastvu i spasilačkoj službi – Zahtjevi za sigurnost i svojstva

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

FprEN ISO 4254-1 rev en  
Agricultural machinery – Safety – Part 1: General requirements (ISO 4254-1:2013)  
Poljoprivredna mehanizacija – Sigurnost – 1. dio: Opći zahtjevi (ISO 4254-1:2013)

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

ISO 3771:2011 en  
Petroleum products – Determination of base number – Perchloric acid potentiometric titration method  
Naftni proizvodi – Određivanje baznog broja – Metoda potenciometrijske titracije perklornom kiselinom

ISO 4261:2013 en  
Petroleum products – Fuels (class F) – Specifications of gas turbine fuels for industrial and marine applications  
Naftni proizvodi – Goriva (razred F) – Specifikacija goriva za plinske turbine za primjenu u industriji i pomorstvu

ISO 8217:2012 en  
Petroleum products – Fuels (class F) – Specifications of marine fuels  
Naftni proizvodi – Goriva (razred F) – Specifikacije brodskih goriva

ISO 8310:2012 en  
Refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels – General requirements for automatic tank thermometers on board marine carriers and floating storage  
Pohlađeni ugljikovodici i ukapljena nemineralna plinovita goriva – Opći zahtjevi za automatske termometre na spremnicima na brodovima i plutajućim skladištima

ISO 9162:2013 en  
Petroleum products – Fuels (class F) – Liquefied petroleum gases – Specifications  
Naftni proizvodi – Goriva (razred F) – Ukapljeni naftni plinovi – Specifikacije

ISO 10976:2012 en  
Refrigerated light hydrocarbon fluids – Measurement of cargoes on board LNG carriers  
Pohlađene lake ugljikovodične tekućine – Mjerenje tereta na brodovima za UPP



ISO 13738:2011 en  
Lubricants, industrial oils and related products (class L)  
– Family E (Internal combustion engine oils) – Specifications  
for two-stroke-cycle gasoline engine oils (categories EGB,  
EGC and EGD)  
Maziva, industrijska ulja i srodni proizvodi (razred L)  
– Podrazred E (ulja za motore s unutarnjim izgaranjem)  
– Specifikacije ulja za dvotaktne Ottove motore (kategorije  
EGB, EGC i EGD)

ISO 15380:2011 en  
Lubricants, industrial oils and related products (class L)  
– Family H (Hydraulic systems) – Specifications for categories  
HETG, HEPG, HEES and HEPR  
Maziva, industrijska ulja i srodni proizvodi (razred L)  
– Podrazred H (Hidraulički sustavi) – Specifikacije za  
kategorije HETG, HEPG, HEES i HEPR

ISO 18132-1:2011 en  
Refrigerated hydrocarbon and non-petroleum based liquefied  
gaseous fuels – General requirements for automatic tank  
gauges – Part 1: Automatic tank gauges for liquefied natural  
gas on board marine carriers and floating storage  
Pohladeni ugljikovodici i ukapljena nemineralna plinovita  
goriva – Opći zahtjevi za automatske mjerne spremnika  
– 1. dio: Automatski mjeraci spremnika za ukapljeni prirodni  
plin na brodovima i plutajućim skladištima

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

EN ISO 5495:2007/prA1 en  
Sensory analysis – Methodology – Paired comparison test  
(ISO 5495:2005/DAM 1:2015)  
Senzorske analize – Metodologija – Test uspoređenja parova  
(ISO 5495:2005/DAM 1:2015)

### **HZN/TO 35, Boje i lakovi**

prEN ISO 8502-9 rev en  
Preparation of steel substrates before application of paints  
and related products – Tests for the assessment of surface  
cleanliness – Part 9: Field method for the conductometric  
determination of water-soluble salts (ISO/DIS 8502-9:2015)  
Priprema čeličnih podloga prije nanošenja boja i srodnih  
proizvoda – Ispitivanja za procjenu čistoće površine – 9. dio:  
Terenska metoda konduktometrijskog određivanja soli topljivih  
u vodi (ISO/DIS 8502-9:2015)

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

EN ISO 3745:2012/prA1 en  
Acoustics – Determination of sound power levels and  
sound energy levels of noise sources using sound pressure  
– Precision methods for anechoic rooms and hemi-anechoic  
rooms (ISO 3745:2012/DAM 1:2015)  
Akustika – Određivanje razina zvučne snage i razina  
zvučne energije izvora buke uporabom zvučnoga tlaka  
– Precizne metode u gluhim i polugluhim komorama  
(ISO 3745:2012/DAM 1:2015)

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

prEN ISO 3581 rev en  
Welding consumables – Covered electrodes for manual  
metal arc welding of stainless and heat-resisting steels  
– Classification (ISO/DIS 3581:2015)  
Dodatni i potrošni materijali za zavarivanje – Obložene  
elektrode za ručno elektrolučno zavarivanje nehrđajućih i  
vatrootpornih čelika – Razredba (ISO/DIS 3581:2015)

prEN ISO 5182 en  
Resistance welding – Materials for electrodes and ancillary  
equipment (ISO/DIS 5182:2015)  
Elektrootporno zavarivanje – Materijali za elektrode i pomoćnu  
opremu (ISO/DIS 5182:2015)

FprEN ISO 12670 en  
Thermal spraying – Components with thermally sprayed  
coatings – Technical supply conditions (ISO 12670:2011)

FprEN ISO 12679 en  
Thermal spraying – Recommendations for thermal spraying  
(ISO 12679:2011)

prEN ISO 15011-1 en  
Health and safety in welding and allied processes – Laboratory  
method for sampling fume and gases – Part 1: Determination  
of fume emission rate during arc welding and collection of  
fume for analysis (ISO/DIS 15011-1:2015)

Zdravlje i sigurnost pri zavarivanju i srodnim postupcima  
– Laboratorijska metoda uzorkovanja dima i plinova – 1. dio:  
Određivanje brzine emisije dima pri elektrolučnom zavarivanju  
i prikupljanje dima za analizu (ISO/DIS 15011-1:2015)

prEN ISO 17637 rev en  
Non-destructive testing of welds – Visual testing of fusion-  
welded joints (ISO/DIS 17637:2015)  
Nerazorno ispitivanje zavarenih spojeva – Vizualno ispitivanje  
zavarenih spojeva nastalih taljenjem (ISO/DIS 17637:2015)

prEN ISO 17638 rev en  
Non-destructive testing of welds – Magnetic particle testing  
(ISO/DIS 17638:2015)  
Nerazorno ispitivanje zavora – Ispitivanje magnetskim  
česticama (ISO/DIS 17638:2015)

prEN ISO 17662 en  
Welding – Calibration, verification and validation of  
equipment used for welding, including ancillary activities  
(ISO/DIS 17662:2015)  
Zavarivanje – Umjeravanje, provjera i vrednovanje  
opreme za zavarivanje uključujući pomoćne aktivnosti  
(ISO/DIS 17662:2015)

prEN ISO 17672 rev en  
Brazing – Filler metals (ISO/DIS 17672:2015)  
Lemljenje – Dodatni metalni materijali (ISO/DIS 17672:2015)

### **HZN/TO 82, Rudarstvo**

prEN ISO 19296 en  
Mining and earthmoving machinery – Mobile machines working  
underground – Machine Safety (ISO/DIS 19296:2015)

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

prEN 16838:2015 en  
Refrigerated display scooping cabinets for gelato  
– Classification, requirements and test conditions  
Rashladne vitrine za prodaju obrtnički proizvedenog sladoleda  
– Razredba, zahtjevi i uvjeti ispitivanja

### **HZN/TO 120, Koža i obuća**

prEN ISO 4044 en  
Leather – Chemical tests – Preparation of chemical test  
samples  
Koža – Kemijska ispitivanja – Priprema ispitnih uzoraka za  
kemijska ispitivanja

prEN ISO 5402-1 en  
Leather – Determination of flex resistance – Part 1: Flexometer  
method (ISO/DIS 5402-1:2015)  
Koža – Određivanje otpornosti na svijanje – 1. dio: Metoda  
fleksometrom (ISO/DIS 5402-1:2015)

prEN ISO 23910 en  
Leather – Physical and mechanical tests – Measurement of  
stitch tear resistance (ISO/DIS 23910:2015)  
Koža – Fizikalna i mehanička ispitivanja – Mjerenje otpornosti  
na kidanje klinom (ISO/DIS 23910:2015)

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

prEN 1482-3 en  
Fertilizers and liming materials – Sampling and sample  
preparation – Part 3: Sampling of static heaps

prEN 15477 en  
Fertilizers – Determination of the water-soluble potassium  
content

prEN 16847 en  
Fertilizers – Determination of complexing agents in fertilizers  
– Identification of heptagluconic acid by chromatography

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

prEN 16841-1 en  
Ambient air – Determination of odour in ambient air by using  
field inspection – Part 1: Grid method

prEN 16841-2 en  
Ambient air – Determination of odour in ambient air by using  
field inspection – Part 2: Plume method

## HZN/TO 147, *Kvaliteta vode*

FprEN ISO 10703 en  
Water quality – Determination of the activity concentration of radionuclides – Method by high resolution gamma-ray spectrometry (ISO 10703:2007)  
Kvaliteta vode – Određivanje koncentracije aktivnosti radionuklida – Metoda visokorezolucijske gama-spektrometrije (ISO 10703:2007)

FprEN ISO 13160 en  
Water quality – Strontium 90 and strontium 89 – Test methods using liquid scintillation counting or proportional counting (ISO 13160:2012)  
Kvaliteta vode – Stroncij-90 i stroncij-89 – Metoda ispitivanja s upotrebom tekućinske scintilacije ili proporcionalnog brojenja (ISO 13160:2012)

FprEN ISO 13161 en  
Water quality – Measurement of polonium 210 activity concentration in water by alpha spectrometry (ISO 13161:2011)  
Kvaliteta vode – Mjerenje koncentracije aktivnosti polonija-210 u vodi alfa-spektrometrijom (ISO 13161:2011)

## HZN/TO 159, *Ergonomija*

ISO 24504:2014 en  
Ergonomics – Accessible design – Sound pressure levels of spoken announcements for products and public address systems  
Ergonomija – Pristupačan dizajn – Razine zvučnog tlaka govornih najava za proizvode i sustave javnog ozvučenja

## HZN/TO 163, *Toplinska izolacija*

prEN ISO 52016-1 en  
Energy performance of buildings – Calculation of the energy needs for heating and cooling, internal temperatures and heating and cooling load in a building or building zone – Part 1: Calculation procedures (ISO/DIS 52016-1:2015)  
Energijiska svojstva zgrada – Proračun energije potrebne za grijanje i hlađenje, unutarnjih temperatura i toplinskog i rashladnog opterećenja u zgradi ili toplinskoj zoni zgrade – 1. dio: Postupci proračuna (ISO/DIS 52016-1:2015)

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

prEN 1272 en  
Child care articles – Table mounted chairs – Safety requirements and test methods  
Proizvodi za dojenčad i malu djecu – Stolci koji se montiraju na stol – Sigurnosni zahtjevi i metode ispitivanja

## HZN/TO 207, *Upravljanje okolišem*

prEN ISO 14004 en  
Environmental management systems – General guidelines on principles; systems and support techniques (ISO/DIS 14004:2015)

## HZN/TO 211, *Geoinformacije/Geomatika*

prEN ISO 19119 rev en  
Geographic information – Services (ISO/DIS 19119:2015)  
Geoinformacije – Usluge (ISO/DIS 19119:2015)

## HZN/TO 215, *Medicinska informatika*

EN ISO 11073-20601:2011/FprA1 en  
Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol – Amendment 1 (ISO/IEEE 11073-20601:2010/Amd 1:2015)  
Medicinska informatika – Povezivost osobnoga medicinskog uređaja – 20601. dio: Profil aplikacije – Optimizirani protokol izmjene podataka – Amandman 1 (ISO/IEEE 11073-20601:2010/Amd 1:2015)

EN ISO 11073-30200:2005/FprA1 en  
Health informatics – Point-of-care medical device communication – Part 30200: Transport profile – Cable connected – Amendment 1 (ISO/IEEE 11073-30200:2004/Amd 1:2015)  
Medicinska informatika – Povezivost medicinskog uređaja u trenutku liječenja – 30200. dio: Profil prijenosa – Kabelskom vezom (ISO/IEEE 11073-30200:2004/Amd 1:2015)

## HZN/TO 218, *Drvo*

ISO 3129:2012 en  
Wood – Sampling methods and general requirements for physical and mechanical testing of small clear wood specimens  
Drvo – Metode uzorkovanja i opći zahtjevi za ispitivanje fizikalnih i mehaničkih svojstava na manjim uzorcima masivnog drva

ISO 13061-1:2014 en  
Physical and mechanical properties of wood – Test methods for small clear wood specimens – Part 1: Determination of moisture content for physical and mechanical tests  
Fizikalna i mehanička svojstva drva – Metode ispitivanja za manje uzorke masivnog drva – 1. dio: Određivanje sadržaja vode za provođenje ispitivanja fizikalnih i mehaničkih svojstava

ISO 13061-2:2014 en  
Physical and mechanical properties of wood – Test methods for small clear wood specimens – Part 2: Determination of density for physical and mechanical tests  
Fizikalna i mehanička svojstva drva – Metode ispitivanja za manje uzorke masivnog drva – 2. dio: Određivanje gustoće za provođenje ispitivanja fizikalnih i mehaničkih svojstava

ISO 13061-3:2014 en  
Physical and mechanical properties of wood – Test methods for small clear wood specimens – Part 3: Determination of ultimate strength in static bending  
Fizikalna i mehanička svojstva drva – Metode ispitivanja za manje uzorke masivnog drva – 3. dio: Određivanje statičke čvrstoće na savijanje

## HZN/TO 219, *Podne obloge*

EN ISO 11378-2:2001/prA1 en  
Textile floor coverings – Laboratory soiling tests – Part 2: Drum test (ISO 11378-2:2001/DAM 1:2015)  
Tekstilne podne obloge – Laboratorijska ispitivanja zemljom – 2. dio: Ispitivanje bubnjem (ISO 11378-2:2001/DAM 1:2015)

prEN ISO 12951 en  
Textile floor coverings – Determination of mass loss, fibre bind and stair nosing appearance change using the Lisson Tretrad machine (ISO/FDIS 12951:2015)

## HZN/TO 238, *Čvrsta biogoriva*

prEN ISO 17827-1 en  
Solid Biofuels – Determination of particle size distribution for uncompressed fuels – Part 1: Oscillating screen method using sieves with apertures of 3,15 mm and above (ISO/DIS 17827-1:2015)

prEN ISO 17827-2 en  
Solid biofuels – Determination of particle size distribution for uncompressed fuels – Part 2: Vibrating screen method using sieves with aperture of 3,15 mm and below (ISO/DIS 17827-2:2015)

prEN ISO 17830 en  
Solid biofuels – Determination of particle size distribution of material within pellets (ISO/DIS 17830:2015)

## HZN/TO 502, *Plinski uređaji*

prEN ISO 6976 rev en  
Natural gas – Calculation of calorific values, density, relative density and Wobbe indices from composition (ISO/DIS 6976:2015)  
Prirodni plin – Izračunavanje toplinskih vrijednosti, gustoće, relativne gustoće i Wobbeove značajke iz sastava (ISO/DIS 6976:2015)

FprEN 15181 en  
Measuring method of the energy consumption of gas fired ovens  
Mjerna metoda potrošnje energije plinskih peći

prEN 16830 en  
Safety and control devices for burners and appliances burning gaseous or liquid fuels – Control functions in electronic systems – Temperature Control function

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

prEN 16828 en  
Hot rolled steel channels, I and H sections – Dimensions and masses

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

FprEN ISO 8044 en  
Corrosion of metals and alloys – Basic terms and definitions (ISO/FDIS 8044:2015)  
Korozija i zaštita metala i legura – Osnovni nazivi i definicije (ISO/FDIS 8044:2015)

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

ISO 15589-1:2015 en  
Petroleum, petrochemical and natural gas industries – Cathodic protection of pipeline systems – Part 1: On-land pipelines  
Industrija nafte i prirodnoga plina – Katodna zaštita cjevovodnih transportnih sustava – 1. dio: Cjevovodi na kopnu

prEN ISO 16530-1 en  
Petroleum and natural gas industries – Well integrity – Part 1: Life cycle governance (ISO/DIS 16530-1:2015)

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

prEN 12675 en  
Traffic signal controllers – Functional safety requirements  
Signalni uređaj prometnih signala – Uvjeti funkcionalne sigurnosti

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

FprEN 1434-3 en  
Heat meters – Part 3: Data exchange and interfaces  
Mjerila toplinske energije – 3. dio: Razmjena podataka i sučelja

FprEN 13757-6 en  
Communication systems for meters – Part 6: Local Bus

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

prEN 14836 en  
Synthetic surfaces for outdoor sports areas – Exposure to artificial weathering  
Površine od sintetičkih materijala za vanjske sportske terene – Izloženost umjetnom starenju

prEN 14903 en  
Surfaces for sports areas – Synthetic surfaces for outdoor sports areas – Determination of rotational friction

prEN 16837 en  
Surfaces for sports areas – Determination of linear shoe/surface friction

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

prEN 204 en  
Classification of thermoplastic wood adhesives for non-structural applications  
Klasifikacija plastomernih adheziva za drvo za nekonstrukcijske primjene

prEN 205 en  
Adhesives – Wood adhesives for non-structural applications – Determination of tensile shear strength of lap joints  
Adhezivi – Adhezivi za drvo za nekonstrukcijske primjene – Određivanje posmične čvrstoće preklopnih spojeva

prEN 12765 en  
Classification of thermosetting wood adhesives for non-structural applications  
Klasifikacija termoreaktivnih adheziva za drvo za nekonstrukcijske primjene

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

prEN 14582 en  
Characterization of waste – Halogen and sulfur content – Oxygen combustion in closed systems and determination methods  
Karakterizacija otpada – Sadržaj halogena i sumpora – Izgaranje u atmosferi kisika u zatvorenim sustavima i metode određivanja

## **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

EN 494:2012/FprA1 en  
Fibre-cement profiled sheets and fittings – Product specification and test methods  
Valovite ploče i pomoćni dijelovi od cementa ojačanog vlaknima – Specifikacija proizvoda i metode ispitivanja

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

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

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

prEN 16849 en  
Bitumen and bituminous binders – Determination of water content in bituminous emulsions – Method using a drying balance

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

EN 13674-1:2011/prA1 en  
Railway applications – Track – Rail – Part 1: Vignole railway rails 46 kg/m and above  
Željeznički sustav – Željeznički gornji ustroj – Tračnica – 1. dio: Vignoleove željezničke tračnice mase 46 kg/m i više

prEN 13715 en  
Railway applications – Wheelsets and bogies – Wheels – Tread profile  
Željeznički sustav – Osovinski sklopovi i okretna postolja – Kotači – Profil kotača

prEN 16432-2 en  
Railway applications – Ballastless track systems – Part 2: Subsystems and components  
Željeznički sustav – Kolosiječni sustavi na čvrstoj podlozi – 2. Dio: Podsustavi i dijelovi

prEN 16834 en  
Railway applications – Braking – Brake performance  
Željeznički sustav – Kočenje – Učinkovitost kočenja

prEN 16839 en  
Railway applications – Rolling stock – Head stock layout  
Željeznički sustav – Željeznička vozila – Raspored opreme na čelu vozila

prEN 16843 en  
Railway applications – Infrastructure – Mechanical requirements for joints in running rails  
Željeznički sustav – Infrastruktura – Mehanički zahtjevi za spojeve na voznim tračnicama

EN 45545-2:2013/FprA1 en  
Railway applications – Fire safety on railway vehicles – Part 2: Requirements for fire behaviour of materials and components  
Željeznički sustav – Zaštita od požara na željezničkim vozilima – 2. dio: Zahtjevi za ponašanje materijala i komponenti kod požara

EN 45545-5:2013/FprA1 en  
Railway applications – Fire safety on railway vehicles – Part XX: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles  
Željeznički sustav – Zaštita od požara na željezničkim vozilima – 5. dio: Požarni sigurnosni zahtjevi za električnu opremu uključujući i onu na trolejbusima, kolosiječno vođenim autobusima i vozilima s magnetskom levitacijom

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

prEN 16851 en  
Cranes – Light crane systems

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

prEN ISO 6802 rev en  
Rubber and plastics hoses and hose assemblies with wire reinforcements – Hydraulic impulse test with flexing (ISO/DIS 6802:2015)  
Gumena i plastična crijeva i crijevni sklopovi ojačani žicom – Hidraulično impulsno ispitivanje savijanjem (ISO/DIS 6802:2015)

prEN ISO 7233 en  
Rubber and plastics hoses and hose assemblies – Determination of resistance to vacuum (ISO/DIS 7233:2015)  
Gumena i plastična crijeva i crijevni uređaji – Određivanje podtladne čvrstoće (ISO/DIS 7233:2015)

prEN ISO 7326 en  
Rubber and plastics hoses – Assessment of ozone resistance under static conditions (ISO/DIS 7326:2015)  
Gumena i plastična crijeva – Procjena postojanosti na ozon pri statičkim uvjetima (ISO/DIS 7326:2015)

prEN ISO 8331 en  
Rubber and plastics hoses and hose assemblies – Guidelines for selection, storage, use and maintenance (ISO/DIS 8331:2015)  
Gumena i plastična crijeva i crijevni sklopovi – Smjernice za odabir, skladištenje, uporabu i održavanje (ISO/DIS 8331:2015)

FprCEN/TS 16861 en  
Plastics – Recycled plastics – Determination of selected marker compounds in food grade recycled polyethylene terephthalate (PET)  
Plastika – Reciklirana plastika – Određivanje odabranih označenih(marker) spojeva u recikliranom polietilentereftala tu(PET) za prehrambenu primjenu

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

FprEN 13084-6 en  
Free-standing chimneys – Part 6: Steel liners – Design and execution  
Samostojeći dimnjaci – 6. dio: Čelične cijevi – Projektiranje i izvedba

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

prEN ISO 24490 en  
Cryogenic vessels – Pumps for cryogenic service (ISO/DIS 24490:2015)  
Kriogenične posude – Pumpe za kriogenične uvjete (ISO/DIS 24490:2015)

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

EN ISO 3098-1:2015 en  
Technical product documentation – Lettering – Part 1: General requirements (ISO 3098-1:2015)  
Tehnička dokumentacija proizvoda – Znakovlje – 1. dio: Opći zahtjevi (ISO 3098-1:2015)

prEN ISO 16610-28 en  
Geometrical product specifications (GPS) – Filtration – Part 28: Profile filters: End effects (ISO/DIS 16610-28:2015)

prEN ISO 16610-31 en  
Geometrical product specifications (GPS) – Filtration – Part 31: Robust profile filters: Gaussian regression filters (ISO/DIS 16610-31:2015)

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

EN 14476:2013/FprA1 en  
Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area – Test method and requirements (Phase 2/Step 1)  
Kemijski dezinficijensi i antiseptici – Kvantitativni suspenzijski test za procjenu virucidne aktivnosti u medicini – Ispitna metoda i zahtjevi (faza 2, korak 1)

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

prEN 15316-4-10 en  
Heating systems and water based cooling systems in buildings – Method for calculation of system energy requirements and system efficiencies – Part 4-10: Wind power generation systems  
Sustavi grijanja i sustavi hlađenja vodom u zgradama – Metoda proračuna energijskih zahtjeva i učinkovitosti sustava – Dio 4-10: Vjetrogeneratori

prEN 16798-5-2 en  
Energy performance of buildings – Modules M5-6, M5-8 – Ventilation for buildings – Calculation methods for energy requirements of ventilation systems – Part 5-2: Distribution and generation (revision of EN 15241) – method 2  
Energijiska svojstva zgrada – Moduli M5-6, M5-8 – Ventilacija u zgradama – Metode proračuna energijskih zahtjeva sustava ventilacije – Dio 5-2: Distribucija i proizvodnja (revizija EN 15241) – 2. metoda

## **HZN/TO 543, Poštanske usluge**

prEN 14508 rev en  
Postal services – Quality of service – Measurement of the transit time of end-to-end services for single piece non-priority mail and second class mail  
Poštanske usluge – Kvaliteta usluga – Mjerenje vremena prijenosa pojedinačne neprioritetne pošiljke od prijama do uručenja

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

FprEN 14516 en  
Baths for domestic purposes  
Kade za upotrebu u kućanstvu

FprEN 15719 en  
Sanitary appliances – Baths made from impact modified coextruded ABS/acrylic sheets – Requirements and test methods  
Sanitarni uređaji – Kade izrađene udarom oblikovanih koekstrudiranih ABS/akrilnih ploča – Zahtjevi i metode ispitivanja

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

FprEN ISO 13408-7 en  
Aseptic processing of health care products – Part 7: Alternative processes for medical devices and combination products (ISO 13408-7:2012)  
Aseptički postupci za proizvode zdravstvene zaštite – 7. dio: Alternativni postupci za medicinske proizvode i kombinirane farmaceutske proizvode (ISO 13408-7:2012)

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

prEN ISO 2286-2 rev en  
Rubber- or plastics-coated fabrics – Determination of roll characteristics – Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO/DIS 2286-2:2015)  
Plošni tekstil naslojen gumom ili plastikom – Određivanje svojstava namotka – 2. dio: Metode određivanja ukupne površinske mase, površinske mase nasloja i površinske mase podloge (ISO/DIS 2286-2:2015)

prEN ISO 2286-3 rev en  
Rubber- or plastic-coated fabrics – Determination of roll characteristics – Part 3: Method for determination of thickness (ISO/DIS 2286-3:2015)  
Plošni tekstil naslojen gumom ili plastikom – Određivanje svojstava namotka – 3. dio: Metoda određivanja debljine (ISO/DIS 2286-3:2015)

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

EN 13445-3:2014/prA4 en  
Unfired pressure vessels – Part 3: Design  
Neložene tlačne posude – 3. dio: Projektiranje

EN 13480-8:2012/prA2 en  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura

EN 14334:2014 en  
LPG equipment and accessories – Inspection and testing of  
LPG road tankers  
Oprema i pribor za UNP – Pregled i ispitivanje kamionskih  
cisterni za UNP

prEN 21007-2 en  
Gas cylinders – Identification and marking using radio  
frequency identification technology – Part 2: Numbering  
schemes for radio frequency identification (ISO/DIS 21007-2:2015)  
Plinske boce – Identifikacija i označavanje uporabom tehnologije  
identificiranja radio-frekvencijom – 2. dio: Brojčane sheme za  
identifikaciju radio-frekvencije (ISO/DIS 21007-2:2015)

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

prEN ISO 11148-13 en  
Hand-held non-electric power tools – Safety requirements  
– Part 13: Fastener driving tools (ISO/DIS 11148-13:2015)

prEN ISO 19085-4 en  
Woodworking machines – Safety – Part 4: Vertical panel  
circular sawing machines (ISO/DIS 19085-4:2015)

prEN ISO 19085-5 en  
Woodworking Machines – Safety – Part 5: Dimension saws  
(ISO/DIS 19085-5:2015)

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

EN ISO 29841:2014/prA1 en  
Vegetable fats and oils – Determination of the degradation  
products of chlorophylls a and a' (pheophytins a, a' and  
pyropheophytins) (ISO 29841:2014/DAM 1:2015)  
Biljne masti i ulja – Određivanje razgradnih produkata klorofila  
a i a' (feofitini a, a' i pirofeofitini) (ISO 29841:2014/DAM 1:2015)

### **HZN/TO 568, Analize hrane – Horizontalne metode**

prEN ISO 10272-1 en  
Microbiology of the food chain – Horizontal method for  
detection and enumeration of *Campylobacter* spp. – Part 1:  
Detection method (ISO/DIS 10272-1:2015)

prEN ISO 10272-2 en  
Microbiology of the food chain – Horizontal method for  
detection and enumeration of *Campylobacter* spp. – Part 2:  
Colony-count technique (ISO/DIS 10272-2:2015)

prEN ISO 22964 en  
Microbiology in the food chain – Horizontal method for the  
detection of *Cronobacter* spp. (ISO/DIS 22964:2015)

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

prEN 12503-2 en  
Sports mats – Part 2: Pole vault and high jump mats, safety  
requirements  
Sportske strunjače – 2. dio: Strunjače za skok s motkom i  
skok u vis, sigurnosni zahtjevi

prEN 12503-4 en  
Sports mats – Part 4: Determination of shock absorption  
Sportske strunjače – 4. dio: Određivanje prigušenja udaraca

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

prEN 50152-3-2:2015 en  
Railway applications – Fixed installations – Particular  
requirements for a.c. switchgear – Part 3-2: Measurement,  
control and protection devices for specific use in a.c. traction  
systems – Single-phase current transformers  
Željeznički sustav – Stabilna postrojenja – Posebni zahtjevi za  
izmjenična rasklopna postrojenja – Dio 3-2: Mjerni, upravljački  
i zaštitni uređaji za posebnu uporabu u izmjeničnim sustavima  
vuče – Jednofazni strujni transformatori

prEN 50152-3-3:2015 en  
Railway applications – Fixed installations – Particular  
requirements for a.c. switchgear – Part 3-3: Measurement,  
control and protection devices for specific use in a.c. traction  
systems – Single-phase inductive voltage transformers  
Željeznički sustav – Stabilna postrojenja – Posebni zahtjevi za  
izmjenična rasklopna postrojenja – Dio 3-3: Mjerni, upravljački  
i zaštitni uređaji za posebnu uporabu u izmjeničnim sustavima  
vuče – Jednofazni naponski transformatori

EN 50367:2012/prA1:2015 en  
Railway applications – Current collection systems – Technical  
criteria for the interaction between pantograph and overhead  
line (to achieve free access)  
Željeznički sustav – Sustavi oduzimača struje – Tehnički  
uvjeti za međusobno djelovanje pantografa i kontaktnog voda  
(omogućavanje slobodnog pristupa)

CLC/FprTS 50459-1:2015 en  
Railway applications – Communication, signalling and  
processing systems – European Rail Traffic Management  
System – Driver-Machine Interface – Part 1: General principles  
for the presentation of ERTMS/ETCS/GSM-R information  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi  
obrade podataka – Europski sustav upravljanja željezničkim  
prometom (ERTMS) – Sučelje strojovođa-vozilo – 1. dio:  
Opća načela za prikaz ERTMS/ETCS/GSM-R informacija

FprEN 62864-1:2015 en  
Railway applications – Rolling stock – Power supply with  
onboard energy storage system – Part 1: Series hybrid  
system (IEC 62864-1:201X)

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

EN 50341-2-20:2015 en  
Overhead electrical lines exceeding AC 45 kV – Part 2-20:  
National Normative Aspects (NNA) for ESTONIA (based on  
EN 50341-1:2012)  
Nadzemni električni vodovi izmjenične struje iznad 45 kV  
– Dio 2-20: Nacionalni normativni aspekti (NNA) za Estoniju  
(na temelju EN 50341-1:2012)

### **HZN/TO E14, Energetski transformatori**

FprEN 60076-19:2015 en  
Power transformers – Part 19: Rules for the determination  
of uncertainties in the measurement of the losses on power  
transformers and reactors (IEC/TS 60076-19:2013)

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

FprEN 60674-2:2015 en  
Specification for plastic films for electrical purposes – Part 2:  
Methods of test (IEC 60674-2:201X)  
Specifikacija za plastične folije za elektrotehničke svrhe  
– 2. dio: Metode ispitivanja (IEC 60674-2:201X)

FprEN 62677-2:2015 en  
Heat shrinkable low and medium voltage moulded shapes  
– Part 2 Methods of test (IEC 62677-2:201X)

### **HZN/TO E20, Električni kabeli**

FprEN 60702-3:2015 en  
Mineral insulated cables and their terminations with a  
rated voltage not exceeding 750 V – Part 3: Guide to use  
(IEC 60702-3:201X)

### **HZN/TO E22, Energetska elektronika**

FprEN 61800-5-2:2015 en  
Adjustable speed electrical power drive systems – Part 5-2:  
Safety requirements – Functional (IEC 61800-5-2:201X)  
Elektromotorni sustavi prilagodljive brzine – Dio 5-2: Zahtjevi  
za sigurnost – Funkcionalni (IEC 61800-5-2:201X)

### **HZN/TO E23, Električni instalacijski pribor**

prEN 50066 en  
Mini-couplers for the interconnection of electrical mains  
supplied equipment in road vehicles  
Minijturni utični pribor za spajanje opreme u cestovnim  
vozilima koja se napaja iz električne mreže

EN 61008-1:2012/FprAA:2015 en  
Residual current operated circuit-breakers without integral  
overcurrent protection for household and similar uses  
(RCCBs) – Part 1: General rules  
Strujne zaštitne sklopke bez združene nadstrujne zaštite za  
kućanstvo i slične primjene (RCCB-i) – 1. dio: Opća pravila

EN 61009-1:2012/FprAA:2015 en  
Residual current operated circuit-breakers with integral  
overcurrent protection for household and similar uses  
(RCBOs) – Part 1: General rules  
Strujne zaštitne sklopke sa združenom nadstrujnom zaštitom  
za kućanstvo i slične primjene (RCBO-i) – 1. dio: Opća  
pravila

EN 61995-1:2008/FprA1:2015 en  
Devices for the connection of luminaires for household and similar purposes – Part 1: General requirements (IEC 61995-1:2005/am1:201X)  
Naprave za priključak svjetiljki za kućanstvo i slične svrhe – 1. dio: Opći zahtjevi (IEC 61995-1:2005/am1:201X)

EN 61995-2:2009/FprA1:2015 en  
Devices for the connection of luminaires for household and similar purposes – Part 2: Standard sheets for DCL (IEC 61995-2:2009/am1:201X)  
Naprave za priključak svjetiljki (DCL) za kućanstvo i slične svrhe – 2. dio: Normirani listovi za DCL (IEC 61995-2:2009/am1:201X)

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

EN 60081:1998/FprA6:2015 en  
Double-capped fluorescent lamps – Performance specifications (IEC 60081:1997/am6:201X)  
Fluorescentne cijevi s dva podnoška – Izvedbeni zahtjevi (IEC 60081:1997/am6:201X)

FprEN 60838-2-3:2015 en  
Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED-lamps (IEC 60838-2-3:201X)

EN 62612:2013/FprA1:2015 en  
Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements (IEC 62612:2013/am1:201X)  
Žarulje sa svjetlećim diodama s vlastitom predspojnom napravom za opću uporabu u rasvjeti s naponom napajanja većim od 50 V – Izvedbeni zahtjevi (IEC 62612:2013/am1:201X)

FprEN 62922:2015 en  
Organic light emitting diode (OLED) panels for general lighting – Performance requirements (IEC 62922:201X)

### **HZN/TO E37, Odvodnici prenapona**

FprEN 61643-351:2015 en  
Components for low-voltage surge protection – Part 351: Performance requirements and test methods for telecommunications and signalling network lightning isolation transformers (LIT) (IEC 61643-351:201X)

### **HZN/TO E45, Nuklearna instrumentacija**

prEN 61005 en  
Radiation protection instrumentation – Neutron ambient dose equivalent (rate) meters (IEC 61005:2014)  
Instrumentacija u zaštiti od zračenja – Mjerila neutronskoga doznog ekvivalenta i brzine doznog ekvivalenta u okolini (IEC 61005:2014)

prEN 61227 en  
Nuclear power plants – Control rooms – Operator controls (IEC 61227:2008)  
Nuklearne elektrane - Kontrolne sobe - Naredbe operatora (IEC 61227:2008)

EN 61577-3:2014 en  
Radiation protection instrumentation – Radon and radon decay product measuring instruments – Part 3: Specific requirements for radon decay product measuring instruments (IEC 61577-3:2011)  
Instrumentacija u zaštiti od zračenja – Instrumentacija za mjerenje radona i produkata raspada radona – 3. Dio: Specifični zahtjevi instrumentacije za mjerenje radona i produkata raspada radona (IEC 61577-3:2011)

prEN 62694 en  
Radiation protection instrumentation – Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material

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

FprEN 61078:2015 en  
Reliability block diagrams (IEC 61078:201X)

FprEN 61703:2015 en  
Mathematical expressions for reliability, availability, maintainability and maintenance support terms (IEC 61703:201X)  
Matematički izrazi za pouzdanost, raspoloživost, sposobnosti održavanja i održavanje (IEC 61703:201X)

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

EN 60870-5-101:2003/prA1 en  
Telecontrol equipment and systems – Part 5-101: Transmission protocols – Companion standard for basic telecontrol tasks (IEC 60870-5-101:2003/am1:201X)  
Oprema i sustavi daljinskog upravljanja – Dio 5-101: Prijenosni protokoli – Prateća norma za osnovne zadatke daljinskog upravljanja (IEC 60870-5-101:2003/am1:201X)

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

EN 60704-2-5:2005/A1:2015 en  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-5: Particular requirements for electric thermal storage room heaters (IEC 60704-2-5:2005/am1:2014)  
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdužne buke – Dio 2-5: Posebni zahtjevi za električne termoakumulacijske grijalice (IEC 60704-2-5:2005/am1:2014)

FprEN 62885-2:2015 en  
Surface cleaning appliances – Part 2: Dry vacuum cleaners for household and similar use – Methods for measuring the performance (IEC 62885-2:201X)

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

FprEN 60335-2-102:2015 en  
Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections  
Kućanski i slični električni aparati – Sigurnost – Dio 2-102: Posebni zahtjevi za aparate na plinovito, uljno i kruto gorivo s električnim priključkom

FprEN 60335-2-103:2015 en  
Household and similar electrical appliances – Safety – Part 2-103: Particular requirements for drives for gates, doors and windows (IEC 60335-2-103:201X)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-103: Posebni zahtjevi za pogon vrata za kolni ulaz, vrata i prozora (IEC 60335-2-103:201X)

prEN 60335-2-113 en  
Household and similar electrical appliances – Safety – Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources (IEC 60335-2-113:201X)

EN 60335-2-95:2015/FprA1:2015 en  
Household and similar electrical appliances – Safety – Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use (IEC 60335-2-95:2011/am1:2015)  
Kućanski i slični električni aparati – Sigurnost – Dio 2-95: Posebni zahtjevi pogona za okomito pomicanje garažnih vrata u domaćinstvu (IEC 60335-2-95:2011/am1:2015)

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

EN 60601-2-10:2015/FprA1:2015 en  
Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators – Proposed Horizontal Standard (IEC 60601-2-10:2012/am1:201X)

EN 60601-2-19:2009/FprA1:2015 en  
Medical electrical equipment – Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators – Proposed Horizontal Standards (IEC 60601-2-19:2009/am1:201X)

EN 60601-2-21:2009/FprA1:2015 en  
Medical electrical equipment – Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers – Proposed Horizontal Standards (IEC 60601-2-21:2009/am1:201X)

EN 60601-2-3:2012/FprA1:2015 en  
Medical electrical equipment – Part 2-3: Particular requirements for the basic safety and essential performance of short-wave therapy equipment – Proposed Horizontal Standard (IEC 60601-2-3:2012/am1:201X)

EN 60601-2-50:2009/FprA1:2015 en  
Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment – Proposed Horizontal Standards (IEC 60601-2-50:2009/am1:201X)

EN 60601-2-6:2012/FprA1:2015 en  
Medical electrical equipment – Part 2-6: Particular requirements for the basic safety and essential performance of microwave therapy equipment – Proposed Horizontal Standard (IEC 60601-2-6:2012/am1:201X)

EN 80601-2-35:2009/FprA1:2015 en  
Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use (IEC 80601-2-35:2009/am1:201X; EN 80601-2-35:2009/FprA1:2015)  
Medicinska električna oprema – Dio 2-35: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za grijanje koji upotrebljavaju pokrivače, jastuke i madrace, a namijenjeni su za grijanje u medicinske svrhe (IEC 80601-2-35:2009/am1:201X; EN 80601-2-35:2009/FprA1:2015)

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

EN 61158-3-2:2014 en  
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements (IEC 61158-3-2:2014)  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-2: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-3-2:2014)

EN 61158-3-4:2014 en  
Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements (IEC 61158-3-4:2014)  
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-4: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 4 (IEC 61158-3-4:2014)

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

FprEN 60958-4-1:2015 en  
Digital audio interface – Part 4-1: Professional applications – Audio Content (TA 4) (IEC 60958-4-1:201X)

FprEN 60958-4-2:2015 en  
Digital audio interface – Part 4-2: Professional applications – Metadata and subcode (TA 4) (IEC 60958-4-2:201X)

FprEN 60958-4-4:2015 en  
Digital audio interface – Part 4-4: Professional applications – Physical and electrical (TA 4) (IEC 60958-4-4:201X)

EN 61966-2-4:2006/FprA1:2015 en  
Multimedia systems and equipment – Colour measurement and management – Part 2-4: Colour management – Extended-gamut YCC colour space for video applications – xvYCC (IEC 61966-2-4:2006/am1:201X)

FprEN 62702-1-1:2015 en  
Audio Archive System – Part 1-1: DVD disk and data migration for long term audio data storage (IEC 62702-1-1:201X)

FprEN 62827-1:2015 en  
Wireless Power Transfer – Management – Part 1: Common Components (TA 15) (IEC 62827-1:201X)

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

prEN 50527-1:2015 en  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 1: General  
Postupak za procjenu izloženosti elektromagnetskim poljima radnika koji nose aktivne medicinske implantate – 1. dio: Općenito

prEN 50527-2-1:2015 en  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-1: Specific assessment for workers with cardiac pacemakers  
Postupak za procjenu izloženosti elektromagnetskim poljima radnika koji nose aktivne medicinske implantate – Dio 2-1: Specifična procjena za radnike s elektrostimulatorima srca

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

CLC/TR 50481:2009 en  
Recommendations on filters for shielded enclosures  
Preporuke za filtre za oklopljene zatvorene prostorije

CLC/TR 50484:2009 en  
Recommendations for shielded enclosures  
Preporuke za oklopljene zatvorene prostorije

FprEN 55025:2015 en  
Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers (CISPR 25:201X)  
Vozila, plovila i motori s unutarnjim izgaranjem – Značajke radio smetnja – Granične razine i metode mjerenja za zaštitu ugrađenih prijemnika (CISPR 25:201X)

FprEN 61000-4-31:2015 en  
Electromagnetic Compatibility (EMC) – Part 4-31: Testing and measurement techniques – AC mains ports broadband conducted disturbance immunity test (IEC 61000-4-31:201X)  
Elektromagnetska kompatibilnost (EMC) – Dio 4-31: Ispitne i mjerne tehnike – Ispitivanje širokopojasne vodljive smetnje na priključcima mreže izmjenične struje (AC) (IEC 61000-4-31:201X)

### **HZN/TO E501, Elektroakustika i ultrazvuk**

EN 60118-4:2015 en  
Electroacoustics – Hearing aids – Part 4: Induction-loop systems for hearing aid purposes – System performance requirements (IEC 60118-4:2014)  
Elektroakustika – Slušna pomagala – 4. dio: Sustavi s indukcijskom petljom u slušnim pomagalima – Zahtjevi za karakteristike sustava (IEC 60118-4:2014)

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

EN 300 019-2-1 V2.2.1:2014 en  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-1: Specification of environmental tests – Storage  
Ekoingenjering (EE) – Uvjeti i ispitivanja telekomunikacijske opreme s obzirom na okoliš – Dio 2-1: Specifikacija ispitivanja s obzirom na okoliš – Pohrana

Draft EN 300 175-3 V2.5.8:2015 en  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 3. dio: Sloj upravljanja pristupa prijenosnom mediju (MAC)

Draft EN 300 175-4 V2.5.9:2015 en  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 4. dio: Sloj upravljanja podatkovnim linkom

Draft EN 300 175-5 V2.5.8:2015 en  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 5. dio: Sloj upravljanja pristupa prijenosnom mediju (NWK)

Draft EN 300 175-6 V2.5.4:2015 en  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 6. dio: Identiteti i adresiranje

- Draft EN 300 175-7 V2.5.7:2015 en  
Digital Enhanced Cordless Telecommunications (DECT)  
– Common Interface (CI) – Part 7: Security features  
Digitalne poboljšane bežične telekomunikacije (DECT)  
– Zajedničko sučelje (CI) – 7. dio: Značajke sigurnosti
- Draft EN 300 175-8 V2.5.7:2015 en  
Digital Enhanced Cordless Telecommunications (DECT)  
– Common Interface (CI) – Part 8: Speech and audio coding and transmission  
Digitalne poboljšane bežične telekomunikacije (DECT)  
– Zajedničko sučelje (CI) – 8. dio: Kodiranje i prijenos govora i zvuka
- Draft EN 300 253 V2.1.11:2015 en  
Environmental Engineering (EE) – Earthing and bonding of ICT equipment powered by -48 VDC in telecom and data centres  
Ekoinženjering (EE) – Uzemljivanje i električno povezivanje ICT opreme koja se napaja s (-48 V) DC u telekomunikacijskim i podatkovnim centrima
- EN 300 330-2 V1.6.1:2015 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Uređaji kratkoga dometa (SRD) – Radijska oprema u frekvencijskom području od 9 kHz do 25 MHz i sustavima s indukcijom petljom u frekvencijskom području od 9 kHz do 30 MHz – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- Draft EN 300 422-1 V1.5.0:2015 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 1: Technical characteristics and methods of measurement  
Elektromagnetska kompatibilnost i radiofrekvencijski spektar (ERM) – Bežični mikrofoni u frekvencijskom području od 25 MHz do 3 GHz – 1. dio: Tehničke značajke i metode ispitivanja
- Draft EN 300 422-2 V1.4.0:2015 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radiofrekvencijski spektar (ERM) – Bežični mikrofoni u frekvencijskom području od 25 MHz do 3 GHz – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz direktive R&TTE
- Draft EN 301 489-4 V2.2.0:2015 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 4: Specific conditions for fixed radio links and ancillary equipment  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma o elektromagnetskoj kompatibilnosti (EMC) za radijsku opremu i službe – 4. dio: Posebni uvjeti za nepokretne radijske veze i pomoćnu opremu
- Draft EN 301 489-6 V1.4.0:2015 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma za elektromagnetsku kompatibilnosti (EMC) za radijsku opremu i usluge – 6. dio: Posebni uvjeti za opremu digitalnih poboljšanih bežičnih komunikacija (DECT sustav)
- Draft EN 301 511 V12.0.0:2015 en  
Global System for Mobile communications (GSM) – Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)  
Globalni sustav za pokretne komunikacije (GSM) – Usklađena norma za pokretne stanice u pojasevima GSM 900 i GSM 1800 koja obuhvaća bitne zahtjeve prema članku 3.2 direktive R&TTE (1999/5/EC)
- EN 301 549 V1.1.2:2015 en  
Accessibility requirements suitable for public procurement of ICT products and services in Europe  
Zahtjevi s obzirom na dostupnost ICT proizvoda i usluga prikladni za primjenu u javnim nabavama u Europi
- Draft EN 301 842-5 V1.1.0:2015 en  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 5: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Radijska oprema za VHF digitalnu vezu (VDL), zrak-tlo, mod 4 – Tehničke značajke i mjerne metode za opremu na tlu – 5. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 301 893 V1.8.1:2015 en  
Broadband Radio Access Networks (BRAN) – 5 GHz high performance RLAN – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Širokopojasne radiopristupne mreže (BRAN) – RLAN od 5 GHz visoke radne kvalitete – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- Draft EN 301 908-3 V7.0.1:2015 en  
IMT cellular networks – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive – Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)  
Celularne mreže IMT – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE – 3. dio: Bazne postaje (BS) sa CDMA s izravnim raspršenjem spektra (UTRA FDD)
- EN 302 307-1 V1.4.1:2014 en  
Digital Video Broadcasting (DVB) – Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications – Part 1: DVB-S2  
Digitalna videodifuzija (DVB) – Druga generacija strukture kreiranja okvira, kodiranja kanala i modulacijskih sustava za difuziju, interaktivne usluge, sakupljanje novosti i druge širokopojasne satelitske aplikacije – 1. dio: DVB-S2
- EN 302 561 V1.3.2:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – Radio equipment using constant or non-constant envelope modulation operating in a channel bandwidth of 25 kHz, 50 kHz, 100 kHz or 150 kHz – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Kopnena pokretna služba – Radijska oprema sa stalnom ili nestalnom modulacijskom ovojnicom koja radi u kanalu širine 25kHz, 50kHz, 100kHz ili 150kHz – Harmonizirana europska norma koja obuhvaća bitne zahtjeve članka 3.2 direktive R&TTE
- EN 302 637-2 V1.3.2:2014 en  
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Part 2: Specification of Cooperative Awareness Basic Service  
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Osnovni skup primjena – 2. dio: Specifikacija bazične usluge suradničkog osvješćivanja
- EN 302 637-3 V1.2.2:2014 en  
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Part 3: Specifications of Decentralized Environmental Notification Basic Service  
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Osnovni skup primjena – 3. dio: Specifikacije decentralizirane bazične usluge obavješćivanja o okolišu
- Draft EN 302 755 V1.4.1:2015 en  
Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital terrestrial television broadcasting system (DVB-T2)  
Digitalna video radijska difuzija (DVB) – Okvirna struktura kanalnoga kodiranja i modulacije za drugu generaciju digitalnoga terestrijalnog sustava televizijske radijske difuzije (DVB-T2)
- EN 302 969 V1.2.1:2014 en  
Reconfigurable Radio Systems (RRS) – Radio Reconfiguration related Requirements for Mobile Devices  
Radijski sustavi s mogućnošću izmjene konfiguracije (RRS) – Zahtjevi koji se odnose na izmjenu konfiguracije mobilnih uređaja
- Draft EN 303 095 V1.2.1:2015 en  
Reconfigurable Radio Systems (RRS) – Radio Reconfiguration related Architecture for Mobile Devices  
Rekonfigurativni radijski sustavi (RRS) – Radijski rekonfigurirana arhitektura mobilnih uređaja



- EN 303 098-1 V1.2.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime low power personal locating devices employing AIS – Part 1: Technical characteristics and methods of measurement  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Pomorski uređaji male snage za lokaciju osoba s AIS sustavom – 1. dio: Tehničke karakteristike i metode mjerenja
- EN 303 098-2 V1.2.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime low power personal locating devices employing AIS – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar – Pomorski uređaji male snage za osobnu lokaciju sa sustavom automatske identifikacije AIS – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 303 203-1 V1.1.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Medical Body Area Network Systems (MBANSs) operating in the 2 483,5 MHz to 2 500 MHz range – Part 1: Technical characteristics and test methods  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Mrežni sustavi za prijenos biomedicinskih signala ljudskim tijelom (MBANSs) koji rade u području od 2 483,5 MHz do 2 500 MHz – 1. dio: Tehničke karakteristike i metode ispitivanja
- EN 303 203-2 V1.1.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Medical Body Area Network Systems (MBANSs) operating in the 2 483,5 MHz to 2 500 MHz range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Mrežni sustavi za prijenos biomedicinskih signala ljudskim tijelom (MBANSs) koji rade u području od 2 483,5 MHz do 2500 MHz – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- EN 303 204-1 V1.1.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Network Based Short Range Devices (SRD) – Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW – Part 1: Technical characteristics and test methods  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Umreženi uređaji kratkoga dometa (SRD) – Radijska oprema u frekventijskom području od 870 MHz do 876 MHz s razinama snage do 500 mW – 1. dio: Tehničke karakteristike i metode ispitivanja
- EN 303 204-2 V1.1.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Network Based Short Range Devices (SRD) – Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Umreženi uređaji kratkoga dometa (SRD) – Radijska oprema u frekventijskom području od 870 MHz do 876 MHz s razinama snage do 500 mW – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz direktive R&TTE
- Draft EN 303 979 V1.1.0:2015 en  
Satellite Earth Stations and Systems (SES) – Harmonized EN for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in non-geostationary orbit in the 27,5 GHz to 29,1 GHz and 29,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the R&TTE Directive  
Satelitske zemaljske stanice i sustavi (SES) – Harmonizirana europska norma za zemaljske stanice na mobilnim platformama (ESOMP), koje odašilju prema satelitima u ne-geostacionarnoj orbiti u frekventijskim pojasevima od 27,5 GHz do 29,1 GHz i 29,5 GHz do 30,0 GHz, obuhvaća bitne zahtjeve iz članka 3,2 direktive R&TTE
- EN 305 550-1 V1.2.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 40 GHz to 246 GHz frequency range – Part 1: Technical characteristics and test methods  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekventijskom području od 40 GHz do 246 GHz – 1. dio: Tehničke karakteristike i metode ispitivanja
- EN 305 550-2 V1.2.1:2014 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 40 GHz to 246 GHz frequency range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema za uporabu u frekventijskom području od 40 GHz do 246 GHz – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE
- HZN/TO Z1, Informacijska tehnologija**
- ISO/IEC 9594-8:2014 en  
Information technology – Open Systems Interconnection – The Directory – Part 8: Public-key and attribute certificate frameworks  
Informacijska tehnologija – Međusobno povezivanje otvorenih sustava – Imenik – 8. dio: Okviri certifikata javnog ključa i atributnog certifikata
- ISO/IEC 18014-1:2008 en  
Information technology – Security techniques – Time-stamping services – Part 1: Framework  
Informacijska tehnologija – Sigurnosne tehnike – Usluge stavljanja vremenskog žiga – 1. dio: Okvir
- ISO/IEC 18014-2:2009 en  
Information technology – Security techniques – Time-stamping services – Part 2: Mechanisms producing independent tokens  
Informacijska tehnologija – Sigurnosne tehnike – Usluge stavljanja vremenskog žiga – 2. dio: Mehanizmi koji stvaraju neovisne oznake
- ISO/IEC 18014-3:2009 en  
Information technology – Security techniques – Time-stamping services – Part 3: Mechanisms producing linked tokens  
Informacijska tehnologija – Sigurnosne tehnike – Usluge stavljanja vremenskog žiga – 3. dio: Mehanizmi koji stvaraju povezane oznake
- ISO/IEC 19757-2:2008 en  
Information technology – Document Schema Definition Language (DSDL) – Part 2: Regular-grammar-based validation – RELAX NG  
Informacijska tehnologija – Jezik za određivanje sheme dokumenta (DSDL) – 2. dio: Provjera koja se temelji na regularnoj gramatici – RELAX NG
- ISO/IEC 24759:2014 en  
Information technology – Security techniques – Test requirements for cryptographic modules  
Informacijska tehnologija – Sigurnosne tehnike – Ispitni zahtjevi za kriptografske module
- ISO/IEC 27000:2014 en  
Information technology – Security techniques – Information security management systems – Overview and vocabulary  
Informacijska tehnologija – Sigurnosne tehnike – Sustavi upravljanja informacijskom sigurnošću – Pregled i rječnik
- HZN/TU B1, Graditeljstvo 1**
- CEN/TR 16705:2014 en  
Perimeter protection – Performance classification methodology  
Zaštita granica posjeda – Metodologija za razredbu učinkovitosti
- HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**
- prEN 16845-1 en  
Photocatalysis – Anti-soiling chemical activity using adsorbed organics under solid/solid conditions – Part 1: Dyes on porous surfaces
- prEN 16846-1 en  
Photocatalysis – Batch mode test methods – Part 1: Measurement of efficiency of photocatalytic devices used for the elimination of VOC and odour in indoor air in active mode

prEN 16848 en  
Bio-based products – Template for B2B reporting and communication of characteristics – Data sheet

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

FprEN ISO 361 en  
Basic ionizing radiation symbol (ISO 361:1975)  
Osnovni simbol ionizirajućeg zračenja (ISO 361:1975)

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

EN 1811:2011/FprA1:2015 en  
Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin  
Referentna metoda ispitivanja izlučivanja nikla iz svih dijelova koji se umeću u probušene dijelove ljudskoga tijela i predmeta koji su u izravnom i produženome kontaktu s ljudskom kožom

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

prEN ISO 2157 rev en  
Dentistry – Nominal diameters and designation code numbers for rotary instruments (ISO/DIS 2157:2015)  
Stomatologija – Nazivni promjeri i brojičane oznake za rotirajuće instrumente (ISO/DIS 2157:2015)

prEN ISO 9626 rev en  
Stainless steel needle tubing for the manufacture of medical devices – Requirements and test methods (ISO/DIS 9626:2015)  
Kanile od nehrđajućeg čelika za izradu medicinskih proizvoda – Zahtjevi i metode ispitivanja (ISO/DIS 9626:2015)

prEN 16844 en  
Aesthetic medicine services – Non-surgical medical procedures  
Estetske medicinske usluge – Nekirurški medicinski postupci

prEN ISO 18739 en  
Dentistry – Vocabulary of process chain for CAD/CAM systems (ISO/DIS 18739:2015)  
Stomatologija – Terminološki rječnik lanca procesa za CAD/CAM sustave (ISO/DIS 18739:2015)

FprEN ISO 23500 en  
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies (ISO 23500:2014)  
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije (ISO 23500:2014)

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

FprEN 2591-315 rev en  
Aerospace series – Elements of electrical and optical connection – Test methods – Part 315: Fluid resistance  
Nizovi o zrakoplovstvu – Elementi električne i optičke veze – Metode ispitivanja – 315. dio: Otpornost na fluide

FprEN 3155-027 en  
Aerospace series – Electrical contacts used in elements of connection – Part 027: Contacts, electrical, female, type A, crimp, class R – Product standard  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 027. dio: Kontakti, električni, ženski, tip A, za krimpanje, razreda R – Norma za proizvod

FprEN 3155-065 en  
Aerospace series – Electrical contacts used in elements of connection – Part 065: Contacts, electrical, male, type A, crimp, class S, size 8 – Product standard  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 065. dio: Kontakti, električni, muški, tip A, za krimpanje, razreda S, veličina 8 – Norma za proizvod

FprEN 3155-082 en  
Aerospace series – Electrical contacts used in elements of connection – Part 082: Contacts, electrical, female, type A, crimp, class S – Product standard

FprEN 3155-083 en  
Aerospace series – Electrical contacts used in elements of connection – Part 083: Contact, electrical, female, type A, crimp, class S, size 8 – Product standard

EN 3545-006:2015 en  
Aerospace series – Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C – Part 006: Male coding and attachment System for mounting on fixed housing (receptacle) – Product standard  
Zrakoplovstvo – Spojnice, električne, pravokutne, zabrtvljene ili nezabrtvljene sa zadnje strane, plastično kućište, uređaj za osiguranje, radne temperature od -55 °C do 175 °C – 006. dio: Priključni sustav s muškim kodiranjem za ugradnju na slobodno kućište (utičnica) – Norma za proizvod

EN 3645-003:2015 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 003: Receptacle square flange mounting – Product standard  
Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 003. dio: Utičnica s kvadratnom prirubnicom za montažu – Norma za proizvod

EN 3645-006:2015 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 006: Protective cover for receptacle – Product standard  
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 006. dio: Zaštitni omotač za utičnicu – Norma za proizvod

EN 3645-007:2015 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 007: Protective cover for plug – Product standard  
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 007. dio: Zaštitni omotač za utikač – Norma za proizvod

EN 3645-008:2015 en  
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling operating temperature 175 °C or 200 °C continuous – Part 008: Non release plug with grounding ring – Product standard  
Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 008. dio: Neoslobađajući utikači s prstenom za uzemljenje – Norma za proizvod

FprEN 3646-001 en  
Aerospace series – Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous – Part 001: Technical specification  
Nizovi o zrakoplovstvu – Spojnice, električne, kružne, bajonetni spoj, stalne radne temperature 175 °C ili 200 °C – 001. dio: Tehnička specifikacija

FprEN 3646-004 en  
Aerospace series – Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous – Part 004: Receptacle, jam-nut mounting – Product standard  
Nizovi o zrakoplovstvu – Spojnice, električne, kružne, bajonetni spoj, stalne radne temperature 175 °C ili 200 °C – 004. dio: Utična kutija, namijenjena ugradbi nabijanjem – Norma za proizvod

FprEN 3660-001 en  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 001: Technical specification  
Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 001. dio: Tehnička specifikacija

FprEN 3660-002 en  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 002: Index of product standards  
Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 002. dio: Indeks norma za proizvod

- FprEN 3660-062 rev en  
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 – Product standard  
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, zabrtvljeni, samozatvarajući za EN 3645 – Norma za proizvod
- FprEN 3660-063 rev en  
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 – Product standard  
Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 063. dio: Kabelski izlaz, tip K, ravni, za elemente koje se skupljaju na toplini, oklopljeni, zabrtvljeni, samozatvarajući – Norma za proizvod
- FprEN 3660-064 rev en  
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 – Product standard  
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, zabrtvljeni, samozatvarajući – Norma za proizvod
- FprEN 3660-065 rev en  
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  
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, zabrtvljeni, samozatvarajući – Norma za proizvod
- FprEN 4165-026 en  
Aerospace series – Connector, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 026: Accessories for single module connector – Product standard  
Nizovi o zrakoplovstvu – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – 026. dio: Oprema za samostalne module – Norma za proizvod
- FprEN 4165-027 en  
Aerospace series – Connector, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 027: Rack and panel rear mounted plug – Product standard
- FprEN 4531-002 en  
Aerospace series – Connectors, optical, circular, single and multipin, coupled by triple start threaded ring – Flush contacts – Part 002: Specification of performance and contact arrangements  
Nizovi o zrakoplovstvu – Spojnice, optičke, kružne, jednostruke i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravni kontakti – 002. dio: Specifikacije značajki i položaj kontakata
- FprEN 4531-101 en  
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  
Nizovi o zrakoplovstvu – Spojnice, optičke, kružne, jednostruke i s više igala, spajanje navojnim prstenom s trostrukim navojem – Ravni kontakti – 101. dio: Optički kontakt za EN 4641 kabel – 55 °C to 125 °C – Norma za proizvod
- FprEN 4531-201 en  
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 4641-101:2015 en  
Aerospace series – Cables, optical 125 µm diameter cladding – Part 101: Tight structure 62,5 µm core GI fibre 0,9 mm outside diameter – Product standard
- FprEN 4644-011 en  
Aerospace series – Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous – Part 011: Plug, size 1, class A, C and E – Product standard
- FprEN 4644-012 en  
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
- FprEN 4644-013 en  
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, class B and F – Product standard
- FprEN 4644-014 en  
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
- FprEN 4644-021 en  
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
- FprEN 4644-022 en  
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
- FprEN 4644-023 en  
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
- FprEN 4644-024 en  
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
- FprEN 4644-025 en  
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
- FprEN 4644-026 en  
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
- FprEN 4644-131 rev en  
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  
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
- FprEN 4644-201 en  
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
- FprEN 4652-210 en  
Aerospace series – Connectors, coaxial, radio frequency – Part 210: Type 2, TNC interface – Clamp nut assembly version – Straight plug – Product standard
- FprEN 4652-213 en  
Aerospace series – Connectors, coaxial, radio frequency – Part 213: Type 2, TNC interface – Clamp nut assembly version – Bulkhead receptacle – Product standard
- FprEN 4652-311 en  
Aerospace series – Connectors, coaxial, radio frequency – Part 311: Type 3, N interface – Clamp nut assembly version – Right angle plug – Product standard

FprEN 4652-312 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 312: Type 3, N interface – Clamp nut assembly version  
– Square flange receptacle – Product standard

FprEN 4652-313 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 313: Type 3, N interface – Clamp nut assembly version  
– Bulkhead receptacle – Product standard

FprEN 4652-410 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 410: Type 4, C interface – Clamp nut assembly version  
– Straight plug – Product standard

FprEN 4652-411 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 411: Type 4, C interface – Clamp nut assembly version  
– Right angle plug – Product standard

FprEN 4652-412 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 412: Type 4, C interface – Clamp nut assembly version  
– Square flange receptacle – Product standard

FprEN 4652-413 en  
Aerospace series – Connectors, coaxial, radio frequency  
– Part 413: Type 4, C interface – Clamp nut assembly version  
– Bulkhead receptacle – Product standard

EN 4674-001:2015 en  
Aerospace series – Electrical cables; installation – Self-wrapping shielding (EMI) protective sleeve – Part 001: Technical specification

EN 4674-002:2015 en  
Aerospace series – Electrical cables; installation – Self-wrapping shielding (EMI) protective sleeve – Part 002: General and list of product standard

EN 4674-003:2015 en  
Aerospace series – Electrical cables; installation – Self-wrapping shielding (EMI) protective sleeve – Part 003: Open sleeve – Inside pressurized area – EMI protection 5 kA – Temperature range - 65 °C to 200 °C – Product standard

EN 4674-004:2015 en  
Aerospace series – Electrical cables; installation – Self-wrapping shielding (EMI) protective sleeve – Part 004: Open sleeve – Outside pressurized area – EMI protection 10 kA – Temperature range - 65 °C to 200 °C – Product standard

EN 9110:2015 en  
Quality Management Systems – Requirements for Aviation Maintenance Organizations  
Sustavi upravljanja kvalitetom – Zahtjevi za organizacije koje održavaju zrakoplove

FprEN 9130 en  
Aerospace series – Quality systems – Record retention

FprEN 9239 en  
Aerospace series – Programme Management – Guide for the risk management

EN 16307-1:2013/FprA1 en  
Industrial trucks – Safety requirements and verification – Part 1: Supplementary requirements for self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks  
Industrijski kamioni – Sigurnosni zahtjevi i potvrđivanje – 1. dio: Dodatni zahtjevi za industrijske kamione s vlastitim pogonom osim kamiona bez vozača, kaminona različitoga dometa i teretnih kamiona

prEN 16842-1 en  
Powered industrial trucks – Visibility – Test method for verification – Part 1: General requirements

prEN 16842-2 en  
Powered industrial trucks – Visibility – Test method for verification – Part 2: Sit-on counter balanced trucks and rough terrain masted trucks up to and including 10 000 kg capacity

## HZN/TU U1, *Opća elektrotehnika 1*

FprEN 60127-7:2015 en  
Miniature fuses – Part 7: Miniature fuse-links for special applications (IEC 60127-7:201X)  
Minijaturni osigurači – 7. dio: Minijaturni rastalni ulošci osigurača za specijalne primjene (IEC 60127-7:201X)

## HZN/TU V1, *Elektronika 1*

FprEN 60068-3-13:2015 en  
Environmental testing – Part 3-13: Supporting documentation and guidance on test T: Soldering (IEC 60068-3-13:201X)

FprEN 60153-1:2015 en  
Hollow metallic waveguides – Part 1: General requirements and measuring method (IEC 60153-1:201X)

FprEN 60153-2:2015 en  
Hollow metallic waveguides – Part 2: Relevant specifications for ordinary rectangular waveguides (IEC 60153-2:201X)

FprEN 60154-1:2015 en  
Flanges for waveguides – Part 1: General requirements (IEC 60154-1:201X)

FprEN 60154-2:2015 en  
Flanges for waveguides – Part 2: Relevant specifications for flanges for ordinary rectangular waveguides (IEC 60154-2:201X)

FprEN 60297-3-109:2015 en  
Mechanical structures for electronic equipment – dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-109: Dimensions of chassis for embedded computing (IEC 60297-3-109:201X)

FprEN 60603-7-82:2015 en  
Connectors for electronic equipment – Part 7-82: Detail specification for 8-way, shielded, individual pair shielded, free and fixed connectors, for data transmission with frequencies up to 2 000 mhz (IEC 60603-7-82:201X)

FprEN 60793-2:2015 en  
Optical fibres – Part 2: Product specifications – General (IEC 60793-2:201X)

EN 60794-3-10:2015 en  
Optical fibre cables – Part 3-10: Outdoor cables – Family specification for duct; directly buried or lashed aerial optical telecommunication cables (IEC 60794-3-10:2015)

FprEN 61010-2-011:2015 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-011: Particular requirements for REFRIGERATED EQUIPMENT (IEC 61010-2-011:201X)

FprEN 61010-2-012:2015 en  
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment (IEC 61010-2-012:201X)

FprEN 61010-2-120:2015 en  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-120: Particular safety requirements for machinery (IEC 61010-2-120:201X)

FprEN 61076-3-110:2015 en  
Connectors for electronic equipment – Product requirements – Part 3-110: detail specification for free and fixed connectors for data transmission with frequencies up to 3 000 mhz (IEC 61076-3-110:201X)

EN 61169-48:2015 en  
Radio-frequency connectors – Part 48: Sectional specification for series BMP R.F. coaxial connectors (IEC 61169-48:2014)

FprEN 61196-10:2015 en  
Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric (IEC 61196-10:2014)

FprEN 61300-1:2015 en  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance (IEC 61300-1:201X)

FprEN 61730-1:2015 en  
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction (IEC 61730-1:201X)  
Svojstvo sigurnosti fotonaponskog modula – 1. dio: Zahtjevi za konstrukciju (izgradnju) (IEC 61730-1:201X)

- FprEN 61730-2:2015 en  
Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing (IEC 61730-2:201X)  
Svojstvo sigurnosti fotonaponskog modula – 2. dio: Zahtjevi za ispitivanje (IEC 61730-2:201X)
- prEN 61754-32 en  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 32: Type DiaLink connector family (IEC 61754-32:201X)
- FprEN 61977:2015 en  
Fibre optic interconnecting devices and passive components – Fibre optic filters – Generic specification (IEC 61977:201X)
- FprEN 62077:2015 en  
Fibre optic interconnecting devices and passive components – Fibre optic circulators – Generic specification (IEC 62077:201X)
- FprEN 62129-1:2015 en  
Calibration of wavelength/optical frequency measurement instruments – Part 1: Optical spectrum analyzers (IEC 62129-1:201X)
- FprEN 62343-4-1:2015 en  
Dynamic modules – Software and hardware interface standards – Part 4-1: 1x9 wavelength selective switch (IEC 62343-4-1:201X)
- FprEN 62433-4:2015 en  
EMC IC modelling – Part 4: Models of Integrated Circuits for RF Immunity behavioural simulation – Conducted Immunity modelling (ICIM-CI) (IEC 62433-4:201X)
- FprEN 62572-3:2015 en  
Fibre optic active components and devices – Reliability standards – Part 3: Laser modules used for telecommunication (IEC 62572-3:201X)
- FprEN 62899-1:2015 en  
Printed electronics – Materials – Part 1: Substrates (IEC 62899-1:201X)
- FprEN 62899-2-1:2015 en  
Printing electronics – Materials – Part 2-1: Conductive material Ink (IEC 62899-2-1:201X)

## HZN/TU W1, Energetska elektrotehnika 1

- EN 62246-1:2015 en  
Reed switches – Part 1: Generic specification (IEC 62246-1:2015)  
Cijevni prekidači – 1. dio: Generička specifikacija (IEC 62246-1:2015)
- FprEN 62282-6-200:2015 en  
Fuel cell technologies – Part 6-200: Micro fuel cell power systems – Performance test methods (IEC 62282-6-200:201X)  
Tehnologija gorivih članaka – Dio 6-200: Energetski sustavi s gorivim mikročlancima – Metode ispitivanja značajki (IEC 62282-6-200:201X)

## 1.4 Povučene hrvatske norme

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

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

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

- HRN ISO 776:2001 en  
Pulpe – Određivanje pepela netopivog u kiselini (ISO 776:1982)  
Pulps – Determination of acid-insoluble ash (ISO 776:1982)  
- zamijenjena s: HRN ISO 776:2015

- HRN ISO 2469:2011 en  
Papir, karton i pulpe – Mjerenje faktora sjajnosti difuznog svjetla (ISO 2469:2007)  
Paper, board and pulps – Measurement of diffuse radiance factor (ISO 2469:2007)  
- zamijenjena s: HRN ISO 2469:2015
- HRN ISO 3781:2002 en  
Papir i karton – Određivanje vlačne čvrstoće nakon uranjanja u vodu (ISO 3781:1983)  
Paper and board – Determination of tensile strength after immersion in water (ISO 3781:1983)  
- zamijenjena s: HRN ISO 3781:2015
- HRN ISO 5628:2002 en  
Papir i karton – Određivanje krutosti statičkom metodom – Opća načela (ISO 5628:1990)  
Paper and board – Determination of bending stiffness by static methods – General principles (ISO 5628:1990)  
- zamijenjena s: HRN ISO 5628:2015
- HRN ISO 5636-3:2002 en  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 3. dio: Bendtsenova metoda (ISO 5636-3:1992)  
Paper and board: Determination of air permeance (medium range) – Part 3: Bendtsen method (ISO 5636-3:1992)  
- zamijenjena s: HRN ISO 5636-3:2015
- HRN ISO 5636-4:2011 en  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 4. dio: Scheffieldova metoda (ISO 5636-4:2005)  
Paper and board – Determination of air permeance (medium range) – Part 4: Sheffield method (ISO 5636-4:2005)  
- zamijenjena s: HRN ISO 5636-4:2015
- HRN ISO 5636-5:2011 en  
Papir i karton – Određivanje propusnosti zraka (srednji opseg) – 5. dio: Gurleyeva metoda (ISO 5636-5:2003)  
Paper and board – Determination of air permeance and air resistance (medium range) – Part 5: Gurley method (ISO 5636-5:2003)  
- zamijenjena s: HRN ISO 5636-5:2015
- HRN ISO 6588-1:2011 en  
Papir, karton i pulpe – Određivanje pH vrijednosti vodenih ekstrakta – 1. dio: Hladna ekstrakcija (ISO 6588-1:2005)  
Paper, board and pulps – Determination of pH of aqueous extracts – Part 1: Cold extraction (ISO 6588-1:2005)  
- zamijenjena s: HRN ISO 6588-1:2015
- HRN ISO 6588-2:2011 en  
Papir, karton i pulpe – Određivanje pH vrijednosti vodenih ekstrakta – 2. dio: Vruća ekstrakcija (ISO 6588-2:2005)  
Paper, board and pulps – Determination of pH of aqueous extracts – Part 2: Hot extraction (ISO 6588-2:2005)  
- zamijenjena s: HRN ISO 6588-2:2015
- HRN ISO 8784-1:2011 en  
Pulpa, papir i karton – Mikrobiološko ispitivanje – 1. dio: Ukupni broj bakterija, kvasaca i pljesni utemeljenih na raspadanju (ISO 8784-1:2005)  
Pulp, paper and board – Microbiological examination – Part 1: Total count of bacteria, yeast and mould based on disintegration (ISO 8784-1:2005)  
- zamijenjena s: HRN ISO 8784-1:2015
- HRN ISO 8791-2:2001 en  
Papir i karton – Određivanje hrapavosti/glatkoće (metode propuštanja zraka) – 2. dio: Bendtsenova metoda (ISO 8791-2:1990)  
Paper and board – Determination of roughness/smoothness (air leak methods) – Part 2: Bendtsen method (ISO 8791-2:1990)  
- zamijenjena s: HRN ISO 8791-2:2015
- HRN ISO 10775:2002 en  
Papir, karton i pulpe – Određivanje sadržaja kadmija – Metoda atomske apsorpcijske spektrometrije (ISO 10775:1995)  
Paper, board and pulps – Determination of cadmium content – Atomic absorption spectrometric method (ISO 10775:1995)  
- zamijenjena s: HRN ISO 10775:2015
- HRN EN ISO 12625-9:2008 en  
Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 9. dio: Određivanje čvrstoće prskanja kuglicom (ISO 12625-9:2005; EN ISO 12625-9:2005)  
Tissue paper and tissue products – Part 9: Determination of ball burst strength (ISO 12625-9:2005; EN ISO 12625-9:2005)  
- zamijenjena s: HRN EN ISO 12625-9:2015

HRN ISO 13820:2002 en  
Papir, karton i valoviti karton – Opis i umjeravanje opreme za ispitivanje stlačivanja (ISO 13820:1996)  
Paper, board and corrugated fibreboard – Description and calibration of compression-testing equipment (ISO 13820:1996)  
- zamijenjena s: HRN ISO 13820:2015

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

HRN EN 1808:2010 en  
Zahtjevi za sigurnost viseće skele – Projektni proračuni, kriteriji stabilnosti, konstrukcija – Ispitivanja (EN 1808:1999+A1:2010)  
Safety requirements on Suspended Access Equipment – Design calculations, stability criteria, construction – Tests (EN 1808:1999+A1:2010)  
- zamijenjena s: HRN EN 1808:2015

HRN EN ISO 15364:2004 en  
Brodovi i pomorska tehnologija – Tlačno/vakuumski ventili za tankove tereta (ISO 15364:2000; EN ISO 15364:2001)  
Ships and marine technology – Pressure/vacuum valves for cargo tanks (ISO 15364:2000; EN ISO 15364:2001)  
- zamijenjena s: HRN ISO 15364:2015

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

HRN EN 13790-1:2008 en  
Poljoprivredna mehanizacija – Prskalice – Inspekcija prskalica u upotrebi – 1. dio: Prskalice za zaštitu ratarskih kultura (EN 13790-1:2003)  
Agricultural machinery – Sprayers – Inspection of sprayers in use – Part 1: Field crop sprayers (EN 13790-1:2003)  
- zamijenjena s: HRN EN ISO 16122-2:2015

HRN EN 13790-2:2008 en  
Poljoprivredna mehanizacija – Prskalice – Inspekcija prskalica u radu – 2. dio: Prskalice potpomognute zrakom (orošivači) za zaštitu grmlja i drvenih nasada (EN 13790-2:2003)  
Agricultural machinery – Sprayers – Inspection of sprayers in use – Part 2: Air-assisted sprayers for bush and tree crops (EN 13790-2:2003)  
- zamijenjena s: HRN EN ISO 16122-3:2015

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

HRN EN 1559-4:2001 en  
Ljevarstvo – Tehnički uvjeti isporuke – 4. dio: Dodatni zahtjevi za odljevke od aluminijevih legura (EN 1559-4:1999)  
Founding – Technical conditions of delivery – Part 4: Additional requirements for aluminium alloy castings (EN 1559-4:1999)  
- zamijenjena s: HRN EN 1559-4:2015

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

HRN EN ISO 3679:2004 en  
Određivanje točke paljenja – Metoda brze ravnoteže u zatvorenoj posudi (ISO 3679:2004; EN ISO 3679:2004)  
Determination of flash point – Rapid equilibrium closed cup method (ISO 3679:2004; EN ISO 3679:2004)  
- zamijenjena s: HRN EN ISO 3679:2015

HRN EN ISO 3680:2005 en  
Određivanje zapaljivosti/nezapaljivosti – Metoda brzom ravnotežom u zatvorenoj posudi (ISO 3680:2004; EN ISO 3680:2004)  
Determination of flash/no flash – Rapid equilibrium closed cup method (ISO 3680:2004; EN ISO 3680:2004)  
- zamijenjena s: HRN EN ISO 3679:2015

HRN ISO 9091-1:2002 en  
Pothlađeni laki ugljikovodici – Umjeravanje sferičnih spremnika u brodovima – 1. dio: Stereo-fotogrametrija (ISO 9091-1:1991)  
Refrigerated light hydrocarbon fluids – Calibration of spherical tanks in ships – Part 1: Stereo-photogrammetry (ISO 9091-1:1991)  
- bez zamjene

HRN ISO 9091-2:2002 en  
Pothlađeni laki ugljikovodici – Umjeravanje sferičnih spremnika u brodovima – 2. dio: Triangulacijsko mjerenje (ISO 9091-2:1992)  
Refrigerated light hydrocarbon fluids – Calibration of spherical tanks in ships – Part 2: Triangulation measurement (ISO 9091-2:1992)  
- bez zamjene

HRN EN 16136:2012 en  
Goriva za motorna vozila – Određivanje količine mangana u bezolovnim motornim benzinima – Metoda optičke emisijske spektralne analize s induktivno spregnutom plazmom (ICP OES) (EN 16136:2011)  
Automotive fuels – Determination of manganese content in unleaded petrol – Inductively coupled plasma optical emission spectrometry (ICP OES) method (EN 16136:2011)  
- zamijenjena s: HRN EN 16136:2015

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

HRN EN 15948:2012 en  
Žitarice – Određivanje vlage i proteina – Metoda primjenom bliske infracrvene spektroskopije u cijelom zrnu (EN 15948:2012)  
Cereals – Determination of moisture and protein – Method using Near-Infrared-Spectroscopy in whole kernels (EN 15948:2012)  
- zamijenjena s: HRN EN 15948:2015

## **HZN/TO 34/PO 7, Poljoprivredni i prehrambeni proizvodi; Kava, čaj, mirodije i začini**

HRN EN ISO 3493:2008 en.fr  
Vanilija – Rječnik (ISO 3493:1999; EN ISO 3493:2007)  
Vanilla – Vocabulary (ISO 3493:1999; EN ISO 3493:2007)  
- zamijenjena s: HRN EN ISO 3493:2015

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

HRN EN ISO 9453:2008 en  
Legure mekih lemova – Kemijski sastavi i oblici isporuke (ISO 9453:2006; EN ISO 9453:2006)  
Soft solder alloys – Chemical compositions and forms (ISO 9453:2006; EN ISO 9453:2006)  
- zamijenjena s: HRN EN ISO 9453:2015

HRN EN ISO 10447:2008 en  
Elektrootporno zavarivanje – Ispitivanje elektrootporno zavarenih točkastih i bradavičastih zavara ljuštenjem i razdvajanjem klinom (ISO 10447:2006; EN ISO 10447:2007)  
Resistance welding – Peel and chisel testing of resistance spot and projection welds (ISO 10447:2006; EN ISO 10447:2007)  
- zamijenjena s: HRN EN ISO 10447:2015

HRN EN ISO 14323:2008 en  
Elektrootporno točkasto i bradavičasto zavarivanje – Razorno ispitivanje zavara – Dimenzije ispitnog uzorka i postupak za udarno posmično i križno-vlačno ispitivanje (ISO 14323:2006; EN ISO 14323:2006)  
Resistance spot welding and projection welds – Destructive testing of welds – Specimen dimensions and procedure for impact shear test and cross-tension testing (ISO 14323:2006; EN ISO 14323:2006)  
- zamijenjena s: HRN EN ISO 14323:2015

HRN EN ISO 14373:2008 en  
Elektrootporno zavarivanje – Postupak za točkasto zavarivanje niskougljičnih čelika s prevlakom i bez prevlake (ISO 14373:2006; EN ISO 14373:2007)  
Resistance welding – Procedure for spot welding of uncoated and coated low carbon steels (ISO 14373:2006; EN ISO 14373:2007)  
- bez zamjene

HRN EN ISO 23277:2010 en  
Nerazorno ispitivanje zavara – Ispitivanje zavara penetrantima – Razine prihvatljivosti (ISO 23277:2006; EN ISO 23277:2009)  
Non-destructive testing of welds – Penetrant testing of welds – Acceptance levels (ISO 23277:2006; EN ISO 23277:2009)  
- zamijenjena s: HRN EN ISO 23277:2015

HRN EN ISO 23278:2010 en  
Nerazorno ispitivanje zavara – Ispitivanje zavara magnetskim česticama – Razine prihvatljivosti (ISO 23278:2006; EN ISO 23278:2009)  
Non-destructive testing of welds – Magnetic particle testing of welds – Acceptance levels (ISO 23278:2006; EN ISO 23278:2009)  
- zamijenjena s: HRN EN ISO 23278:2015

## **HZN/TO 54, Eterična ulja**

HRN ISO 3218:2004 en  
Eterična ulja – Načela nomenklature (ISO 3218:1976)  
Essential oils – Principles of nomenclature (ISO 3218:1976)  
- zamijenjena s: HRN EN ISO 3218:2015

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

- HRN EN 13282-3:2013 en  
Hidraulična veziva za ceste – 3. dio: Vrednovanje sukladnosti (EN 13282-3:2013)  
Hydraulic road binders – Part 3: Conformity evaluation (EN 13282-3:2013)  
- zamijenjena s: HRN EN 13282-3:2015

## **HZN/TO 89, Furniri i drvne ploče**

- HRN EN 636:2012 en  
Uslojeno drvo – Specifikacije (EN 636:2012)  
Plywood – Specifications (EN 636:2012)  
- zamijenjena s: HRN EN 636:2015
- HRN EN 13986:2008 en  
Ploče na osnovi drva za uporabu u graditeljstvu – Karakteristike, ocjenjivanje sukladnosti i označivanje (EN 13986:2004)  
Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking (EN 13986:2004)  
- zamijenjena s: HRN EN 13986:2015

## **HZN/TO 92, Zaštita od požara**

- HRN EN 1365-2:2002 en  
Ispitivanja otpornosti na požar nosivih elemenata – 2. dio: Međukatne i krovne konstrukcije (EN 1365-2:1999)  
Fire resistance tests for loadbearing elements – Part 2: Floors and roofs (EN 1365-2:1999)  
- zamijenjena s: HRN EN 1365-2:2015

## **HZN/TO 120, Koža i obuća**

- HRN EN ISO 14931:2008 en  
Koža – Upute za odabir kože za odjeću (isključujući krzna) (ISO 14931:2004; EN ISO 14931:2004)  
Leather – Guide to the selection of leather for apparel (excluding furs) (ISO 14931:2004; EN ISO 14931:2004)  
- zamijenjena s: HRN EN ISO 14931:2015
- HRN EN ISO 17070:2008 en  
Koža – Kemijska ispitivanja – Određivanje sadržaja pentaklorofenola (ISO 17070:2006; EN ISO 17070:2006)  
Leather – Chemical tests – Determination of pentachlorophenol content (ISO 17070:2006; EN ISO 17070:2006)  
- zamijenjena s: HRN EN ISO 17070:2015
- HRN EN ISO 17228:2008 en  
Koža – Ispitivanje postojanosti obojenja – Promjena tona boje ubrzanim starenjem (ISO 17228:2005; EN ISO 17228:2006)  
Leather – Tests for colour fastness – Change in colour with accelerated ageing (ISO 17228:2005; EN ISO 17228:2006)  
- zamijenjena s: HRN EN ISO 17228:2015
- HRN EN ISO 17234-1:2010 en  
Koža – Kemijska ispitivanja za određivanje određenih azo bojila u obojenoj koži – 1. dio: Određivanje određenih aromatskih amina dobivenih iz azo bojila (ISO 17234-1:2010; EN ISO 17234-1:2010)  
Leather – Chemical tests for the determination of certain azo colorants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colorants (ISO 17234-1:2010; EN ISO 17234-1:2010)  
- zamijenjena s: HRN EN ISO 17234-1:2015

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

- HRN EN 1865-2:2010 en  
Oprema za postupanje s bolesnikom koja se upotrebljava u cestovnim ambulantskim vozilima – 2. dio: Ležaj s pogonom (EN 1865-2:2010)  
Patient handling equipment used in road ambulances – Part 2: Power assisted stretcher (EN 1865-2:2010)  
- zamijenjena s: HRN EN 1865-2:2015
- HRN EN 1865-3:2012 en  
Oprema za postupanje s bolesnikom koja se upotrebljava u cestovnim ambulantskim vozilima – 3. dio: Ležaj s pojačanim osobinama (EN 1865-3:2012)  
Patient handling equipment used in road ambulances – Part 3: Heavy duty stretcher (EN 1865-3:2012)  
- zamijenjena s: HRN EN 1865-3:2015

- HRN EN ISO 5356-1:2008 en  
Anestetička i respiracijska oprema – Stožasti priključci – 1. dio: Stožasti utikači i utičnice (ISO 5356-1:2004; EN ISO 5356-1:2004)  
Anaesthetic and respiratory equipment – Conical connectors – Part 1: Cones and sockets (ISO 5356-1:2004; EN ISO 5356-1:2004)  
- zamijenjena s: HRN EN ISO 5356-1:2015

- HRN EN 13718-2:2010 en  
Medicinska vozila i njihova oprema – Zračna ambulanta – 2. dio: Radni i tehnički zahtjevi za zračne ambulante (EN 13718-2:2008)  
Medical vehicles and their equipment – Air ambulances – Part 2: Operational and technical requirements of air ambulances (EN 13718-2:2008)  
- zamijenjena s: HRN EN 13718-2:2015

## **HZN/TO 130, Grafička tehnologija**

- HRN ISO 12647-5:2008 en  
Grafička tehnologija – Kontrola postupaka za kontrolu rasterskih izvadaka, probnog i proizvodnog otiska – 5. dio: Sitotisk (ISO 12647-5:2001)  
Graphic technology – Process control for the manufacture of half-tone colour separations, proof and production prints – Part 5: Screen printing (ISO 12647-5:2001)  
- zamijenjena s: HRN ISO 12647-5:2015

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

- HRN EN 712:2003 en  
Plastomerni cijevni sustavi – Spojevi tlačnih cijevi i spojnice izloženih vučnom opterećenju – Ispitna metoda za određivanje otpora izvlačenju uz konstantno opterećenje (EN 712:1993)  
Thermoplastics piping systems – End-load-bearing mechanical joints between pressure pipes and fittings – Test method for resistance to pull-out under constant longitudinal force (EN 712:1993)  
- zamijenjena s: HRN EN ISO 3501:2015
- HRN EN 713:2003 en  
Plastični cijevni sustavi – Mehanički spojevi spojnice i poliolefinskih tlačnih cijevi – Ispitna metoda za nepropusnost sklopova pod unutarnjim tlakom pri savijanju (EN 713:1993)  
Plastics piping systems – Mechanical joints between fittings and polyolefin pressure pipes – Test method for leaktightness under internal pressure of assemblies subjected to bending (EN 713:1993)  
- zamijenjena s: HRN EN ISO 3503:2015
- HRN EN 715:2003 en  
Plastomerni cijevni sustavi – Spojevi tlačnih cijevi malog promjera i spojnice izloženih uzdužnom opterećenju – Ispitna metoda za nepropusnost pod unutarnjim tlakom vode i s uzdužnim opterećenjem (EN 715:1994)  
Thermoplastics piping systems – End-load-bearing joints between small diameter pressure pipes and fittings – Test method for leaktightness under internal water pressure, including end thrust (EN 715:1994)  
- zamijenjena s: HRN EN ISO 3458:2015
- HRN EN 911:2003 en  
Plastični cijevni sustavi – Spojevi s elastomernom prstenastom brtvom i mehanički spojevi za plastomerne tlačne cjevovode – Ispitna metoda za nepropusnost pri vanjskom hidrostatskom tlaku (EN 911:1995)  
Plastics piping systems – Elastomeric sealing ring type joints and mechanical joints for thermoplastics pressure piping – Test method for leaktightness under external hydrostatic pressure (EN 911:1995)  
- zamijenjena s: HRN EN ISO 3459:2015
- HRN EN ISO 6259-1:2004 en  
Plastomerne cijevi – Određivanje rasteznih svojstava – 1. dio: Opća ispitna metoda (ISO 6259-1:1997; EN ISO 6259-1:2001)  
Thermoplastics pipes – Determination of tensile properties – Part 1: General test method (ISO 6259-1:1997; EN ISO 6259-1:2001)  
- zamijenjena s: HRN EN ISO 6259-1:2015

HRN EN 12117:2002 en  
Plastični cijevni sustavi – Spojnice, ventili i pribor – Određivanje odnosa između brzine protoka plina i pada tlaka (EN 12117:1997)  
Plastics piping systems – Fittings, valves and ancillaries – Determination of gaseous flow rate/pressure drop relationships (EN 12117:1997)  
- zamijenjena s: HRN EN ISO 17778:2015

HRN EN ISO 13844:2007 en  
Plastični cijevni sustavi – Spojni naglavci od neomekšanoga poli(vinil-klorida) (PVC-U) s elastomernom prstenastom brtvom za cijevi od PVC-U – Ispitna metoda za nepropusnost pri podtlaku (ISO 13844:2000; EN ISO 13844:2000)  
Plastics piping systems – Elastomeric-sealing-ring-type socket joints of unplasticized poly(vinyl chloride) (PVC-U) for use with PVC-U pipes – Test method for leaktightness under negative pressure (ISO 13844:2000; EN ISO 13844:2000)  
- zamijenjena s: HRN EN ISO 13844:2015

HRN EN ISO 13845:2007 en  
Plastični cijevni sustavi – Spojni naglavci od neomekšanoga poli(vinil-klorida) (PVC-U) s elastomernom prstenastom brtvom za cijevi od PVC-U – Ispitna metoda za nepropusnost pri unutarnjemu tlaku i s kutnim otklonom (ISO 13845:2000; EN ISO 13845:2000)  
Plastics piping systems – Elastomeric-sealing-ring-type socket for use with unplasticized poly(vinyl chloride) (PVC-U) pipes – Test method for leaktightness under internal pressure and with angular deflection (ISO 13845:2000; EN ISO 13845:2000)  
- zamijenjena s: HRN EN ISO 13845:2015

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

HRN EN ISO 7250:2003 en  
Temeljna antropološka mjerenja ljudskog tijela za tehnološki dizajn (ISO 7250:1996; EN ISO 7250:1997)  
Basic human body measurements for technological design (ISO 7250:1996; EN ISO 7250:1997)  
- zamijenjena s: HRN EN ISO 7250-1:2011

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

HRN EN 13162:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od mineralne vune (MW) – Specifikacija (EN 13162:2012)  
Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification (EN 13162:2012)  
- zamijenjena s: HRN EN 13162:2015

HRN EN 13163:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog polistirena (EPS) – Specifikacija (EN 13163:2012)  
Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification (EN 13163:2012)  
- zamijenjena s: HRN EN 13163:2015

HRN EN 13164:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekstrudirane polistirenske pjene (XPS) – Specifikacija (EN 13164:2012)  
Thermal insulation products for buildings – Factory made extruded polystyrene foam (XPS) products – Specification (EN 13164:2012)  
- zamijenjena s: HRN EN 13164:2015

HRN EN 13165:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od tvrde poliuretanske pjene (PUR) – Specifikacija (EN 13165:2012)  
Thermal insulation products for buildings – Factory made rigid polyurethane foam (PU) products – Specification (EN 13165:2012)  
- zamijenjena s: HRN EN 13165:2015

HRN EN 13166:2012 en  
Toplinsko izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od fenolne pjene (PF) – Specifikacija (EN 13166:2012)  
Thermal insulation products for buildings – Factory made phenolic foam (PF) products – Specification (EN 13166:2012)  
- zamijenjena s: HRN EN 13166:2015

HRN EN 13167:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od čeljustog (pjenastog) stakla (CG) – Specifikacija (EN 13167:2012)  
Thermal insulation products for buildings – Factory made cellular glass (CG) products – Specification (EN 13167:2012)  
- zamijenjena s: HRN EN 13167:2015

HRN EN 13168:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od drvene vune (WW) – Specifikacija (EN 13168:2012)  
Thermal insulation products for buildings – Factory made wood wool (WW) products – Specification (EN 13168:2012)  
- zamijenjena s: HRN EN 13168:2015

HRN EN 13169:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog perlit (EPB) – Specifikacija (EN 13169:2012)  
Thermal insulation products for buildings – Factory made expanded perlite board (EPB) products – Specification (EN 13169:2012)  
- zamijenjena s: HRN EN 13169:2015

HRN EN 13170:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od ekspaniranog pluta (ICB) – Specifikacija (EN 13170:2012)  
Thermal insulation products for buildings – Factory made products of expanded cork (ICB) – Specification (EN 13170:2012)  
- zamijenjena s: HRN EN 13170:2015

HRN EN 13171:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od drvenih vlakana (WF) – Specifikacija (EN 13171:2012)  
Thermal insulation products for buildings – Factory made wood fibre (WF) products – Specification (EN 13171:2012)  
- zamijenjena s: HRN EN 13171:2015

HRN EN 16012:2012 en  
Toplinska izolacija za zgrade – Reflektirajući izolacijski proizvodi – Određivanje deklariranoga toplinskog svojstva (EN 16012:2012)  
Thermal insulation for buildings – Reflective insulation products – Determination of the declared thermal performance (EN 16012:2012)  
- zamijenjena s: HRN EN 16012:2015

HRN EN 16069:2012 en  
Toplinsko-izolacijski proizvodi za zgrade – Tvornički izrađeni proizvodi od polietilenske pjene (PEF) – Specifikacija (EN 16069:2012)  
Thermal insulation products for buildings – Factory made products of polyethylene foam (PEF) – Specification (EN 16069:2012)  
- zamijenjena s: HRN EN 16069:2015

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

HRN EN ISO 11979-8:2010 en  
Oftalmološki implantanti – Intraokularne leće – 8. dio: Osnovni zahtjevi (ISO 11979-8:2006; EN ISO 11979-8:2009)  
Ophthalmic implants – Intraocular lenses – Part 8: Fundamental requirements (ISO 11979-8:2006; EN ISO 11979-8:2009)  
- zamijenjena s: HRN EN ISO 11979-8:2015

HRN EN ISO 11979-8:2010/A1:2011 en  
Oftalmološki implantanti – Intraokularne leće – 8. dio: Osnovni zahtjevi (ISO 11979-8:2006/Amd 1:2011; EN ISO 11979-8:2009/A1:2011)  
Ophthalmic implants – Intraocular lenses – Part 8: Fundamental requirements (ISO 11979-8:2006/Amd 1:2011; EN ISO 11979-8:2009/A1:2011)  
- zamijenjena s: HRN EN ISO 11979-8:2015

HRN EN ISO 14534:2011 en  
Oftalmološka optika – Kontaktne leće i proizvodi za njegu kontaktnih leća – Osnovni zahtjevi (ISO 14534:2011; EN ISO 14534:2011)  
Ophthalmic optics – Contact lenses and contact lens care products – Fundamental requirements (ISO 14534:2011; EN ISO 14534:2011)  
- zamijenjena s: HRN EN ISO 14534:2015



## HZN/TO 196, *Prirodni kamen*

HRN EN 1469:2005 en  
Proizvodi od prirodnog kamena – Ploče za oblaganje – Zahtjevi (EN 1469:2004)  
Natural stone products – Slabs for cladding – Requirements (EN 1469:2004)  
- zamijenjena s: HRN EN 1469:2015

HRN EN 12057:2005 en  
Proizvodi od prirodnog kamena – Modularne ploče – Zahtjevi (EN 12057:2004)  
Natural stone products – Modular tiles – Requirements (EN 12057:2004)  
- zamijenjena s: HRN EN 12057:2015

HRN EN 12058:2005 en  
Proizvodi od prirodnog kamena – Ploče za podove i stube – Zahtjevi (EN 12058:2004)  
Natural stone products – Slabs for floors and stairs – Requirements (EN 12058:2004)  
- zamijenjena s: HRN EN 12058:2015

## HZN/TO 217, *Kozmetika*

HRN ISO 15819:2009 en  
Kozmetika – Analitičke metode – Nitrozamini: Dokazivanje i određivanje N-nitrozodietanolamina (NDELA) u kozmetičkim proizvodima HPLC-MS-MS tehnikom (ISO 15819:2008)  
Cosmetics – Analytical methods – Nitrosamines: Detection and determination of N-nitrosodiethanolamine (NDELA) in cosmetics by HPLC-MS-MS (ISO 15819:2008)  
- zamijenjena s: HRN ISO 15819:2015

## HZN/TO 219, *Podne obloge*

HRN EN 13553:2008 en  
Elastične podne obloge – Poli(vinil-kloridne) podne obloge za uporabu u izrazito mokrim prostorima – Specifikacija (EN 13553:2002)  
Resilient floor coverings – Polyvinyl chloride floor coverings for use in special wet areas – Specification (EN 13553:2002)  
- zamijenjena s: HRN EN 13553:2015

## HZN/TO 221, *Geosintetici*

HRN EN ISO 10318:2008 en  
Geosintetici – Nazivi i definicije (ISO 10318:2005; EN ISO 10318:2005)  
Geosynthetics – Terms and definitions (ISO 10318:2005; EN ISO 10318:2005)  
- zamijenjena s: HRN EN ISO 10318-1:2015, HRN EN ISO 10318-2:2015

HRN EN 13249:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji cesta i ostalih prometnih površina (izuzimaju se željeznice i asfaltni sojevi) (EN 13249:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion) (EN 13249:2014)  
- zamijenjena s: HRN EN 13249:2015

HRN EN 13250:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji željeznica (EN 13250:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of railways (EN 13250:2014)  
- zamijenjena s: HRN EN 13250:2015

HRN EN 13251:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izvođenju zemljanih radova, temelja i potpornih konstrukcija (EN 13251:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in earthworks, foundations and retaining structures (EN 13251:2014)  
- zamijenjena s: HRN EN 13251:2015

HRN EN 13252:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu u drenažnim sustavima (EN 13252:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in drainage systems (EN 13252:2014)  
- zamijenjena s: HRN EN 13252:2015

HRN EN 13253:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu u zaštiti od erozije (zaštita obale, obaloutvrde) (EN 13253:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in erosion control works (coastal protection, bank revetments) (EN 13253:2014)  
- zamijenjena s: HRN EN 13253:2015

HRN EN 13254:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji akumulacijskih jezera i brana (EN 13254:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of reservoirs and dams (EN 13254:2014)  
- zamijenjena s: HRN EN 13254:2015

HRN EN 13255:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji kanala (EN 13255:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of canals (EN 13255:2014)  
- zamijenjena s: HRN EN 13255:2015

HRN EN 13256:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu pri izgradnji tunela i podzemnih građevina (EN 13256:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in the construction of tunnels and underground structures (EN 13256:2014)  
- zamijenjena s: HRN EN 13256:2015

HRN EN 13257:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima krutog otpada (EN 13257:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in solid waste disposals (EN 13257:2014)  
- zamijenjena s: HRN EN 13257:2015

HRN EN 13265:2014 en  
Geotekstil i proizvodi srodnih s geotekstilom – Zahtijevana svojstva za uporabu u odlagalištima tekućeg otpada (EN 13265:2014)  
Geotextiles and geotextile-related products – Characteristics required for use in liquid waste containment projects (EN 13265:2014)  
- zamijenjena s: HRN EN 13265:2015

HRN EN 14574:2005 en  
Geosintetici – Određivanje otpornosti geosintetika na krutoj podlozi na probijanje piramidom (EN 14574:2004)  
Geosynthetics – Determination of the pyramid puncture resistance of supported geosynthetics (EN 14574:2004)  
- zamijenjena s: HRN EN 14574:2015

## HZN/TO 238, *Čvrsta biogoriva*

HRN EN 15105:2011 en  
Čvrsta biogoriva – Određivanje udjela otopljenih klorida, natrija i kalija (EN 15105:2011)  
Solid biofuels – Determination of the water soluble chloride, sodium and potassium content (EN 15105:2011)  
- zamijenjena s: HRN EN ISO 16995:2015

HRN EN 15289:2011 en  
Čvrsta biogoriva – Određivanje ukupnoga udjela sumpora i klorida (EN 15289:2011)  
Solid biofuels – Determination of total content of sulfur and chlorine (EN 15289:2011)  
- zamijenjena s: HRN EN ISO 16994:2015

HRN EN 15296:2011 en  
Čvrsta biogoriva – Pretvorba analitičkih rezultata iz jedne osnove u drugu (EN 15296:2011)  
Solid biofuels – Conversion of analytical results from one basis to another (EN 15296:2011)  
- zamijenjena s: HRN EN ISO 16993:2015

## HZN/TO 503, *Metalni materijali*

HRN EN 1396:2009 en  
Aluminij i aluminijeve legure – Prevlakom zaštićeni limovi i trake u kolutu za opće namjene – Specifikacije (EN 1396:2007)  
Aluminium and aluminium alloys – Coil coated sheet and strip for general applications – Specifications (EN 1396:2007)  
- zamijenjena s: HRN EN 1396:2015

HRN EN ISO 6508-1:2008 en

Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 1. dio: Ispitna metoda (skala A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-1:2005; EN ISO 6508-1:2005)  
Metallic materials – Rockwell hardness test – Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-1:2005; EN ISO 6508-1:2005)  
- zamijenjena s: HRN EN ISO 6508-1:2015

HRN EN ISO 6508-2:2008 en

Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 2. dio: Provjeravanje i umjeravanje ispitnih uređaja (skale A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-2:2005; EN ISO 6508-2:2005)  
Metallic materials – Rockwell hardness test – Part 2: Verification and calibration of testing machines (scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-2:2005; EN ISO 6508-2:2005)  
- zamijenjena s: HRN EN ISO 6508-2:2015

HRN EN ISO 6508-3:2008 en

Metalni materijali – Ispitivanje tvrdoće prema Rockwellu – 3. dio: Umjeravanje referentnih pločica (skale A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-3:2005; EN ISO 6508-3:2005)  
Metallic materials – Rockwell hardness test – Part 3: Calibration of reference blocks (scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-3:2005; EN ISO 6508-3:2005)  
- zamijenjena s: HRN EN ISO 6508-3:2015

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

HRN EN ISO 4528:2010 en

Staklaste i porculanske emajlirane površine – Odabir ispitnih metoda za staklaste i porculanske dijelove proizvoda (ISO 4528:2000; EN ISO 4528:2009)  
Vitreous and porcelain enamel finishes – Selection of test methods for vitreous and porcelain enamelled areas of articles (ISO 4528:2000; EN ISO 4528:2009)  
- zamijenjena s: HRN EN ISO 4528:2015

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

HRN EN 12186:2001 en

Plinski opskrbni sustavi – Plinske redukcijske stanice za transport i distribuciju – Funkcionalni zahtjevi (EN 12186:2000)  
Gas supply systems – Gas pressure regulating stations for transmission and distribution – Functional requirements (EN 12186:2000)  
- zamijenjena s: HRN EN 12186:2014

HRN EN 12186:2001/A1:2008 en

Plinski opskrbni sustavi – Plinske redukcijske stanice za transport i distribuciju – Funkcionalni zahtjevi (EN 12186:2000/A1:2005)  
Gas supply systems – Gas pressure regulating stations for transmission and distribution – Functional requirements (EN 12186:2000/A1:2005)  
- zamijenjena s: HRN EN 12186:2014

HRN EN 13787:2008 en

Elastomeri za regulatore tlaka plina i pripadajuće sigurnosne uređaje za ulazne tlakove do 100 bara (EN 13787:2001)  
Elastomers for gas pressure regulators and associated safety devices for inlet pressures up to 100 bar (EN 13787:2001)  
- bez zamjene

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

HRN EN ISO 6141:2008 en

Analiza plina – Zahtjevi za certificiranje plinova i plinskih smjesa za umjeravanje (ISO 6141:2000; EN ISO 6141:2006)  
Gas analysis – Requirements for certificates for calibration gases and gas mixtures (ISO 6141:2000; EN ISO 6141:2006)  
- zamijenjena s: HRN EN ISO 6141:2015

HRN EN ISO 10439:2008 en

Industrija nafte, kemije i plina – Centrifugalni kompresori (ISO 10439:2002; EN ISO 10439:2002)  
Petroleum, chemical and gas service industries – Centrifugal compressors (ISO 10439:2002; EN ISO 10439:2002)  
- zamijenjena s: HRN EN ISO 10439-1:2015, HRN EN ISO 10439-2:2015, HRN EN ISO 10439-3:2015, HRN EN ISO 10439-4:2015

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

HRN CEN/TS 1793-4:2007 en

Barijere za zaštitu od buke s cesta – Ispitne metode za određivanje akustičnih svojstava – 4. dio: Osnovne značajke – In situ vrijednosti difrakcije zvuka (CEN/TS 1793-4:2003)  
Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 4: Intrinsic characteristics – In situ values of sound diffraction (CEN/TS 1793-4:2003)  
- zamijenjena s: HRN EN 1793-4:2015

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

HRN EN 12480:2003 en

Plinomjeri – Plinomjeri s rotacijskim klipovima (EN 12480:2002)  
Gas meters – Rotary displacement gas meters (EN 12480:2002)  
- zamijenjena s: HRN EN 12480:2015

HRN EN 12480/A1:2007 en

Plinomjeri – Plinomjeri s rotacijskim klipovima (EN 12480:2002/A1:2006)  
Gas meters – Rotary displacement gas meters (EN 12480:2002/A1:2006)  
- zamijenjena s: HRN EN 12480:2015

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

HRN DIN 4103-1:2010 de

Nenosivi unutarnji pregradni zidovi – Zahtjevi i ispitivanje (DIN 4103-1:1984)  
Nichttragende innere Trennwände, Anforderungen, Nachweise (DIN 4103-1:1984)  
- zamijenjena s: HRN DIN 4103-1:2015

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

HRN EN 1501-1:2011 en

Vozila za skupljanje otpada – Opći i sigurnosni zahtjevi – 1. dio: Vozila za skupljanje otpada sa stražnjim punjenjem (EN 1501-1:2011)  
Refuse collection vehicles – General requirements and safety requirements – Part 1: Rear loaded refuse collection vehicles (EN 1501-1:2011)  
- zamijenjena s: HRN EN 1501-1:2015

HRN CEN/TS 14429:2005 en

Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju – Utjecaj pH-vrijednosti na izluživanje uz početni dodatak kiseline/luzine (CEN/TS 14429:2005)  
Characterization of waste – Leaching behaviour tests – Influence of pH on leaching with initial acid/base addition (CEN/TS 14429:2005)  
- zamijenjena s: HRN EN 14429:2015

HRS CEN/TS 14997:2008 en

Karakterizacija otpada – Ispitivanja ponašanja procjeđivanja – Utjecaj pH na procjeđivanje uz kontinuiranu kontrolu pH vrijednosti (CEN/TS 14997:2006)  
Characterization of waste – Leaching behaviour tests – Influence of pH on leaching with continuous pH-control (CEN/TS 14997:2006)  
- zamijenjena s: HRN EN 14997:2015

HRS CEN/TS 15863:2012 en

Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju za osnovnu karakterizaciju – Dinamička provjera monolitnog izluživanja s periodičnom obnovom procjedne vode pri stalnim uvjetima ispitivanja (CEN/TS 15863:2012)  
Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic Monolithic Leaching Test with periodic leachant renewal, under fixed test conditions (CEN/TS 15863:2012)  
- zamijenjena s: HRN EN 15863:2015

### **HZN/TO 525, Hidroizolacijski materijali i proizvodi za pokrivanje krovova**

HRN EN 12730:2003 en

Savitljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na statičko opterećenje (EN 12730:2001)  
Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of resistance to static loading (EN 12730:2001)  
- zamijenjena s: HRN EN 12730:2015

HRN EN 16153:2013 en  
Prozirne ravne višeslojne polikarbonatne (PC) trake za unutrašnju i vanjsku upotrebu na krovovima, zidovima i stropovima – Zahtjevi i metode ispitivanja (EN 16153:2013)  
Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test methods (EN 16153:2013)  
- zamijenjena s: HRN EN 16153:2015

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

HRN EN 14752:2007 en  
Željeznički sustav – Sustavi bočnog ulaženja (EN 14752:2005)  
Railway applications – Bodyside entrance systems (EN 14752:2005)  
- zamijenjena s: HRN EN 14752:2015

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

HRN EN 13001-1:2009 en  
Granici – Opće projektiranje – 1. dio: Opća načela i zahtjevi (EN 13001-1:2004+A1:2009)  
Cranes – General design – Part 1: General principles and requirements (EN 13001-1:2004+A1:2009)  
- zamijenjena s: HRN EN 13001-1:2015

HRN EN 13001-1:2009/Ispr.1:2010 en  
Granici – Opće projektiranje – 1. dio: Opća načela i zahtjevi (EN 13001-1:2004+A1:2009/AC:2009)  
Cranes – General design – Part 1: General principles and requirements (EN 13001-1:2004+A1:2009/AC:2009)  
- zamijenjena s: HRN EN 13001-1:2015

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

HRN EN 853:2008 en  
Gumena crijeva i crijevni uređaji – Žicom ojačan hidraulični tip – Specifikacija (EN 853:1996+AC:2007)  
Rubber hoses and hose assemblies – Wire braid reinforced hydraulic type – Specification (EN 853:1996+AC:2007)  
- zamijenjena s: HRN EN 853:2015

HRN EN 854:2008 en  
Gumena crijeva i crijevni uređaji – Hidraulični tip ojačan tekstilom – Specifikacija (EN 854:1996)  
Rubber hoses and hose assemblies – Textile reinforced hydraulic type – Specification (EN 854:1996)  
- zamijenjena s: HRN EN 854:2015

HRN EN 856:2008 en  
Gumena crijeva i crijevni uređaji – Gumeni hidraulični tip obložen i ojačan spiralnom žicom – Specifikacija (EN 856:1996)  
Rubber hoses and hose assemblies – Rubber-covered spiral wire reinforced hydraulic type – Specification (EN 856:1996)  
- zamijenjena s: HRN EN 856:2015

HRN EN 857:2008 en  
Gumena crijeva i crijevni uređaji – Kompaktni tip ojačan žičanom mrežom za hidrauličnu primjenu – Specifikacija (EN 857:1996)  
Rubber hoses and hose assemblies – Wire braid reinforced compact type for hydraulic applications – Specification (EN 857:1996)  
- zamijenjena s: HRN EN 857:2015

HRN EN ISO 1873-1:2008 en  
Plastika – Polipropilenski (PP) prešani i ekstrudirani materijali – 1. dio: Sustav označavanja i osnova za specifikacije (ISO 1873-1:1995; EN ISO 1873-1:1995)  
Plastics – Polypropylene (PP) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 1873-1:1995; EN ISO 1873-1:1995)  
- zamijenjena s: HRN EN ISO 19069-1:2015

HRN EN ISO 1874-1:2011 en  
Plastika – Poliamidni (PA) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnova za specifikaciju (ISO 1874-1:2010; EN ISO 1874-1:2010)  
Plastics – Polyamide (PA) moulding and extrusion materials – Part 1: Designation system and basis for specification (ISO 1874-1:2010; EN ISO 1874-1:2010)  
- zamijenjena s: HRN EN ISO 16396-1:2015

HRN EN 13765:2010 en  
Plastomerna višeslojna neumrežena crijeva i crijevni pribori za prijenos ugljikovodika, otapala i kemikalija – Specifikacija (EN 13765:2010)  
Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals – Specification (EN 13765:2010)  
- zamijenjena s: HRN EN 13765:2015

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

HRN EN 13384-1:2008 en  
Dimnjaci – Metode toplinskog proračuna i proračuna dinamike fluida – 1. dio: Dimnjaci s jednim uređajem za loženje (EN 13384-1:2002+A2:2008)  
Chimneys – Thermal and fluid dynamic calculation methods – Part 1: Chimneys serving one appliance (EN 13384-1:2002+A2:2008)  
- zamijenjena s: HRN EN 13384-1:2015

HRN EN 13384-2:2010 en  
Dimnjaci – Metode toplinskog proračuna i proračuna dinamike fluida – 2. dio: Dimnjaci s više uređaja za loženje (EN 13384-2:2003+A1:2009)  
Chimneys – Thermal and fluid dynamic calculation methods – Part 2: Chimneys serving more than one heating appliance (EN 13384-2:2003+A1:2009)  
- zamijenjena s: HRN EN 13384-2:2015

HRN EN 14471:2013 en  
Dimnjaci – Sustavi dimnjaka s plastičnim dimnovodnim cijevima – Zahtjevi i metode ispitivanja (EN 14471:2013)  
Chimneys – System chimneys with plastic flue liners – Requirements and test methods (EN 14471:2013)  
- zamijenjena s: HRN EN 14471:2015

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

HRN EN 12972:2008 en  
Spremnici za prijevoz opasnih tvari – Ispitivanje, inspekcija i označavanje metalnih spremnika (EN 12972:2007)  
Tanks for transport of dangerous goods – Testing, inspection and marking of metallic tanks (EN 12972:2007)  
- zamijenjena s: HRN EN 12972:2015

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

HRN EN 13383-2:2013 en  
Kamenozaštite – 2. dio: Metode ispitivanja (EN 13383-2:2013)  
Armourstone – Part 2: Test methods (EN 13383-2:2013)  
- bez zamjene

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

HRN EN 13126-5:2012 en  
Građevni okovi – Okovi za prozore i prozorska vrata – Zahtjevi i metode ispitivanja – 5. dio: Naprave za ograničavanje otvaranja prozora i prozorskih vrata (EN 13126-5:2011)  
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 5: Devices that restrict the opening of windows and door height windows (EN 13126-5:2011)  
- zamijenjena s: HRN EN 13126-5:2014

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

HRN EN 13697:2003 en  
Kemijski dezinficijensi i antiseptici – Kvantitativni test na neporoznoj površini za vrednovanje baktericidne i/ili fungicidne djelotvornosti kemijskih dezinficijensa i antiseptika koji se upotrebljavaju u područjima prehrane, industrije, domaćinstava i ustanova – Metoda testiranja i zahtjevi bez mehaničkog djelovanja (faza 2, korak 2) (EN 13697:2001)  
Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic, and institutional areas – Test method and requirements without mechanical action (phase 2, step 2) (EN 13697:2001)  
- zamijenjena s: HRN EN 13697:2015

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

HRN EN ISO 10664:2008 en  
Značajke šesterokrakog upusta za ključ na vijcima (ISO 10664:2005; EN ISO 10664:2005)  
Hexalobular internal driving feature for bolts and screws (ISO 10664:2005; EN ISO 10664:2005)  
- zamijenjena s: HRN EN ISO 10664:2015

## HZN/TO 548, *Konstruktivski eurokodovi*

- HRN EN 1998-1:2011/Ispr.1:2014 hr  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 1. dio: Opća pravila, potresna djelovanja i pravila za zgrade  
Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings  
- zamijenjena s: HRN EN 1998-1:2011/Ispr.2:2015
- HRN EN 1999-1-1:2008 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila (EN 1999-1-1:2007)  
Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules (EN 1999-1-1:2007)  
- zamijenjena s: HRN EN 1999-1-1:2015
- HRN EN 1999-1-1:2008/A1:2011 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila (EN 1999-1-1:2007/A1:2009)  
Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules (EN 1999-1-1:2007/A1:2009)  
- zamijenjena s: HRN EN 1999-1-1:2015
- HRN EN 1999-1-1:2008/A2:2014 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila (EN 1999-1-1:2007/A2:2013)  
Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules (EN 1999-1-1:2007/A2:2013)  
- zamijenjena s: HRN EN 1999-1-1:2015
- HRN EN 1999-1-1:2008/NA:2013 hr-en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila – Nacionalni dodatak  
Eurocode 9: Design of aluminium structures – Part 1-1: General structural rules – National Annex  
- zamijenjena s: HRN EN 1999-1-1:2015/NA:2015
- HRN EN 1999-1-2:2008 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara (EN 1999-1-2:2007)  
Eurocode 9: Design of aluminium structures – Part 1-2: Structural fire design (EN 1999-1-2:2007)  
- zamijenjena s: HRN EN 1999-1-2:2015
- HRN EN 1999-1-2:2008/Ispr.1:2011 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara (EN 1999-1-2:2007/AC:2009)  
Eurocode 9: Design of aluminium structures – Part 1-2: Structural fire design (EN 1999-1-2:2007/AC:2009)  
- zamijenjena s: HRN EN 1999-1-2:2015
- HRN EN 1999-1-2:2008/NA:2013 hr-en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara – Nacionalni dodatak  
Eurocode 9: Design of aluminium structures – Part 1-2: Structural fire design – National Annex  
- zamijenjena s: HRN EN 1999-1-2:2015/NA:2015
- HRN EN 1999-1-3:2008 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor (EN 1999-1-3:2007)  
Eurocode 9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue (EN 1999-1-3:2007)  
- zamijenjena s: HRN EN 1999-1-3:2015
- HRN EN 1999-1-3:2008/A1:2012 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor (EN 1999-1-3:2007/A1:2011)  
Eurocode 9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue (EN 1999-1-3:2007/A1:2011)  
- zamijenjena s: HRN EN 1999-1-3:2015
- HRN EN 1999-1-3:2008/NA:2013 hr-en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor – Nacionalni dodatak  
Eurocode 9: Design of aluminium structures – Part 1-3: Structures susceptible to fatigue – National Annex  
- zamijenjena s: HRN EN 1999-1-3:2015/NA:2015
- HRN EN 1999-1-4:2008 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi (EN 1999-1-4:2007)  
Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting (EN 1999-1-4:2007)  
- zamijenjena s: HRN EN 1999-1-4:2015

- HRN EN 1999-1-4:2008/A1:2012 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi (EN 1999-1-4:2007/A1:2011)  
Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting (EN 1999-1-4:2007/A1:2011)  
- zamijenjena s: HRN EN 1999-1-4:2015
- HRN EN 1999-1-4:2008/Ispr.1:2011 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi (EN 1999-1-4:2007/AC:2009)  
Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting (EN 1999-1-4:2007/AC:2009)  
- zamijenjena s: HRN EN 1999-1-4:2015
- HRN EN 1999-1-4:2008/NA:2013 hr-en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi – Nacionalni dodatak  
Eurocode 9: Design of aluminium structures – Part 1-4: Cold-formed structural sheeting – National Annex  
- zamijenjena s: HRN EN 1999-1-4:2015/NA:2015
- HRN EN 1999-1-5:2008 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije (EN 1999-1-5:2007)  
Eurocode 9: Design of aluminium structures – Part 1-5: Shell structures (EN 1999-1-5:2007)  
- zamijenjena s: HRN EN 1999-1-5:2015
- HRN EN 1999-1-5:2008/Ispr.1:2011 en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije (EN 1999-1-5:2007/AC:2009)  
Eurocode 9: Design of aluminium structures – Part 1-5: Shell structures (EN 1999-1-5:2007/AC:2009)  
- zamijenjena s: HRN EN 1999-1-5:2015
- HRN EN 1999-1-5:2008/NA:2013 hr-en  
Eurokod 9: Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije – Nacionalni dodatak  
Eurocode 9: Design of aluminium structures – Part 1-5: Shell structures – National Annex  
- zamijenjena s: HRN EN 1999-1-5:2015/NA:2015

## HZN/TO 550, *Opskrba vodom*

- HRN EN 1018:2013 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kalcijev karbonat (EN 1018:2013)  
Chemicals used for treatment of water intended for human consumption – Calcium carbonate (EN 1018:2013)  
- zamijenjena s: HRN EN 1018:2015
- HRN EN 12876:2010 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kisik (EN 12876:2009)  
Chemicals used for treatment of water intended for human consumption – Oxygen (EN 12876:2009)  
- zamijenjena s: HRN EN 12876:2015
- HRN EN 12926:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev peroksidisulfat (EN 12926:2008)  
Chemicals used for treatment of water intended for human consumption – Sodium peroxodisulfate (EN 12926:2008)  
- zamijenjena s: HRN EN 12926:2015
- HRN EN 12931:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Bezvodni natrijev diklorizocijanurat (EN 12931:2008)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Sodium dichloroisocyanurate, anhydrous (EN 12931:2008)  
- zamijenjena s: HRN EN 12931:2015
- HRN EN 12932:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Natrijev diklorizocijanurat dihidrat (EN 12932:2008)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Sodium dichloroisocyanurate, dihydrate (EN 12932:2008)  
- zamijenjena s: HRN EN 12932:2015

HRN EN 12933:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kemikalije koje se upotrebljavaju u izvanrednim situacijama – Triklorizocijanuratna kiselina (EN 12933:2008)  
Chemicals used for treatment of water intended for human consumption – Chemicals for emergency use – Trichloroisocyanuric acid (EN 12933:2008)  
- zamijenjena s: HRN EN 12933:2015

HRN EN 13176:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Etanol (EN 13176:2008)  
Chemicals used for treatment of water intended for human consumption – Ethanol (EN 13176:2008)  
- zamijenjena s: HRN EN 13176:2015

HRN EN 13194:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Octena kiselina (EN 13194:2008)  
Chemicals used for treatment of water intended for human consumption – Acetic acid (EN 13194:2008)  
- zamijenjena s: HRN EN 13194:2015

HRN EN 15030:2013 en  
Kemikalije koje se upotrebljavaju za obradu vode namijenjene ljudskoj uporabi – Soli srebra za povremenu uporabu (EN 15030:2012)  
Chemicals used for treatment of water intended for human consumption – Silver salts for intermittent use (EN 15030:2012)  
- zamijenjena s: HRN EN 15030:2015

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

HRN EN 12050-1:2008 en  
Postrojenje za podizanje otpadne vode za zgrade i terene – Načela konstrukcije i ispitivanja – 1. dio: Postrojenje za podizanje otpadne vode koja sadrži fekalne tvari (EN 12050-1:2001)  
Wastewater lifting plants for buildings and sites – Principles of construction and testing – Part 1: Lifting plants for wastewater containing faecal matter (EN 12050-1:2001)  
- zamijenjena s: HRN EN 12050-1:2015

HRN EN 12050-2:2007 en  
Postrojenja za podizanje otpadnih voda za zgrade i terene – Načela konstrukcije i ispitivanja – 2. dio: Postrojenje za podizanje otpadnih voda bez fekalija (EN 12050-2:2000)  
Wastewater lifting plants for buildings and sites – Principles of construction and testing – Part 2: Lifting plants for faecal-free wastewater (EN 12050-2:2000)  
- zamijenjena s: HRN EN 12050-2:2015

HRN EN 12050-3:2008 en  
Postrojenje za podizanje otpadnih voda za zgrade i terene – Načela konstrukcije i ispitivanja – 3. dio: Postrojenje za podizanje otpadnih voda koje sadrže fekalije za ograničenu primjenu (EN 12050-3:2000)  
Wastewater lifting plants for buildings and sites – Principles of construction and testing – Part 3: Lifting plants for wastewater containing faecal matter for limited applications (EN 12050-3:2000)  
- zamijenjena s: HRN EN 12050-3:2015

HRN EN 12050-4:2008 en  
Postrojenje za podizanje otpadne vode za zgrade i terene – Načela konstrukcije i ispitivanja – 4. dio: Nepovratni zaporni uređaji za otpadnu vodu bez fekalija i otpadnu vodu koja sadrži fekalne tvari (EN 12050-4:2000)  
Wastewater lifting plants for buildings and sites – Principles of construction and testing – Part 4: Non-return valves for faecal-free wastewater and wastewater containing faecal matter (EN 12050-4:2000)  
- zamijenjena s: HRN EN 12050-4:2015

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

HRN EN ISO 10993-3:2010 en  
Biološka procjena medicinskih proizvoda – 3. dio: Ispitivanja za genotoksičnost, karcinogenetiku i reproduktivnu toksičnost (ISO 10993-3:2003; EN ISO 10993-3:2009)  
Biological evaluation of medical devices – Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity (ISO 10993-3:2003; EN ISO 10993-3:2009)  
- zamijenjena s: HRN EN ISO 10993-3:2015

HRI CR 14060:2011 en  
Sljedivost medicinskih sredstava (CR 14060:2000)  
Medical device traceability (CR 14060:2000)  
- zamijenjena s: HRI CEN/TR 14060:2015

### **HZN/TO 557, Zaštitna odjeća**

HRN EN 374-3:2003 en  
Rukavice za zaštitu od kemikalija i mikroorganizama – 3. dio: Određivanje otpornosti na upijanje kemikalija (EN 374-3:2003)  
Protective gloves against chemicals and micro-organisms – Part 3: Determination of resistance to permeation by chemicals (EN 374-3:2003)  
- zamijenjena s: HRN EN 16523-1:2015

HRN EN 374-3:2003/AC:2007 en  
Rukavice za zaštitu od kemikalija i mikroorganizama – 3. dio: Određivanje otpornosti na upijanje kemikalija (EN 374-3:2003/AC:2006)  
Protective gloves against chemicals and micro-organisms – Part 3: Determination of resistance to permeation by chemicals (EN 374-3:2003/AC:2006)  
- zamijenjena s: HRN EN 16523-1:2015

HRN EN 469:2014 en  
Zaštitna odjeća za vatrogasce – Zahtjevi za svojstva zaštitne odjeće za gašenje požara (EN 469:2014)  
Protective clothing for firefighters – Performance requirements for protective clothing for firefighting (EN 469:2014)  
- bez zamjene

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

HRN EN 12516-1:2005 en  
Industrijski ventili – Projektna čvrstoća kućišta – 1. dio: Tablična metoda čeličnih kućišta ventila (EN 12516-1:2005)  
Industrial valves – Shell design strength – Part 1: Tabulation method for steel valve shells (EN 12516-1:2005)  
- zamijenjena s: HRN EN 12516-1:2014

HRN EN 12516-1:2005/Ispr.1:2008 en  
Industrijski ventili – Projektna čvrstoća kućišta – 1. dio: Tablična metoda čeličnih kućišta ventila (EN 12516-1:2005/AC:2007)  
Industrial valves – Shell design strength – Part 1: Tabulation method for steel valve shells (EN 12516-1:2005/AC:2007)  
- zamijenjena s: HRN EN 12516-1:2014

HRN EN 12516-2:2005 en  
Industrijski ventili – Projektna čvrstoća kućišta – 2. dio: Metoda proračuna čeličnih kućišta ventila (EN 12516-2:2004)  
Industrial valves – Shell design strength – Part 2: Calculation method for steel valve shells (EN 12516-2:2004)  
- zamijenjena s: HRN EN 12516-2:2014

HRN EN 12516-4:2008 en  
Industrijski zaporni uređaji – Projektiranje čvrstoće školjke – 4. dio: Metoda proračuna školjki zapornih uređaja izrađenih od metalnih materijala osim čelika (EN 12516-4:2008)  
Industrial valves – Shell design strength – Part 4: Calculation method for valve shells manufactured in metallic materials other than steel (EN 12516-4:2008)  
- zamijenjena s: HRN EN 12516-4:2014

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

HRN EN 14362-2:2008 en  
Tekstilije – Metode za određivanje određenih aromatskih amina izdvojenih iz azo bojila – 2. dio: Otkrivanje određenih azo bojila koja su dostupna nakon ekstrakcije vlakana (EN 14362-2:2003+AC:2005)  
Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 2: Detection of the use of certain azo colorants accessible by extracting the fibres (EN 14362-2:2003+AC:2005)  
- zamijenjena s: HRN EN 14362-1:2012

HRN EN 14533:2008 en  
Tekstilije i tekstilni proizvodi – Ponašanje posteljnog rublja pri gorenju – Plan razredbe (EN 14533:2003)  
Textiles and textile products – Burning behaviour of bedding items – Classification scheme (EN 14533:2003)  
- zamijenjena s: HRN EN 14533:2015

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

- HRN EN 764-1:2008 en  
Tlačna oprema – 1. dio: Nazivlje – Tlak, temperatura, volumen, nazivna veličina (EN 764-1:2004)  
Pressure equipment – Part 1: Terminology – Pressure, temperature, volume, nominal size (EN 764-1:2004)  
- zamijenjena s: HRN EN 764-1:2015
- HRN EN 13445-4:2009 en  
Neložene tlačne posude – 4. dio: Proizvodnja (EN 13445-4:2009)  
Unfired pressure vessels – Part 4: Fabrication (EN 13445-4:2009)  
- zamijenjena s: HRN EN 13445-4:2015
- HRN EN 13445-4:2009/A1:2012 en  
Neložene tlačne posude – 4. dio: Proizvodnja (EN 13445-4:2009/A1:2011)  
Unfired pressure vessels – Part 4: Fabrication (EN 13445-4:2009/A1:2011)  
- zamijenjena s: HRN EN 13445-4:2015
- HRN EN 13445-4:2009/A2:2014 en  
Neložene tlačne posude – 4. dio: Proizvodnja (EN 13445-4:2009/A2:2014)  
Unfired pressure vessels – Part 4: Fabrication (EN 13445-4:2009/A2:2014)  
- zamijenjena s: HRN EN 13445-4:2015
- HRN EN 13953:2008 en  
Oprema i pribor za UNP – Sigurnosni ventili prenosivih, ponovno punjivih boca za ukapljeni naftni plin (UNP) (EN 13953:2003+A1:2007)  
LPG equipment and accessories – Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG) (EN 13953:2003+A1:2007)  
- zamijenjena s: HRN EN 13953:2015
- HRN EN 14912:2008 en  
Oprema i pribor za UNP – Pregled i održavanje ventila boca za UNP tijekom periodičnog pregleda boca (EN 14912:2005)  
LPG equipment and accessories – Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders (EN 14912:2005)  
- zamijenjena s: HRN EN 14912:2015

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

- HRN EN 1870-17:2013 en  
Sigurnost strojeva za obradu drveta – Kružne pile – 17. dio: Ručne horizontalne kružne pile s jednim listom (ručni radijalni nosač pile) (EN 1870-17:2012)  
Safety of woodworking machines – Circular sawing machines – Part 17: Manual horizontal cutting cross-cut sawing machines with one saw unit (radial arm saws) (EN 1870-17:2012)  
- zamijenjena s: HRN EN 1870-17:2015

## HZN/TO 563, *Sigurnost strojeva*

- HRN EN 14462:2009 en  
Oprema za površinsku obradu – Pravilo za ispitivanje buke opreme za površinsku obradu uključujući i ručnu vibracijsku opremu – Razred točnosti 2 i 3 (EN 14462:2005+A1:2009)  
Surface treatment equipment – Noise test code for surface treatment equipment including its ancillary handling equipment – Accuracy grades 2 and 3 (EN 14462:2005+A1:2009)  
- zamijenjena s: HRN EN 14462:2015

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

- HRN EN 14468-1:2008 en  
Stolni tenis – 1. dio: Stolovi za stolni tenis, funkcionalni i sigurnosni zahtjevi, metode ispitivanja (EN 14468-1:2004)  
Table tennis – Part 1: Table tennis tables, functional and safety requirements, test methods (EN 14468-1:2004)  
- zamijenjena s: HRN EN 14468-1:2015
- HRN EN 14468-2:2008 en  
Stolni tenis – 2. dio: Nosači za mrežu – Zahtjevi i metode ispitivanja (EN 14468-2:2005)  
Table tennis – Part 2: Posts for net assemblies – Requirements and test methods (EN 14468-2:2005)  
- zamijenjena s: HRN EN 14468-2:2015
- HRN EN 14619:2005 en  
Sportska oprema za kotaljanje – Romobili – Sigurnosni zahtjevi i metode ispitivanja (EN 14619:2004)  
Roller sports equipment – Kick scooters – Safety requirements and test methods (EN 14619:2004)  
- zamijenjena s: HRN EN 14619:2015

## HZN/TO E8, *Sustavski vidovi opskrbe električnom energijom*

- HRN HD 472 S1:1998 en  
Nominalni naponi za niskonaponske javne sustave napajanja električnom energijom (IEC 60038:1983, MOD; HD 472 S1:1989+A1:1995)  
Nominal voltages for low voltage public electricity supply systems (IEC 60038:1983, MOD; HD 472 S1:1989+A1:1995)  
- zamijenjena s: HRN EN 60038:2011
- HRN HD 472 S1:1998/Ispr.1:2008 en  
Nominalni naponi za niskonaponske javne sustave napajanja električnom energijom (HD 472 S1:1989/AC:2002)  
Nominal voltages for low voltage public electricity supply systems (HD 472 S1:1989/AC:2002)  
- zamijenjena s: HRN EN 60038:2011
- HRN HD 472 S1:1998/Ispr.1:2014 en  
Nominalni naponi za niskonaponske javne sustave napajanja električnom energijom (HD 472 S1:1989/AC:2013)  
Nominal voltages for low-voltage public electricity supply systems (HD 472 S1:1989/AC:2013)  
- zamijenjena s: HRN EN 60038:2011

## HZN/TO E20, *Električni kabeli*

- HRN HD 21.5 S3:2001 en  
Kabeli izolirani polivinil kloridom nazivnog napona do i uključivo 450/750 V – 5. dio: Savitljivi kabeli (vodovi) (IEC 60227-5:1979, izmjenjena; HD 21.5 S3:1994+A1:1999)  
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords) (IEC 60227-5:1979, modified; HD 21.5 S3:1994+A1:1999)  
- zamijenjena s: HRN EN 50525-2-11:2012, HRN EN 50525-2-71:2012
- HRN HD 21.5 S3:2001/A2:2007 en  
Kabeli izolirani polivinil-kloridom nazivnog napona do i uključivo 450/750 V – 5. dio: Savitljivi kabeli (vodovi) (IEC 60227-5:1979, mod.; HD 21.5 S3:1994/A2:2001)  
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords) (IEC 60227-5:1979, mod.; HD 21.5 S3:1994/A2:2001)  
- zamijenjena s: HRN EN 50525-2-11:2012, HRN EN 50525-2-71:2012
- HRN HD 620 S1:2001 en  
Distribucijski kabeli s brizganom izolacijom za nazivne napone od 3,6/6 (7,2) kV do 20,8/36 (42) kV (HD 620 S1:1996)  
Distribution cables with extruded insulation for rated voltages from 3,6/6 (7,2) kV to 20,8/36 (42) kV (HD 620 S1:1996)  
- zamijenjena s: HRN HD 620 S2:2010
- HRN HD 620 S1:2001/A1:2007 en  
Distribucijski kabeli s ekstrudiranom izolacijom za nazivne napone od 3,6/6 (7,2) kV do 20,8/36 (42) kV (HD 620 S1:1996/A1:2001)  
Distribution cables with extruded insulation for rated voltages from 3,6/6 (7,2) kV to 20,8/36 (42) kV (HD 620 S1:1996/A1:2001)  
- zamijenjena s: HRN HD 620 S2:2010
- HRN HD 620 S1:2001/A2:2007 en  
Distribucijski kabeli s ekstrudiranom izolacijom za nazivne napone od 3,6/6 (7,2) kV do 20,8/36 (42) kV (HD 620 S1:1996/A2:2003)  
Distribution cables with extruded insulation for rated voltages from 3,6/6 (7,2) kV to 20,8/36 (42) kV (HD 620 S1:1996/A2:2003)  
- zamijenjena s: HRN HD 620 S2:2010
- HRN HD 620 S1:2001/A3:2008 en  
Distribucijski kabeli s ekstrudiranom izolacijom za nazivne napone od 3,6/6 (7,2) kV do 20,8/36 (42) kV (HD 620 S1:1996/A3:2007)  
Distribution cables with extruded insulation for rated voltages from 3,6/6 (7,2) kV to 20,8/36 (42) kV (HD 620 S1:1996/A3:2007)  
- zamijenjena s: HRN HD 620 S2:2010
- HRN HD 631.1 S1:2001 en  
Karakterizacija materijala – 1. dio: Smjese za korištenje u kabelskom priboru – Mješavine smola prije obrade i u toku obrade (HD 631.1 S1:1998)  
Material characterisation – Part 1: Compounds for use in cable accessories – Resinous compounds before cure and in the cured state (HD 631.1 S1:1998)  
- zamijenjena s: HRN HD 631.1 S2:2008

HRN HD 632 S1:2001 en  
Energetski kabeli s brizganom izolacijom i njihov pribor za nazivne napone iznad 36 kV (Um= 42 kV) do 150 kV (Um= 170 kV) (HD 632 S1:1998)  
Power cables with extruded insulation and their accessories for rated voltages above 36 kV (Um=42 kV) up to 150 kV (Um=170 kV) (HD 632 S1:1998)  
- zamijenjena s: HRN HD 632 S2:2009

HRN HD 632 S1:2001/A1:2007 en  
Energetski kabeli s ekstrudiranom izolacijom i njihov pribor za nazivne napone iznad 36 kV (Um = 42 kV) do i uključivo 150 kV (Um = 170 kV) (HD 632 S1:1998/A1:2002)  
Power cables with extruded insulation and their accessories for rated voltages above 36 kV (Um = 42 kV) up to 150 kV (Um = 170 kV) (HD 632 S1:1998/A1:2002)  
- zamijenjena s: HRN HD 632 S2:2009

HRN EN 50143:2001 en  
Kabeli za instalacije svijetlećih natpisa izlaznog napona iznad 1 kV do 10 kV (EN 50143:1997)  
Cables for signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV (EN 50143:1997)  
- zamijenjena s: HRN EN 50143:2009

HRN EN 50143:2001/A1:2007 en  
Kabeli za instalacije svijetlećih natpisa i svjetlećih cijevi s izbojem u plinu, nazivnog izlaznog napona u neopterećenom stanju 1 kV do 10 kV (EN 50143:1997/A1:2003)  
Cables for signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV (EN 50143:1997/A1:2003)  
- zamijenjena s: HRN EN 50143:2009

HRN EN 50264-1:2007 en  
Željezničke primjene – Kabeli za željeznička vozila s posebnom postojanošću na vatru – Standardna debljina izolacije – 1. dio: Opći zahtjevi (EN 50264-1:2002)  
Railway applications – Railway rolling stock cables having special fire performance – Standard wall – Part 1: General requirements (EN 50264-1:2002)  
- zamijenjena s: HRN EN 50264-1:2008

HRN EN 50363-0:2007 en  
Materijali za izolacije, plašteve i ispune energetskih kabela niskog napona – 0. dio: Opći uvod (EN 50363-0:2005)  
Insulating, sheathing and covering materials for low voltage energy cables – Part 0: General introduction (EN 50363-0:2005)  
- zamijenjena s: HRN EN 50363-0:2011

HRN IEC 61443:2001 en  
Granične temperature kod kratkog spoja na električnim kabelima nazivnog napona iznad 30 kV (Um=36 kV) (IEC 61443:1999)  
Short-circuit temperature limits of electric cables with rated voltages above 30 kV (Um=36 kV) (IEC 61443:1999)  
- zamijenjena s: HRN IEC 61443:2009

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

HRI CLC/TR 50417:2008 en  
Sigurnost kućanskih i sličnih električnih aparata – Prikazivanja europskih norma s područjem primjene od CENELEC/TC 61 (CLC/TR 50417:2003)  
Safety of household and similar electrical appliances – Interpretations related to European Standards within the scope of CENELEC/TC 61 (CLC/TR 50417:2003)  
- zamijenjena s: HRI CLC/TR 50417:2015

HRN EN 60335-2-30:1998 en  
Sigurnost kućanskih i sličnih električnih aparata – 2. dio: Posebni zahtjevi za grijalice prostorija (IEC 60335-2-30:1996, preinačeno; EN 60335-2-30:1997)  
Safety of household and similar electrical appliances – Part 2: Particular requirements for room heaters (IEC 60335-2-30:1996, modified; EN 60335-2-30:1997)  
- zamijenjena s: HRN EN 60335-2-30:2005

HRN EN 60335-2-30:1998/A1:2005 en  
Sigurnost kućanskih i sličnih električnih aparata – Dio 2-30: Posebni zahtjevi za grijalice prostorija (IEC 60335-2-30:1996/am1:1999; EN 60335-2-30:1997/A1:2000)  
Safety of household and similar electrical appliances – Part 2-30: Particular requirements for room heaters (IEC 60335-2-30:1996/am1:1999; EN 60335-2-30:1997/A1:2000)  
- zamijenjena s: HRN EN 60335-2-30:2005

HRN EN 60335-2-35:2005 en  
Sigurnost kućanskih i sličnih električnih aparata – Dio 2-35: Posebni zahtjevi protočnih vodogrijalica (IEC 60335-2-35:1997+am1:1999; EN 60335-2-35:1998+A1:2000)  
Safety of household and similar electrical appliances – Part 2-35: Particular requirements for instantaneous water heaters (IEC 60335-2-35:1997+am1:1999; EN 60335-2-35:1998+A1:2000)  
- zamijenjena s: HRN EN 60335-2-35:2006

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

HRN EN 61326:1999 en  
Električna oprema za mjerenje, upravljanje i laboratorijsku uporabu – Zahtjevi za EMK (IEC 61326:1997+am1:1998; EN 61326:1997+A1:1998+Ispravak:1998)  
Electrical equipment for measurement, control and laboratory use – EMC requirements (IEC 61326:1997+am1:1998; EN 61326:1997+A1:1998+AC:1998)  
- zamijenjena s: HRN EN 61326-1:2008, HRN EN 61326-2-1:2008, HRN EN 61326-2-2:2008, HRN EN 61326-2-3:2008, HRN EN 61326-2-4:2008, HRN EN 61326-2-5:2008, HRN EN 61326-2-6:2008, HRN EN 61326-3-1:2008, HRN EN 61326-3-2:2008

HRN EN 61326:1999/A2:2008 en  
Električna oprema za mjerenje, vođenje i laboratorijsku uporabu – Zahtjevi za elektromagnetsku kompatibilnost (EMC) (IEC 61326:1997/am2:2000; EN 61326:1997/A2:2001)  
Electrical equipment for measurement, control and laboratory use – EMC requirements (IEC 61326:1997/am2:2000; EN 61326:1997/A2:2001)  
- zamijenjena s: HRN EN 61326-1:2008, HRN EN 61326-2-1:2008, HRN EN 61326-2-2:2008, HRN EN 61326-2-3:2008, HRN EN 61326-2-4:2008, HRN EN 61326-2-5:2008, HRN EN 61326-2-6:2008, HRN EN 61326-3-1:2008, HRN EN 61326-3-2:2008

HRN EN 61326:1999/A3:2008 en  
Električna oprema za mjerenje, vođenje i laboratorijsku uporabu – Zahtjevi za elektromagnetsku kompatibilnost (EMC) (IEC 61326:2002 (Annexes E&F only)+IEC 61326:2002/Corr.1:2002; EN 61326:1997/A3:2003)  
Electrical equipment for measurement, control and laboratory use – EMC requirements (IEC 61326:2002 (Annexes E&F only)+IEC 61326:2002/Corr.1:2002; EN 61326:1997/A3:2003)  
- zamijenjena s: HRN EN 61326-1:2008, HRN EN 61326-2-1:2008, HRN EN 61326-2-2:2008, HRN EN 61326-2-3:2008, HRN EN 61326-2-4:2008, HRN EN 61326-2-5:2008, HRN EN 61326-2-6:2008, HRN EN 61326-3-1:2008, HRN EN 61326-3-2:2008

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

HRN EN 61243-3:2008 en  
Rad pod naponom – Indikatori napona – 3. dio: Niskonaponski dvopolnik (IEC 61243-3:1998; EN 61243-3:1998)  
Live working – Voltage detectors – Part 3: Two-pole low-voltage type (IEC 61243-3:1998; EN 61243-3:1998)  
- zamijenjena s: HRN EN 61243-3:2011

HRN EN 61243-3:2008/Ispr.1:2012 en  
Rad pod naponom – Indikatori napona – 3. dio: Niskonaponski dvopolnik (EN 61243-3:1998/AC:2002)  
Live working – Voltage detectors – Part 3: Two-pole low-voltage type (EN 61243-3:1998/AC:2002)  
- zamijenjena s: HRN EN 61243-3:2011

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

HRN EN 50130-4:1997 en  
Alarmni sustavi – 4. dio: Elektromagnetska kompatibilnost – Norma porodice proizvoda – Zahtjevi otpornosti alarmnih sustava za požar i provalu i zahtjevi otpornosti za socijalne alarmne sustave (EN 50130-4:1995)  
Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder and social alarm systems (EN 50130-4:1995)  
- zamijenjena s: HRN EN 50130-4:2012

- HRN EN 50130-4:1997/A1:2000 en  
Alarmni sustavi – 4. dio: Elektromagnetska kompatibilnost – Norma porodice proizvoda – Zahtjevi otpornosti alarmnih sustava za požar i provalu i zahtjevi otpornosti za socijalne alarmne sustave (EN 50130-4:1995/A1:1998)  
Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder and social alarm systems (EN 50130-4:1995/A1:1998)  
- zamijenjena s: HRN EN 50130-4:2012
- HRN EN 50130-4:1997/A2:2004 en  
Alarmni sustavi – 4. dio: Elektromagnetska kompatibilnost – Norma porodice proizvoda – Zahtjevi otpornosti alarmnih sustava na požar i provalu i zahtjevi otpornosti za socijalne alarmne sustave (EN 50130-4:1995/A2:2003)  
Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder and social alarm systems (EN 50130-4:1995/A2:2003)  
- zamijenjena s: HRN EN 50130-4:2012
- HRN EN 50130-4:1997/A2:2004/Ispr.1:2013 en  
Alarmni sustavi – 4. dio: Elektromagnetska kompatibilnost – Norma porodice proizvoda – Zahtjevi otpornosti alarmnih sustava na požar i provalu i zahtjevi otpornosti za socijalne alarmne sustave (EN 50130-4:1995/A2:2003/AC:2003)  
Alarm systems – Part 4: Electromagnetic compatibility – Product family standard: Immunity requirements for components of fire, intruder and social alarm systems (EN 50130-4:1995/A2:2003/AC:2003)  
- zamijenjena s: HRN EN 50130-4:2012
- HRN EN 50130-5:2000 en  
Alarmni sustavi – 5. dio: Metode ispitivanja pri utjecaju okoliša (EN 50130-5:1998)  
Alarm systems – Part 5: Environmental test methods (EN 50130-5:1998)  
- zamijenjena s: HRN EN 50130-5:2013
- HRN EN 50132-1:2011 en  
Alarmni sustavi – Sustavi nadzora pomoću TV zatvorenog kruga za uporabu u primjenama zaštite – 1. dio: Zahtjevi za sustave (EN 50132-1:2010)  
Alarm systems – CCTV surveillance systems for use in security applications – Part 1: System requirements (EN 50132-1:2010)  
- zamijenjena s: HRN EN 62676-1-1:2014
- HRN EN 50136-1-1:2000 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-1: Opći zahtjevi za sustave za prijenos signala alarma (EN 50136-1-1:1998)  
Alarm systems – Alarm transmission systems and equipment – Part 1-1: General requirements for alarm transmission systems (EN 50136-1-1:1998)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-1:2000/A2:2008 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-1: Opći zahtjevi za sustave za prijenos signala alarma (EN 50136-1-1:1998/A2:2008)  
Alarm systems – Alarm transmission systems and equipment – Part 1-1: General requirements for alarm transmission systems (EN 50136-1-1:1998/A2:2008)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-1/A1:2004 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-1: Opći zahtjevi za sustave za prijenos signala alarma (EN 50136-1-1:1998/A1:2001)  
Alarm systems – Alarm transmission systems and equipment – Part 1-1: General requirements for alarm transmission systems (EN 50136-1-1:1998/A1:2001)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-2:2000 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-2: Zahtjevi za sustave koji primjenjuju prijenosne putove namijenjene za signale alarma (EN 50136-1-2:1998)  
Alarm systems – Alarm transmission systems and equipment – Part 1-2: Requirements for systems using dedicated alarm paths (EN 50136-1-2:1998)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-3:2000 en  
Alarmni sustavi – Sustavi i uređaji za prijenos alarma – Dio 1-3: Zahtjevi za sustave s digitalnim komunikatorima koji primjenjuju javnu komutiranu telefonsku mrežu (EN 50136-1-3:1998)  
Alarm systems – Alarm transmission systems and equipment – Part 1-3: Requirements for systems with digital communicators using the public switched telephone network (EN 50136-1-3:1998)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-4:2000 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-4: Zahtjevi za sustave s komunikatorima s glasom koji primjenjuju javnu komutiranu telefonsku mrežu (EN 50136-1-4:1998)  
Alarm systems – Alarm transmission systems and equipment – Part 1-4: Requirements for systems with voice communicators using the public switched telephone network (EN 50136-1-4:1998)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 50136-1-5:2008 en  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – Dio 1-5: Zahtjevi za paketnu komutiranu mrežu PSN (EN 50136-1-5:2008)  
Alarm systems – Alarm transmission systems and equipment – Part 1-5: Requirements for packet switched network PSN (EN 50136-1-5:2008)  
- zamijenjena s: HRN EN 50136-1:2013
- HRN EN 60839-11-1:2013/Ispr.1:2014 en  
Alarmni i elektronički sigurnosni sustavi – Dio 11-1: Norma za elektroničke sustave kontrole ulaska – Zahtjevi na sustav i komponente (EN 60839-11-1:2013/AC:2013)  
Alarm and electronic security systems – Part 11-1: Electronic access control systems – System and components requirements (EN 60839-11-1:2013/AC:2013)  
- zamijenjena s: HRN EN 60839-11-1:2013/Ispr.2:2015

## **HZN/TO E88, Vjetroagregati**

- HRN EN 61400-2:2008 en  
Vjetroagregati – 2. dio: Sigurnost malih vjetroagregata (IEC 61400-2:1996; EN 61400-2:1996)  
Wind turbine generator systems – Part 2: Safety of small wind turbines (IEC 61400-2:1996; EN 61400-2:1996)  
- zamijenjena s: HRN EN 61400-2:2009

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

- HRN EN 60268-4:2008 en  
Oprema audiosustava – 4. dio: Mikrofoni (IEC 60268-4:2004; EN 60268-4:2004)  
Sound system equipment – Part 4: Microphones (IEC 60268-4:2004; EN 60268-4:2004)  
- zamijenjena s: HRN EN 60268-4:2011
- HRN EN 60268-7:2003 en  
Oprema audiosustava – 7. dio: Naglavne i ušne slušalice (IEC 60268-7:1996; EN 60268-7:1996)  
Sound system equipment – Part 7: Headphones and earphones (IEC 60268-7:1996; EN 60268-7:1996)  
- zamijenjena s: HRN EN 60268-7:2012
- HRN EN 60268-16:2003 en  
Oprema audiosustava – 16. dio: Objektivno vrednovanje razumljivosti govora s pomoću indeksa razumljivosti govora (IEC 60268-16:2003; EN 60268-16:2003)  
Sound system equipment – Part 16: Objective rating of speech intelligibility by speech transmission index (IEC 60268-16:2003; EN 60268-16:2003)  
- zamijenjena s: HRN EN 60268-16:2012
- HRN EN 60315-9:2003 en  
Metode mjerenja na radijskim prijamnicima za različite vrste odašiljanja – 9. dio: Mjerenje značajki važnih za prijam pomoću radiopodatkovnog sustava (RDS, Radio Data System) (IEC 60315-9:1996; EN 60315-9:1996)  
Methods of measurement on radio receivers for various classes of emission – Part 9: Measurement of the characteristics relevant to radio data system (RDS) reception (IEC 60315-9:1996; EN 60315-9:1996)  
- zamijenjena s: HRN EN 62634:2012



HRN EN 60461:2008 en  
Time and control code for video tape recorders  
(IEC 60461:2001; EN 60461:2001)  
- zamijenjena s: HRN EN 60461:2012

HRN EN 60958-1:2008 en  
Digitalno audiosučelje – 1. dio: Općenito (IEC 60958-1:2004;  
EN 60958-1:2004)  
Digital audio interface – Part 1: General (IEC 60958-1:2004;  
EN 60958-1:2004)  
- zamijenjena s: RN EN 60958-1:2011

HRN EN 60958-3:2003 en  
Digitalno audiosučelje – 3. dio: Uređaji za široku potrošnju  
(IEC 60958-3:2003; EN 60958-3:2003)  
Digital audio interface – Part 3: Consumer application  
(IEC 60958-3:2003;  
EN 60958-3:2003)  
- zamijenjena s: HRN EN 60958-3:2008

HRN EN 61606-1:2008 en  
Audio and audiovisual equipment – Digital audio parts – Basic  
measurement methods of audio characteristics – Part 1:  
General (IEC 61606-1:2003; EN 61606-1:2004)  
- zamijenjena s: HRN EN 61606-1:2011

HRN EN 61606-2:2008 en  
Audio and audiovisual equipment – Digital audio parts – Basic  
measurement methods of audio characteristics – Part 2:  
Consumer use (IEC 61606-2:2003; EN 61606-2:2004)  
- zamijenjena s: HRN EN 61606-2:2011

HRN EN 61883-1:2008 en  
Consumer audio/video equipment – Digital interface – Part 1:  
General (IEC 61883-1:2003; EN 61883-1:2003)  
- zamijenjena s: HRN EN 61883-1:2011

HRN EN 61966-5:2008 en  
Multimedia systems and equipment – Colour measurement  
and management – Part 5: Equipment using plasma display  
panels (IEC 61966-5:2000; EN 61966-5:2001)  
- zamijenjena s: HRN EN 61966-5:2011

HRN EN 61966-7-1:2008 en  
Multimedia systems and equipment – Colour measurement  
and management – Part 7-1: Colour printers – Reflective prints  
– RGB inputs (IEC 61966-7-1:2001; EN 61966-7-1:2002)  
- zamijenjena s: HRN EN 61966-7-1:2011

HRN EN 62071:2008 en  
Helical-scan compressed digital video cassette recording  
system using 6,35 mm magnetic tape – Format D-7  
(IEC 62071:2000; EN 62071:2001)  
- zamijenjena s: HRN EN 62071-1:2008,  
HRN EN 62071-2:2008, HRN EN 62071-3:2008

HRN EN 62087:2008 en  
Methods of measurement for the power consumption of audio,  
video and related equipment (IEC 62087:2002;  
EN 62087:2003)  
- zamijenjena s: HRN EN 62087:2011

HRN EN 62087:2011 en  
Metode mjerenja potrošnje energije audio, video i pripadajuće  
opreme (IEC 62087:2008; EN 62087:2009)  
Methods of measurement for the power consumption of audio,  
video and related equipment (IEC 62087:2008;  
EN 62087:2009)  
- zamijenjena s: HRN EN 62087:2012

HRN EN 62106:2003 en  
Specifikacija radiopodatkovnog sustava (RDS, Radio Data  
System) za VHF/FM radiodifuziju zvuka u frekvencijskom  
području od 87,5 do 108,0 MHz (IEC 62106:2000;  
EN 62106:2001)  
Specification of the radio data system (RDS) for VHF/FM  
sound broadcasting in the frequency range from 87,5 to 108,0 MHz  
(IEC 62106:2000; EN 62106:2001)  
- zamijenjena s: HRN EN 62106:2011

HRN EN 62216-1:2008 en  
Digital terrestrial television receivers for the DVB-T system  
– Part 1: Baseline receiver specific (IEC 62216-1:2001;  
EN 62216-1:2002)  
- zamijenjena s: HRN EN 62216:2012

HRN EN 62365:2008 en  
Digital audio – Digital input-output interfacing – Transmission  
of digital audio over asynchronous transfer mode (ATM)  
networks (IEC 62365:2004; EN 62365:2005)  
- zamijenjena s: HRN EN 62365:2011

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

HRN CLC/TR 62102:2007 en  
Električna sigurnost – Razredba sučelja za opremu koja se  
priključuje na mreže informacijske i komunikacijske tehnologije  
(IEC/TR 62102:2001; CLC/TR 62102:2005)  
Electrical safety – Classification of interfaces for equipment to  
be connected to information and communications technology  
networks (IEC/TR 62102:2001; CLC/TR 62102:2005)  
- zamijenjena s: HRN CLC/TR 62102:2007

HRN IEC 62368-1:2010 en  
Oprema audio/video, informacijske i komunikacijske  
tehnologije – Zahtjevi sigurnosti (IEC 62368-1:2010)  
Audio/video, information and communication technology  
equipment – Part 1: Safety requirements (IEC 62368-1:2010)  
- zamijenjena s: HRN EN 62368-1:2014

HRN IEC 62368-1:2010/Ispr.1:2011 en  
Oprema audio/video, informacijske i komunikacijske  
tehnologije – 1. dio: Sigurnosni zahtjevi  
(IEC 62368-1:2010/Corr.1:2010)  
Audio/video, information and communication technology  
equipment – Part 1: Safety requirements  
(IEC 62368-1:2010/Corr.1:2010)  
- zamijenjena s: HRN EN 62368-1:2014

HRI IEC/TR 62368-2:2012 en  
Oprema audio/video, informacijske i komunikacijske  
tehnologije – Objasnidbene informacije koje se odnose na  
IEC 62368-1 (IEC/TR 62368-2:2011)  
Audio/video, information and communication technology  
equipment – Part 2: Explanatory information related to  
IEC 62368-1 (IEC/TR 62368-2:2011)  
- zamijenjena s: HRI IEC/TR 62368-2:2015

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

HRN CLC/R210-008:2004 en  
Upute za EMC sukladnost uređaja namijenjenih za vojne i  
druge svrhe (CLC/R210-008:2002)  
Guide to EMC conformity of apparatus designed for military  
and other purposes (CLC/R210-008:2002)  
- zamijenjena s: HRI CLC/TR 50538:2011

HRN CLC/R210-010:2005 en  
Elektromagnetska kompatibilnost – Mjerenje emisije u potpuno  
elektromagnetski upojnoj prostoriji (CLC/R210-010:2002)  
Electromagnetic compatibility – Emission measurement in  
fully anechoic chambers (CLC/R210-010:2002)  
- zamijenjena s: HRI CLC/TR 50485:2011

HRN EN 55103-1:1997 en  
Elektromagnetska kompatibilnost – Norma porodice proizvoda  
za audio, video, audio-vizuelne i zabavne svjetlosne  
upravljanje uređaje za profesionalnu uporabu – 1. dio: Emisija  
(EN 55103-1:1996)  
Electromagnetic compatibility – Product family standard for  
audio, video, audio-visual and entertainment lighting control  
apparatus for professional use – Part 1: Emission  
(EN 55103-1:1996)  
- zamijenjena s: HRN EN 55103-1:2010

HRN EN 55103-2:1997 en  
Elektromagnetska kompatibilnost – Norma porodice proizvoda  
za audio, video, audiovizuelne i zabavne svjetlosne upravljane  
uređaje za profesionalnu uporabu – 2. dio: Otpornost  
(EN 55103-2:1996)  
Electromagnetic compatibility – Product family standard for  
audio, video, audio-visual and entertainment lighting control  
apparatus for professional use – Part 2: Immunity  
(EN 55103-2:1996)  
- zamijenjena s: HRN EN 55103-2:2010

HRN ENV 61000-2-2:1997 en  
Elektromagnetska kompatibilnost – 2. dio: Okoliš – 2. odsjek:  
Razine kompatibilnosti za niskofrekvencijske provodne  
smetnje i dojavu u javnim niskonaponskim energetskim  
sustavima (IEC 61000-2-2:1990, Mod.; ENV 61000-2-2:1993)  
Electromagnetic compatibility – Part 2: Environment –  
Section 2: Compatibility levels for low-frequency conducted  
disturbances and signaling in public low-voltage power supply  
systems (IEC 61000-2-2:1990, Mod.; ENV 61000-2-2:1993)  
- bez zamjene

HRN EN 61000-4-30:2008 en  
Elektromagnetska kompatibilnost (EMC) – Dio 4-30: Ispitne i mjerne tehnike – Metode mjerenja kvalitete električne energije (IEC 61000-4-30:2003; EN 61000-4-30:2003)  
Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurements methods (IEC 61000-4-30:2003; EN 61000-4-30:2003)  
- zamijenjena s: HRN EN 61000-4-30:2009

HRN EN 61000-4-8:1997 en  
Elektromagnetska kompatibilnost – 4. dio: Ispitna i mjerna tehnika – 8. odjeljak: Ispitivanje otpornosti na magnetsko polje s frekvencijom napajanja – Osnovna norma za elektromagnetsku kompatibilnost (IEC 61000-4-8:1993; EN 61000-4-8:1993)  
EMC – Part 4: Testing and measurement techniques – Section 8: Power frequency magnetic field immunity test – Basic EMC Publication (IEC 61000-4-8:1993; EN 61000-4-8:1993)  
- zamijenjena s: HRN EN 61000-4-8:2011

HRN EN 61000-4-8/A1:2001 en  
Elektromagnetska kompatibilnost (EMC) – Dio 4-8: Ispitna i mjerna tehnika – Ispitivanje otpornosti na magnetsko polje frekvencije napajanja – Osnovna EMC norma (IEC 1000-4-8:1993/A1:2000; EN 61000-4-8:1993/A1:2001)  
Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test – Basic EMC Publication (IEC 1000-4-8:1993/A1:2000; EN 61000-4-8:1993/A1:2001)  
- zamijenjena s: HRN EN 61000-4-8:2011

## **HZN/TO Z1, Informacijska tehnologija**

HRN EN 1545-1:2008 en  
Sustavi identifikacijskih kartica – Primjene u kopnenom prijevozu – 1. dio: Osnovne vrste podataka, opći popisi kodova i dijelovi općih podataka (EN 1545-1:2005)  
Identification card systems – Surface transport applications – Part 1: Elementary data types, general code lists and general data elements (EN 1545-1:2005)  
- zamijenjena s: HRN EN 1545-1:2015

HRN EN 1545-2:2008 en  
Sustavi identifikacijskih kartica – Primjene u kopnenom prijevozu – 2. dio: Dijelovi podataka i popisi kodova koji se odnose na plaćanje prijevoza i putovanja (EN 1545-2:2005)  
Identification card systems – Surface transport applications – Part 2: Transport and travel payment related data elements and code lists (EN 1545-2:2005)  
- zamijenjena s: HRN EN 1545-2:2015

HRI ISO/IEC TR 15947:2008 en  
Informacijska tehnologija – Sigurnosne tehnike – Okvir za otkrivanje upada u IT (ISO/IEC TR 15947:2002)  
Information technology – Security techniques – IT intrusion detection framework (ISO/IEC TR 15947:2002)  
- bez zamjene

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

HRN EN 15059:2009 en  
Oprema za tretiranje snijega – Sigurnosni zahtjevi (EN 15059:2009)  
Snow grooming equipment – Safety requirements (EN 15059:2009)  
- zamijenjena s: HRN EN 15059:2015

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

HRN EN ISO 4490:2008 en  
Metalni prah – Određivanje protoka pomoću umjernoga lijevka (Hallow mjerac protoka) (ISO 4490:2008; EN ISO 4490:2008)  
Metallic powders – Determination of flow rate by means of a calibrated funnel (Hall flowmeter) (ISO 4490:2008; EN ISO 4490:2008)  
- zamijenjena s: HRN EN ISO 4490:2015

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

HRN EN 455-3:2008 en  
Medicinske rukavice za jednokratnu upotrebu – 3. dio: Zahtjevi i ispitivanje za biološko vrednovanje (EN 455-3:2006)  
Medical gloves for single use – Part 3: Requirements and testing for biological evaluation (EN 455-3:2006)  
- zamijenjena s: HRN EN 455-3:2015

HRN EN ISO 7494-2:2004 en  
Stomatologija – Stomatološke radne jedinice – 2. dio: Sustavi opskrbe vodom i zrakom (ISO 7494-2:2003; EN ISO 7494-2:2003)  
Dentistry – Dental units – Part 2: Water and air supply (ISO 7494-2:2003; EN ISO 7494-2:2003)  
- zamijenjena s: HRN EN ISO 7494-2:2015

HRN EN ISO 11144:2008 en  
Stomatološka oprema – Priklučci za dovodne i odvodne vodove (ISO 11144:1995; EN ISO 11144:1996)  
Dental equipment – Connections for supply and waste lines (ISO 11144:1995; EN ISO 11144:1996)  
- zamijenjena s: HRN EN ISO 7494-2:2015

HRN CEN/TR 12401:2004 en  
Stomatologija – Upute za razvrstavanje stomatoloških naprava i pribora (CEN/TR 12401:2003)  
Dentistry – Guidance on the classification of dental devices and accessories (CEN/TR 12401:2003)  
- zamijenjena s: HRI CEN/TR 12401:2015

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

HRN EN 2997-009:2011 en  
Nizovi o zrakoplovstvu – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – 009. dio: Zaštitni omotač za utikač – Norma za proizvod (EN 2997-009:2010)  
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 009: Protective cover for receptacle – Product standard (EN 2997-009:2010)  
- zamijenjena s: HRN EN 2997-009:2015

HRN EN 2997-010:2011 en  
Nizovi o zrakoplovstvu – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – 010. dio: Zaštitni omotač za utikač – Norma za proizvod (EN 2997-010:2010)  
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 010: Protective cover for plug – Product standard (EN 2997-010:2010)  
- zamijenjena s: HRN EN 2997-010:2015

HRN EN 3545-005:2008 en  
Nizovi o zrakoplovstvu – Spojnice, električne, pravokutne, zabrtvljene ili nezabrtvljene sa zadnje strane, plastično kućište, uređaj za osiguranje, radne temperature od -55 °C do 175 °C – 005. dio: Žensko kodiranje i priključni sustav za ugradnju na slobodno kućište (utikač) – Norma za proizvod (EN 3545-005:2006)  
Aerospace series – Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C – Part 005: Female coding and attachment System for mounting on free housing (plug) – Product standard (EN 3545-005:2006)  
- zamijenjena s: HRN EN 3545-005:2015

HRN EN 3545-007:2008 en  
Nizovi o zrakoplovstvu – Spojnice, električne, pravokutne, zabrtvljene ili nezabrtvljene sa zadnje strane, plastično kućište, uređaj za osiguranje, radne temperature od -55 °C do 175 °C – 007. dio: Držac kabela – Norma za proizvod (EN 3545-007:2005)  
Aerospace series – Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C – Part 007: Cable clamp – Product standard (EN 3545-007:2005)  
- zamijenjena s: HRN EN 3545-007:2015

HRN EN 3716-004:2008 en  
Nizovi o zrakoplovstvu – Spojnice, jednostrane s troosnim sučeljem, za prijenos digitalnih podataka – 004. dio: Lemljeni utikač – Norma za proizvod (EN 3716-004:2006)  
Aerospace series – Connectors, single-way with triaxial interface, for transmission of digital data – Part 004: Solder plug – Product standard (EN 3716-004:2006)  
- zamijenjena s: HRN EN 3716-004:2015

HRN EN 4550-1:2008 en  
Nizovi o zrakoplovstvu – Cijevni priključak, 37° – Konfiguracija oblikovanja – Nizovi u inčima – 1. dio: Muški krajevi za brtvljenje, kuglasti (EN 4550-1:2003)  
Aerospace series – Pipe coupling, 37° – Design configuration – Inch series – Part 1: Male sealing ends, spherical (EN 4550-1:2003)  
- zamijenjena s: HRN EN 4550-1:2015

HRN EN 4550-4:2008 en  
Nizovi o zrakoplovstvu – Cijevni priključak, 37° – Konfiguracija oblikovanja – Nizovi u inčima – 4. dio: Ženski krajevi za brtvljenje (EN 4550-4:2003)  
Aerospace series – Pipe coupling, 37° – Design configuration – Inch series – Part 4: Female sealing ends (EN 4550-4:2003)  
- zamijenjena s: HRN EN 4550-4:2015

HRN EN 4701-001:2013 en  
Nizovi o zrakoplovstvu – Spojnice, optičke, kvadratne, modularne, radne temperature 125 °C, spojnice za EN 4531 – 001. dio: Tehničke specifikacije (EN 4701-001:2013)  
Aerospace series – Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531 contacts – Part 001: Technical specification (EN 4701-001:2013)  
- zamijenjena s: HRN EN 4701-001:2015

HRN EN 6059-502:2011 en  
Nizovi o zrakoplovstvu – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 502. dio: Otpornost na električne lukove (EN 6059-502:2009)  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 502: Resistance to electrical arcs (EN 6059-502:2009)  
- zamijenjena s: HRN EN 6059-502:2015

HRN EN 9103:2008 en  
Nizovi o zrakoplovstvu – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama (EN 9103:2005)  
Aerospace series – Quality management systems – Variation management of key characteristics (EN 9103:2005)  
- zamijenjena s: HRN EN 9103:2015

## HZN/TU U1, *Opća elektrotehnika 1*

HRN HD 630.3.1 S3:2004 en  
Niskonaponski osigurači – Dio 3-1: Dodatni zahtjevi za osigurače kojima rukuje nestručne osobe (osigurači namijenjeni uglavnom za primjenu u kućanstvu i slično) – Odjeljak I. do IV.  
(IEC 60269-3-1:1994+am1:1995+am2:2001; HD 630.3.1 S3:2002)  
Low-voltage fuses – Part 3-1: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) – Sections I to IV  
(IEC 60269-3-1:1994+am1:1995+am2:2001; HD 630.3.1 S3:2002)  
- zamijenjena s: HRN HD 60269-3-1:2009

HRN EN 50199:1997 en  
Elektromagnetska kompatibilnost – Proizvodna norma opreme za lučno zavarivanje (EN 50199:1995)  
EMC – Product standard for arc welding equipment (EN 50199:1995)  
- zamijenjena s: HRN EN 60974-10:2009

HRN EN 60068-2-32:2008 en  
Osnovni postupci ispitivanja okoliša – 3. dio: Ispitivanja – Ed ispitivanje: Slobodni pad  
(IEC 60068-2-32:1975+am2:1990; EN 60068-2-32:1993)  
Basic environmental testing procedures – Part 2: Tests – Test Ed: Free fall (IEC 60068-2-32:1975+am2:1990; EN 60068-2-32:1993)  
- zamijenjena s: HRN EN 60068-2-31:2009

HRN HD 60269-3-1:2009 en  
Niskonaponski osigurači – Dio 3-1: Dodatni zahtjevi za osigurače kojima rukuju nestručne osobe (osigurači uglavnom namijenjeni za kućanstvo i slične primjene) – Odjeljak I do IV: Primjeri tipova standardiziranih osigurača  
(IEC 60269-3-1: 2004, MOD; HD 60269-3-1:2004)  
Low-voltage fuses – Part 3-1: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) – Sections I to IV: Examples of types of standardized fuses  
(IEC 60269-3-1:2004, MOD; HD 60269-3-1:2004)  
- zamijenjena s: HRN HD 60269-3:2009

HRN HD 60269-3:2009 en  
Niskonaponski osigurači – 3. dio: Dodatni zahtjevi za osigurače kojima rukuju nestručne osobe (osigurači uglavnom za kućanstvo ili slične primjene) – Primjeri normiranih sustava osigurača A do F  
(IEC 60269-3:2006, MOD; HD 60269-3:2007)  
Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) – Examples of standardized systems of fuses A to F (IEC 60269-3:2006, MOD; HD 60269-3:2007)  
- zamijenjena s: HRN HD 60269-3:2011

HRN EN 60974-6:2008 en  
Oprema za elektrolučno zavarivanje – 6. dio: Izvori napajanja za ručno elektrolučno zavarivanje s ograničenim radnim ciklusom (IEC 60974-6:2003; EN 60974-6:2003)  
Arc welding equipment – Part 6: Limited duty manual metal arc welding power sources (IEC 60974-6:2003; EN 60974-6:2003)  
- zamijenjena s: HRN EN 60974-6:2011

HRN EN 60974-6:2008/Ispr.1:2012 en  
Oprema za elektrolučno zavarivanje – 6. dio: Izvori napajanja za ručno elektrolučno zavarivanje s ograničenim radnim ciklusom (EN 60974-6:2003/AC:2005)  
Arc welding equipment – Part 6: Limited duty manual metal arc welding power sources (EN 60974-6:2003/AC:2005)  
- zamijenjena s: HRN EN 60974-6:2011

## HZN/TU V1, *Elektronika 1*

HRN EN 60939-1:2008 en  
Passive filter units for electromagnetic interference suppression – Part 1: Generic specification  
(IEC 60939-1:2005; EN 60939-1:2005)  
- zamijenjena s: HRN EN 60939-1:2011

HRN EN 60939-1:2008/Ispr.1:2009 en  
Passive filter units for electromagnetic interference suppression – Part 1: Generic specification  
(EN 60939-1:2005/AC:2009)  
- zamijenjena s: HRN EN 60939-1:2011

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

HRN EN 50144-1:2008 en  
Sigurnost ručnih elektromotornih alata – 1. dio: Opći zahtjevi  
(EN 50144-1:1998+A1:2002+A2:2003)  
Safety of hand-held electric motor operated tools – Part 1: General requirements (EN 50144-1:1998+A1:2002+A2:2003)  
- zamijenjena s: HRN EN 50580:2013, HRN EN 60745-1:2008

HRN EN 50144-1:2008/Ispr.1:2014 en  
Sigurnost ručnih elektromotornih alata – 1. dio: Opći zahtjevi  
(EN 50144-1:1998/AC:2005)  
Safety of hand-held electric motor operated tools – Part 1: General requirements (EN 50144-1:1998/AC:2005)  
- bez zamjene

HRN EN 50144-2-7:2008 en  
Sigurnost ručnih elektromotornih alata – Dio 2-7: Posebni zahtjevi pištolja za štrcanje (EN 50144-2-7:2000)  
Safety of hand-held electric motor operated tools – Part 2-7: Particular requirements for spray guns (EN 50144-2-7:2000)  
- zamijenjena s: HRN EN 50580:2013

HRN EN 50144-2-7:2008/Ispr.1:2014 en  
Sigurnost ručnih elektromotornih alata – Dio 2-7: Posebni zahtjevi pištolja za štrcanje (EN 50144-2-7:2000/AC:2003)  
Safety of hand-held electric motor operated tools – Part 2-7: Particular requirements for spray guns (EN 50144-2-7:2000/AC:2003)  
- bez zamjene

HRN EN 60745-1:2008 en  
Ručni elektromotorni alati – Sigurnost – 1. dio: Opći zahtjevi (IEC 60745-1:2001, MOD+am1:2002+Corr.1:2003; EN 60745-1:2003+A1:2003)  
Hand-held motor-operated electric tools – Safety – Part 1: General requirements  
(IEC 60745-1:2001, MOD+am1:2002+Corr.1:2003; EN 60745-1:2003+A1:2003)  
- zamijenjena s: HRN EN 60745-1:2009

HRN EN 60745-2-2:2008 en  
Ručni elektromotorni alati – Sigurnost – Dio 2-2: Posebni zahtjevi za izvijače i udarne izvijače  
(IEC 60745-2-2:2003, MOD; EN 60745-2-2:2003)  
Hand-held motor-operated electric tools – Safety – Part 2-2: Particular requirements for screwdrivers and impact wrenches (IEC 60745-2-2:2003, MOD; EN 60745-2-2:2003)  
- zamijenjena s: HRN EN 60745-2-2:2012

HRN EN 60745-2-2:2008/A11:2008 en  
Ručni elektromotorni alati – Sigurnost – Dio 2-2: Posebni zahtjevi za izvijače i udarne izvijače  
(EN 60745-2-2:2003/A11:2007)  
Hand-held motor-operated electric tools – Safety – Part 2-2: Particular requirements for screwdrivers and impact wrenches (EN 60745-2-2:2003/A11:2007)  
- zamijenjena s: HRN EN 60745-2-2:2012

HRN EN 116205-206-207:2008 en

Prazna tiskanica za detaljnu specifikaciju – Hermetički zapečaćeni releji – Za teške statične uvjete okoline (116205) – Za teške prijenosne uvjete okoline (116206) – Za teške zračne uvjete okoline (116207) (EN 116205-206-207:1995)  
Blank detail specification – Hermetically sealed relays – For severe static environmental conditions (116205) – For severe mobile environmental conditions (116206) – For severe airborne environmental conditions (116207)  
(EN 116205-206-207:1995)  
- bez zamjene

## 1.5 Povučeni nacrti hrvatskih norma

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

nHRN EN 60065 hr pp

Audio, video i slični elektronički uređaji – Sigurnosni zahtjevi (IEC 60065:2001+Corr.1:2002, MOD+am1:2005, MOD; EN 60065:2002+AC:2006+AC:2007+A1:2006)  
Audio, video and similar electronic apparatus – Safety requirements (IEC 60065:2001+Corr.1:2002, MOD+am1:2005, MOD; EN 60065:2002+AC:2006+AC:2007+A1:2006)

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

#### • umjesto

HRN EN ISO 9308-3:2000

**Kakvoća vode – Detekcija i brojenje Escherichia coli i koliformnih bakterija u površinskoj i podzemnoj vodi – 3. dio: Minijaturna metoda (metoda najvjerojatnijega broja) naciepljivanjem u tekuću podlogu** (ISO 9308-3:1998; EN ISO 9308-3:1998)  
Water quality – Detection and enumeration of Escherichia coli and coliform bacteria **in surface and waste water – Part 3: Miniaturized method (Most Probable Number) by inoculation in liquid medium** (ISO 9308-3:1998; EN ISO 9308-3:1998)

#### • treba biti

HRN EN ISO 9308-3:2000

**Kvaliteta vode – Detekcija i brojenje Escherichia coli i koliformnih bakterija – 3. dio: Minijaturna metoda (metoda najvjerojatnijega broja) za detekciju i brojenje E. coli u površinskoj i otpadnoj vodi** (ISO 9308-3:1998; EN ISO 9308-3:1998)  
Water quality – Detection and enumeration of Escherichia coli and coliform bacteria – Part 3: Miniaturized method (Most Probable Number) **for the detection and enumeration of E. coli in surface and waste water** (ISO 9308-3:1998; EN ISO 9308-3:1998)

#### • umjesto

HRN EN ISO 9308-3/Ispravak 1:2000

**Kakvoća vode – Detekcija i brojenje Escherichia coli i koliformnih bakterija – 3. dio: Minijaturna metoda (metoda najvjerojatnijega broja) za detekciju i brojenje E. coli u površinskoj i podzemnoj vodi** (ISO 9308-3:1998/Tech. Cor. 1:2000; EN ISO 9308-3:1998/AC:2000)  
Water quality – Detection and enumeration of Escherichia coli and coliform bacteria – Part 3: Miniaturized method (Most Probable Number) for the detection and enumeration of E. coli in surface and waste water  
(ISO 9308-3:1998/Tech. Cor. 1:2000; EN ISO 9308-3:1998/AC:2000)

#### • treba biti

HRN EN ISO 9308-3/Ispravak 1:2000

**Kvaliteta vode – Detekcija i brojenje Escherichia coli i koliformnih bakterija – 3. dio: Minijaturna metoda (metoda najvjerojatnijega broja) za detekciju i brojenje E. coli u površinskoj i otpadnoj vodi** (ISO 9308-3:1998/Cor 1:2000; EN ISO 9308-3:1998/AC:2000)

Water quality – Detection and enumeration of Escherichia coli and coliform bacteria – Part 3: Miniaturized method (Most Probable Number) for the detection and enumeration of E. coli in surface and waste water (ISO 9308-3:1998/Cor 1:2000; EN ISO 9308-3:1998/AC:2000)

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

#### • umjesto

HRN EN 50328:2003/Ispr.1:2014

Željeznički sustav – Stabilna postrojenja – Elektronički učinski pretvarači za podstanice (EN 50328:2003/AC:2006)  
Railway applications – Fixed installations – Electronic power converters for substations (EN 50328:2003/AC:2006)

#### • treba biti

HRN EN 50328:2007/Ispr.1:2014

Željeznički sustav – Stabilna postrojenja – Elektronički učinski pretvarači za podstanice (EN 50328:2003/AC:2006)  
Railway applications – Fixed installations – Electronic power converters for substations (EN 50328:2003/AC:2006)

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

#### • umjesto

HRN EN ISO 5840-3:2013

Kardiovaskularni implantati – Umjetni srčani zalisci (**proteze**) – 3. dio: Nadomjesti srčanog zaliska ugrađeni putem katetera (ISO 5840-3:2013; EN ISO 5840-3:2013)  
Cardiovascular implants – Cardiac valve prostheses – Part 3: Heart valve substitutes implanted by transcatheter techniques (ISO 5840-3:2013; EN ISO 5840-3:2013)

#### • treba biti

HRN EN ISO 5840-3:2013

Kardiovaskularni implantati – Umjetni srčani zalisci – 3. dio: Nadomjesti srčanog zaliska ugrađeni putem katetera (ISO 5840-3:2013; EN ISO 5840-3:2013)  
Cardiovascular implants – Cardiac valve prostheses – Part 3: Heart valve substitutes implanted by transcatheter techniques (ISO 5840-3:2013; EN ISO 5840-3:2013)

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

#### • umjesto

HRN EN 61746-2:2011/Ispr.1:2014

Calibration of optical time-domain reflectometers (OTDR) – Part 2: OTDR for multimode fibres (EN 61746-2:2011/AC:2014)

#### • treba biti

HRN EN 61746-2:2012/Ispr.1:2014

Calibration of optical time-domain reflectometers (OTDR) – Part 2: OTDR for multimode fibres (EN 61746-2:2011/AC:2014)

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

#### • umjesto

HRN EN 50636-2-92:2014

Kućanski i slični električni aparati – Sigurnost – Dio 2-92: Posebni zahtjevi za grebalice i prozračivala trave pogonjena iz mreže s rukovateljem koji hoda (IEC 60335-2-92:2002, MOD; EN 50636-2-92:2014)  
Household and similar electrical appliances – Safety – Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators (IEC 60335-2-92:2002, MOD; EN 50636-2-92:2014)

#### • treba biti

HRN EN 50636-2-92:2014

Kućanski i slični električni aparati – Sigurnost – Dio 2-92: Posebni zahtjevi za grebalice i prozračivala trave pogonjena iz mreže s rukovateljem koji hoda (IEC 60335-2-92:2002, MOD+Corr.1:2003; EN 50636-2-92:2014)  
Household and similar electrical appliances – Safety – Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators (IEC 60335-2-92:2002, MOD+Corr.1:2003; EN 50636-2-92:2014)

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

Sljedeće hrvatske norme ponovo su važeće sukladno odluci HZN-a koji je postupio u skladu s odlukom CEN-ove skupine za upravljanje tehničkim odborima Tehničke uprave (BT/TCMG).

HRN EN 13383-2:2004 en pr  
Kamenozaštite – 2. dio: Ispitne metode (EN 13383-2:2002)  
Armourstone – Part 2: Test methods (EN 13383-2:2002)

## **HZN/TO 557, Zaštitna odjeća**

Sljedeće hrvatske norme ponovo su važeće sukladno odluci HZN-a koji je postupio u skladu s odlukom CEN-ove skupine za upravljanje tehničkim odborima Tehničke uprave (BT/TCMG).

HRN EN 469:2006 en pr  
Zaštitna odjeća za vatrogasce – Zahtjevi za svojstva zaštitne odjeće za gašenje požara (EN 469:2005)  
Protective clothing for firefighters – Performance requirements for protective clothing for firefighting (EN 469:2005)

HRN EN 469:2006/AC:2007 en pr  
Zaštitna odjeća za vatrogasce – Zahtjevi za svojstva zaštitne odjeće za gašenje požara (EN 469:2005/AC:2006)  
Protective clothing for firefighters – Performance requirements for protective clothing for firefighting (EN 469:2005/AC:2006)

HRN EN 469:2006/A1:2008 en pr  
Zaštitna odjeća za vatrogasce – Zahtjevi za svojstva zaštitne odjeće za gašenje požara (EN 469:2005/A1:2006)  
Protective clothing for firefighters – Performance requirements for protective clothing for firefighting (EN 469:2005/A1:2006)

## **1.10 Prijevodi hrvatskih normativnih dokumenata**

### **HZN/TO 136, Namještaj**

Sljedeće hrvatske norme objavljene na engleskome jeziku sada su dostupne i na hrvatskome jeziku:

HRN EN 716-1:2013 hr-en pr-pp  
Namještaj – Dječji krevetići i sklopivi dječji krevetići za kućnu uporabu – 1. dio: Sigurnosni zahtjevi (EN 716-1:2008+A1:2013)  
Furniture – Children's cots and folding cots for domestic use – Part 1: Safety requirements (EN 716-1:2008+A1:2013)

HRN EN 747-1:2012 hr-en pr-pp  
Namještaj – Kreveti na kat i povišeni kreveti – 1. dio: Zahtjevi za sigurnost, čvrstoću i izdržljivost (EN 747-1:2012)  
Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements (EN 747-1:2012)

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

Sljedeća hrvatska norma objavljena na engleskome, francuskome i ruskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN ISO 14050:2010 hr-en,fr,ru pr-pp  
Upravljanje okolišem – Rječnik (ISO 14050:2009; EN ISO 14050:2010)  
Environmental management – Vocabulary (ISO 14050:2009; EN ISO 14050:2010)

## 2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju

### 01.020 Nazivlje (načela i usklađivanje)

#### Međunarodna normizacija ISO

ISO 13611:2014  
Interpreting - Guidelines for community interpreting

ISO 24617-7:2014  
Language resource management - Semantic annotation framework - Part 7: Spatial information (ISOspace)

### 01.040.11 Tehnologija zdravstvene zaštite (Rječnici)

#### Međunarodna normizacija ISO

ISO 29783-2:2015  
Prosthetics and orthotics - Vocabulary - Part 2: Prosthetic gait

### 01.040.13 Okoliš. Zaštita zdravlja. Sigurnost (Rječnici)

#### Europska normizacija CEN

CWA 16833:2014  
Glossary of Terms for Holistic Management of Brownfield Regeneration (GoT-HOMBRE)

### 01.040.19 Ispitivanje (Rječnici)

#### Europska normizacija CEN

EN 1330-1:2014  
Non destructive testing - Terminology - Part 1: List of general terms

### 01.040.27 Prijenos energije i topline (Rječnici)

#### Međunarodna normizacija ISO

ISO 7967-10:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 10: Ignition systems

ISO 7967-11:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 11: Fuel systems

ISO 7967-12:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 12: Exhaust emission control systems

### 01.040.37 Tehnologija obrade slike (Rječnici)

#### Međunarodna normizacija ISO

ISO 12651-2:2014  
Electronic document management - Vocabulary - Part 2: Workflow management

### 01.040.49 Zrakoplovna i svemirska tehnika (Rječnici)

#### Europska normizacija CEN

EN 16601-00-01:2015  
Space systems - Glossary of terms

### 01.040.67 Prehrambena tehnologija (Rječnici)

#### Europska normizacija CEN

EN ISO 5527:2015  
Cereals - Vocabulary (ISO 5527:2015)

### 01.040.83 Industrija gume i plastike (Rječnici)

#### Međunarodna normizacija ISO

ISO 18064:2014  
Thermoplastic elastomers - Nomenclature and abbreviated terms

### 01.070 Kodiranje bojama

#### Europska normizacija CEN

EN ISO 7010:2012/A5:2015  
Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 5 (ISO 7010:2011/Amd 5:2014)

### 01.080.10 Simboli za javne obavijesti

#### Europska normizacija CEN

EN ISO 7010:2012/A5:2015  
Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 5 (ISO 7010:2011/Amd 5:2014)

#### Međunarodna normizacija ISO

ISO 7010 AMD 6:2014  
Graphical symbols - Safety colours and safety signs - Registered safety signs; Amendment 6

### 01.080.20 Grafički simboli za upotrebu na posebnoj opremi

#### Europska normizacija CEN

EN ISO 9687:2015  
Dentistry - Graphical symbols for dental equipment (ISO 9687:2015)

#### Međunarodna normizacija ISO

ISO 7010 AMD 6:2014  
Graphical symbols - Safety colours and safety signs - Registered safety signs; Amendment 6

### **01.080.40 Grafički simboli za upotrebu na električnim i elektroničkim crtežima, shemama, grafikonima i odgovarajućoj dokumentaciji o tehničkome proizvodu**

**Europska normizacija**  
**CENELEC**

EN 62744:2015  
Representation of states of objects by graphical symbols (IEC 62744:2014)

### **01.100.20 Crteži u strojarstvu**

**Međunarodna normizacija**  
**ISO**

ISO 17599:2015  
Technical product documentation (TPD) - General requirements of digital mock-up for mechanical products

### **01.100.30 Konstrukcijski crteži**

**Međunarodna normizacija**  
**ISO**

ISO/TR 16310:2014  
Symbol libraries for construction and facilities management

### **01.110 Tehnička dokumentacija o proizvodu**

**Europska normizacija**  
**CEN**

EN ISO 10628-1:2015  
Diagrams for the chemical and petrochemical industry - Part 1: Specification of diagrams (ISO 10628-1:2014)

### **01.120 Normizacija. Opća pravila**

**Europska normizacija**  
**CEN/CENELEC**

CEN-CENELEC Guide 24:2014  
Use and protection of the trademarks and domain names of CEN and CENELEC

**Međunarodna normizacija**  
**ISO/IEC**

ISO/IEC Guide 50:2014  
Safety aspects - Guidelines for child safety in standards and other specifications

ISO/IEC Guide 71:2014  
Guide for addressing accessibility in standards

### **01.140.20 Informacijske znanosti**

**Međunarodna normizacija**  
**ISO**

ISO 24622-1:2015  
Language resource management - Component Metadata Infrastructure (CMDI) - Part 1: The Component Metadata Model

### **03.080.30 Usluge za potrošače**

**Europska normizacija**  
**CEN**

EN 16489-2:2014  
Professional indoor UV exposure services - Part 2: Required qualification and competence of the indoor UV exposure consultant

EN 16489-3:2014  
Professional indoor UV exposure services - Part 3: Requirements for the provision of services

**Međunarodna normizacija**  
**ISO**

ISO 13009:2015  
Tourism and related services - Requirements and recommendations for beach operation

### **03.080.99 Ostale usluge**

**Europska normizacija**  
**CEN**

EN 16372:2014  
Aesthetic surgery services

**Međunarodna normizacija**  
**ISO/IEC**

ISO/IEC 19395:2015  
Information technology - Sustainability for and by information technology - Smart data centre resource monitoring and control

### **03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito**

**Europska normizacija**  
**CEN**

EN 16646:2014  
Maintenance - Maintenance within physical asset management

**Međunarodna normizacija**  
**ISO**

ISO 19600:2014  
Compliance management systems - Guidelines

ISO 22315:2014  
Societal security - Mass evacuation - Guidelines for planning

### **03.120.10 Upravljanje kvalitetom i osiguravanje kvalitete**

**Europska normizacija**  
**CEN**

EN 9103:2014  
Aerospace series - Quality management systems - Variation management of key characteristics

EN 16679:2014  
Packaging - Tamper verification features for medicinal product packaging

**Međunarodna normizacija**  
**ISO/IEC**

ISO/IEC 90003:2014  
Software engineering - Guidelines for the application of ISO 9001:2008 to computer software

### **03.120.30 Primjena statističkih metoda**

**Međunarodna normizacija**  
**ISO**

ISO 17258:2015  
Statistical methods - Six Sigma - Basic criteria underlying benchmarking for Six Sigma in organisations

## 03.200 Slobodno vrijeme. Turizam

### Međunarodna normizacija ISO

ISO 13009:2015  
Tourism and related services - Requirements and recommendations for beach operation

### 03.220.01 Prijevoz općenito

#### Međunarodna normizacija ISO

ISO 17572-1:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 1: General requirements and conceptual model

ISO 17572-2:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 2: Pre-coded location references (pre-coded profile)

ISO 17572-3:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 3: Dynamic location references (dynamic profile)

## 07.100.20 Mikrobiologija vode

### Europska normizacija CEN

EN 16421:2014  
Influence of materials on water for human consumption - Enhancement of microbial growth (EMG)

## 07.100.99 Ostale norme koje se odnose na mikrobiologiju

### Međunarodna normizacija ISO

ISO 8784-1:2014  
Pulp, paper and board - Microbiological examination - Part 1: Enumeration of bacteria and bacterial spores based on disintegration

## 11.020 Medicinska znanost i sredstva za zdravstvenu zaštitu općenito

### Europska normizacija CEN

EN 16372:2014  
Aesthetic surgery services

## 11.040.01 Medicinska oprema općenito

### Međunarodna normizacija IEC

IEC/TR 80001-2-5:2014  
Application of risk management for IT-networks incorporating medical devices - Part 2-5: Application guidance - Guidance on distributed alarm systems

## 11.040.10 Anestezijska, respiracijska i reanimacijska oprema

### Međunarodna normizacija ISO

ISO 80601-2-70:2015  
Medical Electrical Equipment - Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment

## IEC

IEC 60601-1-11:2015  
Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

## 11.040.25 Šprice. Igle. Kateteri

### Europska normizacija CEN

EN ISO 11608-1:2015  
Needle-based injection systems for medical use - Requirements and test methods - Part 1: Needle-based injection systems (ISO 11608-1:2014)

### Međunarodna normizacija ISO

ISO 11608-1:2014  
Needle-based injection systems for medical use - Requirements and test methods - Part 1: Needle-based injection systems

## 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

### Međunarodna normizacija ISO

ISO 13405-1:2015  
Prosthetics and orthotics - Classification and description of prosthetic components - Part 1: Classification of prosthetic components

ISO 13405-2:2015  
Prosthetics and orthotics - Classification and description of prosthetic components - Part 2: Description of lower limb prosthetic components

ISO 13405-3:2015  
Prosthetics and orthotics - Classification and description of prosthetic components - Part 3: Description of upper limb prosthetic components

ISO 13779-6:2015  
Implants for surgery - Hydroxyapatite - Part 6: Powders

ISO 29783-2:2015  
Prosthetics and orthotics - Vocabulary - Part 2: Prosthetic gait

## 11.040.60 Terapeutska oprema

### Međunarodna normizacija IEC

IEC/TR 62471-3:2015  
Photobiological safety of lamps and lamp systems - Part 3: Guidelines for the safe use of intense pulsed light source equipment on humans

## 11.040.70 Oftalmološka oprema

### Europska normizacija CEN

EN ISO 11979-8:2015  
Ophthalmic implants - Intraocular lenses - Part 8: Fundamental requirements (ISO 11979-8:2006 + Amd 1:2011)

EN ISO 14534:2015  
Ophthalmic optics - Contact lenses and contact lens care products - Fundamental requirements (ISO 14534:2011)



## 11.060.25 Stomatološki instrumenti

Europska normizacija  
CEN

EN ISO 9687:2015  
Dentistry - Graphical symbols for dental equipment  
(ISO 9687:2015)

## 11.080.10 Sterilizacijska oprema

Europska normizacija  
CEN

EN 13060:2014  
Small steam sterilizers

## 11.100.10 In vitro dijagnostički ispitni sustavi

Međunarodna normizacija  
IEC

IEC 61010-2-101:2015  
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment

## 11.120.10 Lijekovi

Europska normizacija  
CEN

EN 16679:2014  
Packaging - Tamper verification features for medicinal product packaging

## 11.180.01 Pomagala za osobe s invaliditetom općenito

Međunarodna normizacija  
ISO/IEC

ISO/IEC Guide 71:2014  
Guide for addressing accessibility in standards

## 11.180.10 Pomagala i prilagodbe za kretanje

Međunarodna normizacija  
ISO

ISO 7176-8:2014  
Wheelchairs - Part 8: Requirements and test methods for static, impact and fatigue strengths

ISO 16840-10:2014  
Wheelchairs - Resistance to ignition of non-integrated seat and back support cushions - Part 10: Requirements and test methods

## 11.180.15 Pomagala za gluhe i osobe oštećenog sluha

Međunarodna normizacija  
IEC

IEC 60118-4:2014  
Electroacoustics - Hearing aids - Part 4: Induction loop systems for hearing aid purposes - System performance requirements

IEC 62489-1 AMD 1:2014  
Electroacoustics - Audio-frequency induction loop systems for assisted hearing - Part 1: Methods of measuring and specifying the performance of system components; Amendment 1

IEC 62489-1 Edition 1.1:2014  
Electroacoustics - Audio-frequency induction loop systems for assisted hearing - Part 1: Methods of measuring and specifying the performance of system components

## 13.020.40 Onečišćenje, nadzor nad onečišćenjem i zaštita od onečišćenja

Međunarodna normizacija  
ISO

IWA 16:2015  
International harmonized method(s) for a coherent quantification of CO<sub>2</sub>e emissions of freight transport

## 13.030.30 Posebni otpad

Europska normizacija  
CENELEC

EN 50574-1:2012/AC:2014  
Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons

## 13.030.40 Instalacije i oprema za odlaganje i obradu otpada

Europska normizacija  
CENELEC

EN 50574-1:2012/AC:2014  
Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons

## 13.030.99 Ostale norme koje se odnose na otpad

Europska normizacija  
CEN

CWA 16833:2014  
Glossary of Terms for Holistic Management of Brownfield Regeneration (GoT-HOMBRE)

CENELEC

EN 50625-2-1:2014  
Collection, logistics and treatment requirements for WEEE - Part 2-1: Treatment requirements for lamps

## 13.040.50 Emisije plinova iz prijevoznih sredstava

Međunarodna normizacija  
ISO

ISO 6460-2:2014  
Motorcycles - Measurement method for gaseous exhaust emissions and fuel consumption - Part 2: Test cycles and specific test conditions

## 13.060.20 Voda za piće

Europska normizacija  
CEN

EN 15768:2015  
Influence of materials on water intended for human consumption - GC-MS identification of water leachable organic substances

## 13.060.45 Ispitivanje vode općenito (uključujući uzorkovanje)

Međunarodna normizacija  
ISO

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

### 13.080.01 Kvaliteta tla i pedologija općenito

#### Europska normizacija CEN

CWA 16833:2014  
Glossary of Terms for Holistic Management of Brownfield  
Regeneration (GoT-HOMBRE)

### 13.080.20 Fizikalna svojstva tla

#### Međunarodna normizacija ISO

ISO 17892-1:2014  
Geotechnical investigation and testing - Laboratory testing of  
soil - Part 1: Determination of water content

ISO 17892-2:2014  
Geotechnical investigation and testing - Laboratory testing of  
soil - Part 2: Determination of bulk density

### 13.080.30 Biološka svojstva tla

#### Europska normizacija CEN

EN ISO 16198:2015  
Soil quality - Plant-based test to assess the environmental  
bioavailability of trace elements to plants (ISO 16198:2015)

#### Međunarodna normizacija ISO

ISO 16198:2015  
Soil quality - Plant-based test to assess the environmental  
bioavailability of trace elements to plants

### 13.080.40 Hidrološka svojstva tla

#### Međunarodna normizacija ISO

ISO 17892-1:2014  
Geotechnical investigation and testing - Laboratory testing of  
soil - Part 1: Determination of water content

### 13.120 Sigurnost u kućanstvu

#### Europska normizacija CENELEC

EN 62115:2005/A12:2015  
Electric toys - Safety

### 13.180 Ergonomija

#### Međunarodna normizacija ISO/IEC

ISO/IEC Guide 71:2014  
Guide for addressing accessibility in standards

### 13.220.10 Vatrogastvo

#### Međunarodna normizacija ISO

ISO 14520-13:2015  
Gaseous fire-extinguishing systems - Physical properties and  
system design - Part 13: IG-100 extinguishant

### 13.220.20 Zaštita od požara

#### Europska normizacija CEN

EN 54-31:2014  
Fire detection and fire alarm system - Part 31: Multi-sensor  
fire detectors - Point detectors using a combination of smoke,  
carbon monoxide and optionally heat sensors

#### Međunarodna normizacija ISO

ISO 6182-12:2014  
Fire protection - Automatic sprinkler systems - Part 12:  
Requirements and test methods for grooved-end components  
for steel pipe systems

ISO 7240-8:2014  
Fire detection and alarm systems - Part 8: Point-type fire  
detectors using a carbon monoxide sensor in combination  
with a heat sensor

### 13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

#### Međunarodna normizacija ISO

ISO 10294-4 AMD 1:2014  
Fire resistance tests - Fire dampers for air distribution  
systems - Part 4: Test of thermal release mechanism -  
Amendment 1: Specific performance requirement for thermal  
release mechanism based upon performance of thermal  
release mechanism used in ISO 10294-1 test specimen

ISO 17554:2014  
Reaction to fire tests - Mass loss measurement

#### IEC

IEC 60695-1-12:2015  
Fire hazard testing - Part 1-12: Guidance for assessing the fire  
hazard of electrotechnical products - Fire safety engineering

### 13.220.50 Vatrootpornost građevnih materijala i elemenata

#### Međunarodna normizacija ISO

ISO 10294-1 AMD 1:2014  
Fire resistance tests - Fire dampers for air distribution systems  
- Part 1: Test method; Amendment 1

ISO 17554:2014  
Reaction to fire tests - Mass loss measurement

ISO 6944-1 AMD 1:2015  
Fire containment - Elements of building construction - Part 1:  
Ventilation ducts; Amendment 1

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

#### Europska normizacija CENELEC

EN 61243-3:2014  
Live working - Voltage detectors - Part 3: Two-pole low-voltage  
type (IEC 61243-3:2014)

EN 61481-1:2014  
Live working - Phase comparators - Part 1: Capacitive type to  
be used for voltages exceeding 1 kV a.c. (IEC 61481-1:2014)

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 61482-1-2:2014  
Live working - Protective clothing against the thermal hazards of an electric arc - Part 1-2: Test methods - Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test) (IEC 61482-1-2:2014)

**Međunarodna normizacija  
IEC**

IEC 61243-3 Corrigendum 1:2015  
Live working - Voltage detectors - Part 3: Two-pole low-voltage type

**13.280 Zaštita od zračenja**

**Međunarodna normizacija  
IEC**

IEC/TR 62461:2015  
Radiation protection instrumentation - Determination of uncertainty in measurement

**13.310 Zaštita od kriminala**

**Europska normizacija  
CENELEC**

EN 62676-3:2015  
Video surveillance systems for use in security applications - Part 3: Analog and digital video interfaces (IEC 62676-3:2013)

**13.320 Alarmni sustavi i sustavi uzbunjivanja**

**Europska normizacija  
CENELEC**

EN 50270:2015  
Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

**13.340.10 Zaštitna odjeća**

**Europska normizacija  
CENELEC**

EN 61482-1-2:2014  
Live working - Protective clothing against the thermal hazards of an electric arc - Part 1-2: Test methods - Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test) (IEC 61482-1-2:2014)

**13.340.20 Zaštitna oprema za glavu**

**Europska normizacija  
CEN**

EN 16471:2014  
Firefighters helmets - Helmets for wildland fire fighting

EN 16473:2014  
Firefighters helmets - Helmets for technical rescue

**13.340.40 Zaštita ruku i šaka**

**Europska normizacija  
CEN**

EN 374-2:2014  
Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

**13.340.60 Zaštita od pada i klizanja**

**Europska normizacija  
CEN**

EN 1263-1:2014  
Temporary works equipment - Safety nets - Part 1: Safety requirements, test methods

EN 1263-2:2014  
Temporary works equipment - Safety nets - Part 2: Safety requirements for the positioning limits

**17.040.30 Mjerni instrumenti**

**Europska normizacija  
CEN**

EN ISO 2692:2014  
Geometrical product specifications (GPS) - Geometrical tolerancing - Maximum material requirement (MMR), least material requirement (LMR) and reciprocity requirement (RPR) (ISO 2692:2014)

EN ISO 14638:2015  
Geometrical product specifications (GPS) - Matrix model (ISO 14638:2015)

**Međunarodna normizacija  
ISO**

ISO 2692:2014  
Geometrical product specifications (GPS) - Geometrical tolerancing - Maximum material requirement (MMR), least material requirement (LMR) and reciprocity requirement (RPR)

ISO 14638:2015  
Geometrical product specifications (GPS) - Matrix model

**17.140.01 Akustička mjerenja i smanjenje buke općenito**

**Međunarodna normizacija  
ISO**

ISO/TR 17534-3:2015  
Acoustics - Software for the calculation of sound outdoors - Part 3: Recommendations for quality assured implementation of ISO 9613-2 in software according to ISO 17534-1

**17.140.20 Buka koju proizvode strojevi i oprema**

**Europska normizacija  
CENELEC**

EN 60704-2-1:2015  
Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for vacuum cleaners (IEC 60704-2-1:2014)

**17.140.30 Buka koju proizvode prijevozna sredstva**

**Međunarodna normizacija  
ISO**

ISO 362-1:2015  
Measurement of noise emitted by accelerating road vehicles - Engineering method - Part 1: M and N categories

**17.140.50 Elektroakustika**

**Međunarodna normizacija  
IEC**

IEC 60318-3:2014  
Electroacoustics - Simulators of human head and ear - Part 3: Acoustic coupler for the calibration of supra-aural earphones used in audiometry

## 17.220.20 Mjerenje električnih i magnetskih veličina

### Europska normizacija CENELEC

- EN 61340-4-4:2012/A1:2015  
Electrostatics - Part 4-4: Standard test methods for specific applications - Electrostatic classification of flexible intermediate bulk containers (FIBC) (IEC 61340-4-4:2012/A1:2014)
- EN 61340-4-8:2015  
Electrostatics - Part 4-8: Standard test methods for specific applications - Electrostatic discharge shielding - Bags (IEC 61340-4-8:2014)
- EN 62586-2:2014/AC:2014  
Power Quality Measurement in power supply systems - Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2013)

### Međunarodna normizacija IEC

- IEC 61557-8:2014  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 8: Insulation monitoring devices for IT systems - Proposed Horizontal Standard
- IEC 61557-9:2014  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 9: Equipment for insulation fault location in IT systems - Proposed Horizontal Standard
- IEC 61557-16:2014  
Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 16: Equipment for testing the effectiveness of the protective measures of electrical equipment and/or medical electrical equipment
- IEC 61786-2:2014  
Measurement of DC magnetic, AC magnetic and AC electrical fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 2: Basic standard for measurements - Proposed Horizontal Standard
- IEC 62110 Corrigendum 1:2015  
Electric and magnetic field levels generated by AC power systems - Measure procedures with regard to public exposure

## 17.240 Mjerenja zračenja

### Europska normizacija CENELEC

- EN 61577-3:2014  
Radiation protection instrumentation - Radon and radon decay product measuring instruments - Part 3: Specific requirements for radon decay product measuring instruments (IEC 61577-3:2011, modified)
- EN 61577-4:2014  
Radiation protection instrumentation - Radon and radon decay product measuring instruments - Part 4: Equipment for the production of reference atmospheres containing radon isotopes and their decay products (STAR) (IEC 61577-4:2009, modified)

### Međunarodna normizacija IEC

- IEC/TR 62461:2015  
Radiation protection instrumentation - Determination of uncertainty in measurement

## 19.100 Nerazorna ispitivanja

### Europska normizacija CEN

- EN 1330-1:2014  
Non destructive testing - Terminology - Part 1: List of general terms

## 23.020.20 Posude i kontejneri ugrađeni na vozila

### Europska normizacija CEN

- EN 15207:2014  
Tanks for the transport of dangerous goods - Plug/socket connection and supply characteristics for service equipment in hazardous areas with 24 V nominal supply voltage

## 23.020.30 Tlačne posude, cilindrični plinski spremnici

### Europska normizacija CEN

- EN 764-4:2014  
Pressure equipment - Part 4: Establishment of technical delivery conditions for metallic materials
- EN 764-5:2014  
Pressure equipment - Part 5: Inspection documentation of metallic materials and compliance with the material specification
- EN 13445-8/A1:2014  
Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys
- EN ISO 11120:2015  
Gas cylinders - Refillable seamless steel tubes of water capacity between 150 l and 3000 l - Design, construction and testing (ISO 11120:2015)

### Međunarodna normizacija ISO

- ISO 11120:2015  
Gas cylinders - Refillable seamless steel tubes of water capacity between 150 l and 3000 l - Design, construction and testing

## 23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

### Europska normizacija CEN

- EN 15632-1+A1:2014  
District heating pipes - Pre-insulated flexible pipe systems - Part 1: Classification, general requirements and test methods
- EN 15632-2+A1:2014  
District heating pipes - Pre-insulated flexible pipe systems - Part 2: Bonded plastic service pipes - Requirements and test methods
- EN 15632-3+A1:2014  
District heating pipes - Pre-insulated flexible pipe systems - Part 2: Bonded plastic service pipes - Requirements and test methods

## 23.080 Pumpe

### Europska normizacija CEN

- EN 16644:2014  
Pumps - Rotodynamic pumps - Glandless circulators having a rated power input not exceeding 200 W for heating installations and domestic hot water installations - Noise test code (vibro-acoustics) for measuring structure- and fluid-borne noise

## 25.040.10 Centri za obradu

### Međunarodna normizacija ISO

- ISO 10791-6:2014  
Test conditions for machining centres - Part 6: Accuracy of speeds and interpolations
- ISO 10791-1:2015  
Test conditions for machining centres - Part 1: Geometric tests for machines with horizontal spindle (horizontal Z-axis)

## 25.060.20 Diobene i stezne naprave za alat i obradak

### Međunarodna normizacija ISO

- ISO 12164-3:2014  
Hollow taper interface with flange contact surface - Part 3: Dimensions of shanks for stationary tools
- ISO 12164-4:2014  
Hollow taper interface with flange contact surface - Part 4: Dimensions of receivers for stationary tools

## 25.080.10 Tokarilice

### Europska normizacija CEN

- EN ISO 23125:2015  
Machine tools - Safety - Turning machines (ISO 23125:2015)

### Međunarodna normizacija ISO

- ISO 23125:2015  
Machine tools - Safety - Turning machines

## 25.080.60 Strojne pile

### Europska normizacija CENELEC

- EN 61029-2-5:2011/A11:2015  
Safety of transportable motor-operated electric tools - Part 2-5: Particular requirements for band saws

## 25.100.70 Abrazivi

### Međunarodna normizacija ISO

- ISO 3919 AMD 1:2014  
Coated abrasives - Flap wheels with shaft; Amendment 1

## 25.120.40 Elektrokemijski strojevi

### Međunarodna normizacija ISO

- ISO 11090-1:2014  
Test conditions for die sinking electro-discharge machines (die sinking EDM) - Testing of the accuracy - Part 1: Single-column machines (cross-slide table type and fixed-table type)
- ISO 11090-2:2014  
Test conditions for die sinking electro-discharge machines (die sinking EDM) - Testing of the accuracy - Part 2: Double-column machines (slide-head type)

## 25.140.20 Električni alati

### Europska normizacija CENELEC

- EN 60745-2-3:2011/A12:2014  
Hand-held motor-operated electric tools - Safety - Part 2-3: Particular requirements for grinders, polishers and disk-type sanders
- EN 61029-2-5:2011/A11:2015  
Safety of transportable motor-operated electric tools - Part 2-5: Particular requirements for band saws

### Međunarodna normizacija IEC

- IEC 62841-2-9:2015  
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

## 25.160.01 Zavarivanje, meko i tvrdo lemljenje općenito

### Europska normizacija CEN

- CEN ISO/TR 14745:2015  
Welding - Post-weld heat treatment parameters for steels (ISO/TR 14745:2015)

### Međunarodna normizacija ISO

- ISO/TR 14745:2015  
Welding - Post-weld heat treatment parameters for steels

## 25.160.50 Tvrdo i meko lemljenje

### Europska normizacija CEN

- EN 16602-70-08:2015  
Space product assurance - Manual soldering of high-reliability electrical connections

## 25.220.20 Površinska obrada

### Europska normizacija CEN

- CEN/TR 15339-1:2014  
Thermal spraying - Safety requirements for thermal spraying equipment - Part 1: General requirements
- CEN/TR 15339-3:2014  
Thermal spraying - Safety requirements for thermal spraying equipment - Part 3: Torches for thermal spraying and their connection and supply units
- CEN/TR 15339-4:2014  
Thermal spraying - Safety requirements for thermal spraying equipment - Part 4: Gas and liquid fuel supply
- CEN/TR 15339-5:2014  
Thermal spraying - Safety requirements for thermal spraying equipment - Part 5: Powder and wire feed units
- EN ISO 12736:2014  
Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO 12736:2014)
- EN ISO 14919:2015  
Thermal spraying - Wires, rods and cords for flame and arc spraying - Classification - Technical supply conditions (ISO 14919:2015)
- EN ISO 14920:2015  
Thermal spraying - Spraying and fusing of self-fluxing alloys (ISO 14920:2015)

## Međunarodna normizacija ISO

- ISO 12736:2014  
Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures
- ISO 14919:2015  
Thermal spraying - Wires, rods and cords for flame and arc spraying - Classification - Technical supply conditions
- ISO 14920:2015  
Thermal spraying - Spraying and fusing of self-fluxing alloys

## 27.010 Tehnika prijenosa energije i topline općenito

### Međunarodna normizacija ISO

- ISO 50004:2014  
Energy management systems - Guidance for the implementation, maintenance and improvement of an energy management system
- ISO 50006:2014  
Energy management systems - Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) - General principles and guidance
- ISO 50015:2014  
Energy management systems - Measurement and verification of energy performance of organizations - General principles and guidance

## 27.020 Motori s unutrašnjim izgaranjem

### Međunarodna normizacija ISO

- ISO 7967-10:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 10: Ignition systems
- ISO 7967-11:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 11: Fuel systems
- ISO 7967-12:2014  
Reciprocating internal combustion engines - Vocabulary of components and systems - Part 12: Exhaust emission control systems

## 27.070 Gorivi članci

### Europska normizacija CENELEC

- EN 50465:2015  
European product standard for combined heating power systems using gas fuel

## 27.080 Dizalice topline

### Europska normizacija CEN

- EN 12309-1:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 1: Terms and definitions
- EN 12309-3:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 3: Test conditions
- EN 12309-4:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 4: Test methods

- EN 12309-5:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 5: Requirements
- EN 12309-6:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 6: Calculation of seasonal performances
- EN 12309-7:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 7: Specific provisions for hybrid appliances

## 27.160 Solarna energetika

### Međunarodna normizacija IEC

- IEC 62894:2014  
Photovoltaic inverters - Data sheet and name plate
- IEC 60904-2:2015  
Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices

## 27.200 Rashladna tehnologija (tehnika)

### Europska normizacija CEN

- EN 16440-1:2015  
Testing methodologies of refrigerating devices for insulated means of transport - Part 1: Mechanical cooling device with forced air circulation evaporator with or without heating device

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

- EN 50160/A1:2015  
Voltage characteristics of electricity supplied by public electricity networks
- EN 61082-1:2015  
Preparation of documents used in electrotechnology - Part 1: Rules (IEC 61082-1:2014)
- EN 62744:2015  
Representation of states of objects by graphical symbols (IEC 62744:2014)

### Međunarodna normizacija IEC

- IEC 60695-1-12:2015  
Fire hazard testing - Part 1-12: Guidance for assessing the fire hazard of electrotechnical products - Fire safety engineering

## 29.035.20 Plastični i gumeni izolacijski materijali

### Europska normizacija CENELEC

- EN 60684-3-284:2014  
Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 284: Heat-shrinkable, sleeveings, for oil barrier applications (IEC 60684-3-284:2014)
- EN 60684-3-285:2014  
Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 285: Heat-shrinkable polyolefin sleeving, for medium voltage joint insulation (IEC 60684-3-285:2014)

## 29.060.20 Kabeli

### Međunarodna normizacija IEC

- IEC 60183:2015  
Guidance for the selection of high-voltage A.C. cable systems
- IEC 60702-1 AMD 1:2015  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 1: Cables
- IEC 60702-1 Edition 3.1:2015  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 1: Cables
- IEC 60702-2 AMD 1:2015  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 2: Terminations
- IEC 60702-2 Edition 2.1:2015  
Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V - Part 2: Terminations

## 29.080.30 Izolacijski sustavi

### Europska normizacija CENELEC

- EN 60071-5:2015  
Insulation co-ordination - Part 5: Procedures for high-voltage direct current (HVDC) converter stations (IEC 60071-5:2014)

## 29.100.01 Sastavni dijelovi za električnu opremu općenito

### Europska normizacija CENELEC

- EN 50625-2-1:2014  
Collection, logistics and treatment requirements for WEEE - Part 2-1: Treatment requirements for lamps

## 29.120.30 Utikači, utičnice, sprežnici

### Europska normizacija CENELEC

- EN 60320-3:2014  
Appliance couplers for household and similar general purposes - Part 3: Standard sheets and gauges (IEC 60320-3:2014)

## 29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

### Europska normizacija CENELEC

- HD 60364-4-42:2011/A1:2015  
Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects (IEC 60364-4-42:2010/A1:2014)

### Međunarodna normizacija IEC

- IEC/PAS 60127-8:2014  
Miniature fuses - Part 8: Fuse resistors with particular overcurrent protection
- IEC 60127-3:2015  
Miniature fuses - Part 3: Sub-miniature fuse-links
- IEC 60691 Edition 3.2:2010  
Thermal-links - Requirements and application guide

## 29.120.70 Sklopnici (releji)

### Međunarodna normizacija IEC

- IEC 61811-1:2015  
Electromechanical telecom elementary relays of assessed quality - Part 1: Generic specification and blank detail specification
- IEC 62246-1:2015  
Reed switches - Part 1: Generic specification

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Europska normizacija CENELEC

- EN 60947-1:2007/A2:2014  
Low-voltage switchgear and controlgear - Part 1: General rules (IEC 60947-1:2007/A2:2014)
- EN 61439-5:2015  
Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks (IEC 61439-5:2014)

## 29.130.99 Ostali rasklopni i upravljački uređaji

### Europska normizacija CENELEC

- EN 50123-6:2003/A1:2014  
Railway applications - Fixed installations - D.C. switchgear - Part 6: D.C. switchgear assemblies

## 29.140.01 Svjetiljke općenito

### Europska normizacija CENELEC

- EN 50625-2-1:2014  
Collection, logistics and treatment requirements for WEEE - Part 2-1: Treatment requirements for lamps

### Međunarodna normizacija IEC

- IEC/TR 62471-3:2015  
Photobiological safety of lamps and lamp systems - Part 3: Guidelines for the safe use of intense pulsed light source equipment on humans

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Europska normizacija CENELEC

- EN 62386-101:2014  
Digital addressable lighting interface - Part 101: General requirements - System components (IEC 62386-101:2014)
- EN 62386-102:2014  
Digital addressable lighting interface - Part 102: General requirements - Control gear (IEC 62386-102:2014)
- EN 62386-103:2014  
Digital addressable lighting interface - Part 103: General requirements - Control devices (IEC 62386-103:2014)

### Međunarodna normizacija IEC

- IEC 60901 AMD 6:2014  
Single-capped fluorescent lamps - Performance specifications; Amendment 6

IEC 61167:2015  
Metal halide lamps - Performance specification

## 29.140.40 Rasvjetna tijela

### Europska normizacija CENELEC

EN 60598-2-20:2015  
Luminaires - Part 2-20: Particular requirements - Lighting chains (IEC 60598-2-20:2014)

EN 60598-2-21:2015  
Luminaires - Part 2-21: Particular requirements - Rope lights (IEC 60598-2-21:2014)

## 29.140.99 Ostale norme koje se odnose na svjetiljke

### Međunarodna normizacija IEC

IEC 62717:2014  
LED modules for general lighting - Performance requirements

IEC 62776:2014  
Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications

## 29.160.30 Motori

### Europska normizacija CENELEC

EN 50598-1:2014  
Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Part 1: General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA), and semi analytic model (SAM)

EN 50598-2:2014  
Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Part 2: Energy efficiency indicators for power drive systems and motor starters

### Međunarodna normizacija IEC

IEC 60335-2-95 AMD 1:2015  
IEC 60335-2-95 A1, Ed. 3: Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

IEC 60335-2-95 Edition 3.1:2015  
Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

## 29.180 Transformatori. Prigušnice

### Europska normizacija CENELEC

EN 50216-4:2015  
Power transformer and reactor fittings - Part 4: Basic accessories (earthing terminal, drain and filling devices, thermometer pocket, wheel assembly)

## 29.220.20 Kiseli sekundarni članci i baterije

### Europska normizacija CENELEC

EN 50342-2:2007/A1:2014  
Lead-acid starter batteries - Part 2: Dimensions of batteries and marking of terminals

### Međunarodna normizacija IEC

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

## 29.220.30 Alkalni sekundarni članci i baterije

### Europska normizacija CENELEC

EN 62620:2015  
Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications (IEC 62620:2014)

## 29.260.20 Električni uređaji za eksplozivnu atmosferu

### Međunarodna normizacija IEC

IEC 60079-18:2014  
Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"

IEC 60079-10-2:2015  
Explosive atmospheres - Part 10-2: Classification of areas - Explosive dust atmospheres

## 29.260.99 Ostala električna oprema za rad u posebnim uvjetima

### Međunarodna normizacija IEC

IEC 61892-7:2014  
Mobile and fixed offshore units - Electrical installations - Part 7: Hazardous areas

## 29.280 Oprema za električnu vuču

### Europska normizacija CENELEC

EN 50123-6:2003/A1:2014  
Railway applications - Fixed installations - D.C. switchgear - Part 6: D.C. switchgear assemblies

## 31.020 Elektronički sastavni dijelovi općenito

### Europska normizacija CENELEC

EN 62137-4:2014  
Electronics assembly technology - Part 4: Endurance test methods for solder joint of area array type package surface mount devices (IEC 62137-4:2014)

### Međunarodna normizacija IEC

IECQ 03-3-2:2014  
IEC Quality Assessment System for Electronic Components (IECQ System) - Rules of Procedure - Part 3-2: IECQ Approved Component Products, Related Materials & Assemblies Scheme, IECQ Approved Component - Automotive Qualification Programme (IECQ AC-AQP)

IECQ 03-5:2014  
IEC Quality Assessment System for Electronic Components (IECQ System) - Rules of Procedure - Part 5: IECQ HSPM Scheme - Hazardous Substance Process Management Requirements



IECQ 04-3-2:2014  
IEC Quality Assessment System for Electronic Components (IECQ System) - Standard Training - Part 3-2: Standard operational procedures for conducting IECQ AC-AQP Training

IEC/TR 62699-1:2014  
Mapping rules and exchanges methods for heterogeneous electronic - Part 1: Building an integrated search system

### 31.040.10 Nepromjenjivi otpornici

**Europska normizacija**  
**CENELEC**

EN 60115-2:2015  
Fixed resistors for use in electronic equipment - Part 2: Sectional specification: Leaded fixed low power film resistors (IEC 60115-2:2014, modified)

### 31.060.99 Ostali kondenzatori

**Međunarodna normizacija**  
**IEC**

IEC 62813:2015  
IEC 62813, Ed. 1: Lithium ion capacitors for use in electric and electronic equipment - Test methods for electrical characteristics

### 31.120 Elektronički uređaji za prikazivanje

**Međunarodna normizacija**  
**IEC**

IEC 61747-40-2:2015  
Liquid crystal display devices - Part 40-2: Mechanical testing of display cover glass for mobile devices - Uni-axial flexural strength (4-point bend)

IEC 61747-40-3:2015  
Liquid crystal display devices - Part 40-3: Mechanical testing of display cover glass for mobile devices - Biaxial flexural energy-to-failure (Ball drop)

IEC 61747-40-4:2015  
Liquid crystal display devices - Part 40-4: Mechanical testing of display cover glass for mobile devices - Biaxial flexural strength (Ring-on-ring)

### 31.180 Tiskani krugovi i pločice

**Europska normizacija**  
**CEN**

EN 16602-70-10:2015  
Space product assurance - Qualification of printed circuit boards

EN 16602-70-11:2015  
Space product assurance - Procurement of printed circuit boards

**Međunarodna normizacija**  
**IEC**

IEC 61189-5-2:2015  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-2: General test methods materials and assemblies - Soldering flux for printed board assemblies

IEC 61189-5-3:2015  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-3: General test methods for materials and assemblies - Soldering paste for printed board assemblies

IEC 61189-5-4:2015  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-3: General test methods for materials and assemblies - Solder alloys and fluxed and non-fluxed solid wire for printed board assemblies

### 31.190 Sklopovi elektroničkih sastavnih dijelova

**Europska normizacija**  
**CENELEC**

EN 62137-4:2014  
Electronics assembly technology - Part 4: Endurance test methods for solder joint of area array type package surface mount devices (IEC 62137-4:2014)

**Međunarodna normizacija**  
**IEC**

IEC/TR 62699-1:2014  
Mapping rules and exchanges methods for heterogeneous electronic - Part 1: Building an integrated search system

### 31.220.01 Elektromehanički sastavni dijelovi općenito

**Europska normizacija**  
**CENELEC**

EN 50625-2-1:2014  
Collection, logistics and treatment requirements for WEEE - Part 2-1: Treatment requirements for lamps

### 31.240 Mehaničke konstrukcije za elektroničku opremu

**Europska normizacija**  
**CENELEC**

EN 60297-3-108:2015  
Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-108: Dimensions of R-type subracks and plug-in units (IEC 60297-3-108:2014)

### 33.020 Telekomunikacije općenito

**Europska normizacija**  
**CENELEC**

EN 62744:2015  
Representation of states of objects by graphical symbols (IEC 62744:2014)

### 33.040.01 Telekomunikacijski sustavi općenito

**Europska normizacija**  
**ETSI**

ETSI TS 102853 V 1.2.1:2014  
Electronic Signatures and Infrastructures (ESI) - Signature validation procedures and policies

ETSI TS 103294 V 1.1.1:2014  
Speech and multimedia Transmission Quality (STQ) - Quality of Experience - A Monitoring Architecture

ETSI EG 202009-1 V 1.3.1:2014  
User Group - Quality of telecom services - Part 1: Methodology for identification of indicators relevant to the Users

ETSI EG 202009-2 V 1.3.1:2014  
User Group - Quality of telecom services - Part 2: User related indicators on a service specific basis

ETSI ES 202706 V 1.4.1:2014  
Environmental Engineering (EE) - Measurement method for power consumption and energy efficiency of wireless access network equipment

ETSI GS OEU 001 V 2.1.1:2014  
Operational energy Efficiency for Users (OEU) - Global KPIs for ICT Sites

### 33.040.40 Mreže za prijenos podataka

#### Europska normizacija CEN

EN 16603-50-53:2015  
Space engineering - SpaceWire - CCSDS packet transfer protocol

#### ETSI

ETSI GS NFV-PER 001 V 1.1.2:2014  
Network Functions Virtualisation (NFV) - NFV Performance & Portability Best Practises

ETSI GS NFV-PER 002 V 1.1.2:2014  
Network Functions Virtualisation (NFV) - Proofs of Concept - Framework

ETSI GS NFV 002 V 1.2.1:2014  
Network Functions Virtualisation (NFV) - Architectural Framework

ETSI GS NFV 003 V 1.2.1:2014  
Network Functions Virtualisation (NFV) - Terminology for Main Concepts in NFV

### 33.040.60 Telekomunikacije putem elektroenergetskih vodova

#### Europska normizacija CENELEC

EN 50561-1:2013/AC:2014  
Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use

EN 50561-1/AC:2015  
Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use

#### ETSI

ETSI TR 103234 V 1.1.1:2014  
PowerLineTelecommunications - Powerline recommendations for very high bitrate services

### 33.060.20 Prijamna i odašiljačka oprema

#### Europska normizacija ETSI

EN 302217-2-1 V 2.1.1:2014  
Fixed Radio Systems - Characteristics and requirements for point-to-point equipment and antennas - Part 2-1: System-dependent requirements for digital systems operating in frequency bands where frequency co-ordination is applied

### 33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi

#### Europska normizacija ETSI

EN 302217-2-1 V 2.1.1:2014  
Fixed Radio Systems - Characteristics and requirements for point-to-point equipment and antennas - Part 2-1: System-dependent requirements for digital systems operating in frequency bands where frequency co-ordination is applied

### 33.060.40 Kabelski distribucijski sustavi

#### Europska normizacija CENELEC

EN 50607:2015  
Satellite signal distribution over a single coaxial cable - Second generation

#### ETSI

ETSI TS 103239-2 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for MAP-E technology - Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103239-3 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for MAP-E technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103241-2 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for DS-Lite technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103241-3 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for DS-Lite technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103242-2 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 464XLAT technology - Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103242-3 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 464XLAT technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103243-2 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 6rd technology - Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103243-3 V 1.1.1:2014  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 6rd technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103238-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma

ETSI TS 103238-2 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103238-3 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103239-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for MAP-E technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma

ETSI TS 103241-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for DS-Lite technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma

ETSI TS 103242-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 464XLAT technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma

ETSI TS 103243-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for 6rd technology - Part 1: Protocol Implementation Conformance Statement (PICS) profoma

ETSI ES 203259 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Converged Cable Access Platform - Operational Support System Interface

### **33.060.99 Ostala oprema za radiokomunikacije**

#### **Europska normizacija ETSI**

ETSI TS 103143 V 1.1.1:2015  
Reconfigurable Radio Systems (RRS) - System architecture for information exchange between different Geo-location Databases (GLDBs) enabling the operation of White Space Devices (WSDs)

ETSI TS 103145 V 1.1.1:2015  
Reconfigurable Radio Systems (RRS) - System Architecture and High Level Procedures for Coordinated and Uncoordinated Use of TV White Spaces

### **33.070.10 Terestrijalni trunking radio (TETRA)**

#### **Europska normizacija ETSI**

EN 300392-12-22 V 1.4.1:2015  
Terrestrial Trunked Radio (TETRA) - Voice plus Data (V+D) - Part 12: Supplementary services stage 3 - Sub-part 22: Dynamic Group Number Assignment (DGNA)

ETSI TS 103269-2 V 1.1.1:2015  
TETRA and Critical Communications Evolution (TCCE) - Critical Communications Architecture - Part 2: Critical Communications application mobile to network interface architecture

### **33.070.30 Digitalne poboljšane bežične telekomunikacije (DECT)**

#### **Europska normizacija ETSI**

ETSI TS 102527-4 V 1.2.1:2014  
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

### **33.070.50 Globalni sustavi za pokretne komunikacije (GSM)**

#### **Europska normizacija ETSI**

ETSI TS 102281 V 2.4.0:2015  
Railways Telecommunications (RT) - Global System for Mobile communications (GSM) - Detailed requirements for GSM operation on Railways

ETSI TS 122011 V 11.4.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Service accessibility (3GPP TS 22.011 version 11.4.0 Release 11)

ETSI TS 122101 V 9.13.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Service aspects - Service principles (3GPP TS 22.101 version 9.13.0 Release 9)

ETSI TS 122101 V 10.12.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Service aspects - Service principles (3GPP TS 22.101 version 10.12.0 Release 10)

ETSI TS 122101 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Service aspects - Service principles (3GPP TS 22.101 version 11.10.0 Release 11)

ETSI TS 122101 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Service aspects - Service principles (3GPP TS 22.101 version 12.6.0 Release 12)

ETSI TS 122105 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Services and service capabilities (3GPP TS 22.105 version 12.1.0 Release 12)

ETSI TS 122173 V 12.8.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services - Stage 1 (3GPP TS 22.173 version 12.8.0 Release 12)

ETSI TS 122228 V 12.9.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS) - Stage 1 (3GPP TS 22.228 version 12.9.0 Release 12)

ETSI TS 122278 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Service requirements for the Evolved Packet System (EPS) (3GPP TS 22.278 version 12.6.0 Release 12)

ETSI TS 123002 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Network architecture (3GPP TS 23.002 version 12.6.0 Release 12)

ETSI TS 123003 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - Numbering, addressing and identification (3GPP TS 23.003 version 12.5.0 Release 12)

ETSI TS 123007 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Restoration procedures (3GPP TS 23.007 version 12.7.0 Release 12)

ETSI TS 123008 V 10.7.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Organization of subscriber data (3GPP TS 23.008 version 10.7.0 Release 10)

ETSI TS 123008 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Organization of subscriber data (3GPP TS 23.008 version 11.11.0 Release 11)

ETSI TS 123008 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - Organization of subscriber data (3GPP TS 23.008 version 12.5.0 Release 12)

ETSI TS 123041 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - Technical realization of Cell Broadcast Service (CBS) (3GPP TS 23.041 version 12.7.0 Release 12)

ETSI TS 123060 V 11.12.0:2015  
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 11.12.0 Release 11)

ETSI TS 123060 V 12.7.0:2015  
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 12.7.0 Release 12)

- ETSI TS 123203 V 8.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Policy and charging control architecture (3GPP TS 23.203 version 8.15.0 Release 8)
- ETSI TS 123203 V 9.14.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Policy and charging control architecture (3GPP TS 23.203 version 9.14.0 Release 9)
- ETSI TS 123203 V 10.10.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Policy and charging control architecture (3GPP TS 23.203 version 10.10.0 Release 10)
- ETSI TS 123203 V 11.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Policy and charging control architecture (3GPP TS 23.203 version 11.15.0 Release 11)
- ETSI TS 123203 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Policy and charging control architecture (3GPP TS 23.203 version 12.7.0 Release 12)
- ETSI TS 123216 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Single Radio Voice Call Continuity (SRVCC) - Stage 2 (3GPP TS 23.216 version 12.2.0 Release 12)
- ETSI TS 123228 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Subsystem (IMS) - Stage 2 (3GPP TS 23.228 version 12.7.0 Release 12)
- ETSI TS 123237 V 12.8.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Subsystem (IMS) Service Continuity - Stage 2 (3GPP TS 23.237 version 12.8.0 Release 12)
- ETSI TS 123246 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Multimedia Broadcast/Multicast Service (MBMS) - Architecture and functional description (3GPP TS 23.246 version 12.4.0 Release 12)
- ETSI TS 123292 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Subsystem (IMS) centralized services - Stage 2 (3GPP TS 23.292 version 12.5.0 Release 12)
- ETSI TS 123303 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Proximity-based services (ProSe) - Stage 2 (3GPP TS 23.303 version 12.3.0 Release 12)
- ETSI TS 123333 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface: Procedures descriptions (3GPP TS 23.333 version 12.4.0 Release 12)
- ETSI TS 123334 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Subsystem (IMS) Application Level Gateway (IMS-ALG) - IMS Access Gateway (IMS-AGW) interface: Procedures descriptions (3GPP TS 23.334 version 12.6.0 Release 12)
- ETSI TS 123380 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - IMS Restoration Procedures (3GPP TS 23.380 version 12.1.0 Release 12)
- ETSI TS 123401 V 9.16.0:2015  
LTE - General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 9.16.0 Release 9)
- ETSI TS 123401 V 10.13.0:2015  
LTE - General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 10.13.0 Release 10)
- ETSI TS 123401 V 11.11.0:2015  
LTE - General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 11.11.0 Release 11)
- ETSI TS 123401 V 12.7.0:2015  
LTE - General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 12.7.0 Release 12)
- ETSI TS 123402 V 10.10.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 10.10.0 Release 10)
- ETSI TS 123402 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 11.10.0 Release 11)
- ETSI TS 123402 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 12.7.0 Release 12)
- ETSI TS 123468 V 12.3.0:2015  
LTE - Group Communication System Enablers for LTE (GCSE LTE) - Stage 2 (3GPP TS 23.468 version 12.3.0 Release 12)
- ETSI TS 124008 V 11.13.0:2015  
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 11.13.0 Release 11)
- ETSI TS 124008 V 12.8.0:2015  
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 12.8.0 Release 12)
- ETSI TS 124139 V 11.4.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - 3GPP system - fixed broadband access network interworking - Stage 3 (3GPP TS 24.139 version 11.4.0 Release 11)
- ETSI TS 124139 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - 3GPP system - fixed broadband access network interworking - Stage 3 (3GPP TS 24.139 version 12.1.0 Release 12)
- ETSI TS 124147 V 9.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem - Stage 3 (3GPP TS 24.147 version 9.5.0 Release 9)
- ETSI TS 124147 V 10.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem - Stage 3 (3GPP TS 24.147 version 10.5.0 Release 10)
- ETSI TS 124147 V 11.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem - Stage 3 (3GPP TS 24.147 version 11.4.0 Release 11)
- ETSI TS 124147 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem - Stage 3 (3GPP TS 24.147 version 12.4.0 Release 12)

- ETSI TS 124167 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - 3GPP IMS Management Object (MO) - Stage 3  
(3GPP TS 24.167 version 12.3.0 Release 12)
- ETSI TS 124173 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - IMS Multimedia telephony communication service  
and supplementary services - Stage 3 (3GPP TS 24.173 version  
12.3.0 Release 12)
- ETSI TS 124234 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3GPP system to Wireless Local Area Network (WLAN)  
interworking - WLAN User Equipment (WLAN UE) to network  
protocols - Stage 3 (3GPP TS 24.234 version 12.1.0 Release 12)
- ETSI TS 124235 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3GPP System to Wireless Local Area Network (WLAN)  
interworking Management Object (MO) (3GPP TS 24.235 version 12.1.0  
Release 12)
- ETSI TS 124237 V 9.19.0:2015  
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 9.19.0 Release 9)
- ETSI TS 124237 V 10.17.0:2015  
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 10.17.0 Release 10)
- ETSI TS 124237 V 11.13.0:2015  
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 11.13.0 Release 11)
- ETSI TS 124244 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Wireless LAN control plane protocol for trusted WLAN access  
to EPC - Stage 3 (3GPP TS 24.244 version 12.1.0 Release 12)
- ETSI TS 124292 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- IP Multimedia (IM) Core Network (CN) subsystem Centralized  
Services (ICS) - Stage 3 (3GPP TS 24.292 version 12.6.0  
Release 12)
- ETSI TS 124301 V 11.13.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Non-Access-Stratum (NAS) protocol for Evolved Packet  
System (EPS) - Stage 3 (3GPP TS 24.301 version 11.13.0  
Release 11)
- ETSI TS 124301 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Non-Access-Stratum (NAS) protocol for Evolved Packet  
System (EPS) - Stage 3 (3GPP TS 24.301 version 12.7.0  
Release 12)
- ETSI TS 124302 V 12.7.0:2015  
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 12.7.0  
Release 12)
- ETSI TS 124312 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Access Network Discovery and Selection Function (ANDSF)  
Management Object (MO) (3GPP TS 24.312 version 12.7.0  
Release 12)
- ETSI TS 124315 V 11.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - IP Multimedia Subsystem (IMS) Operator  
Determined Barring (ODB) - Stage 3: protocol specification  
(3GPP TS 24.315 version 11.2.0 Release 11)
- ETSI TS 124315 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - IP Multimedia Subsystem (IMS) Operator  
Determined Barring (ODB) - Stage 3: protocol specification  
(3GPP TS 24.315 version 12.1.0 Release 12)
- ETSI TS 124333 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Proximity-services (ProSe) Management Objects (MO)  
(3GPP TS 24.333 version 12.1.0 Release 12)
- ETSI TS 124334 V 12.1.1:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Proximity-services (ProSe) User Equipment  
(UE) to ProSe function protocol aspects - Stage 3  
(3GPP TS 24.334 version 12.1.1 Release 12)
- ETSI TS 124341 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Proximity-services (ProSe) User Equipment  
(UE) to ProSe function protocol aspects - Stage 3  
(3GPP TS 24.334 version 12.1.1 Release 12)
- ETSI TS 124390 V 12.2.0:2015  
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 12.2.0 Release 12)
- ETSI TS 124391 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Unstructured Supplementary Service Data (USSD) using  
IP Multimedia (IM) Core Network (CN) subsystem (IMS)  
Management Object (MO) (3GPP TS 24.391 version 12.2.0  
Release 12)
- ETSI TS 124523 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Core and enterprise Next Generation Network (NGN)  
interaction scenarios - Architecture and functional description  
(3GPP TS 24.523 version 12.2.0 Release 12)
- ETSI TS 124524 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Hosted enterprise services - Architecture, functional description  
and signalling (3GPP TS 24.524 version 12.2.0 Release 12)
- ETSI TS 124525 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Business trunking - Architecture and functional description  
(3GPP TS 24.525 version 12.1.0 Release 12)
- ETSI TS 124604 V 12.5.0:2015  
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 12.5.0 Release 12)
- ETSI TS 124605 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Conference (CONF) using IP Multimedia (IM)  
Core Network (CN) subsystem - Protocol specification  
(3GPP TS 24.605 version 12.4.0 Release 12)
- ETSI TS 124607 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Originating Identification Presentation (OIP) and Originating  
Identification Restriction (OIR) using IP Multimedia (IM)  
Core Network (CN) subsystem - Protocol specification  
(3GPP TS 24.607 version 12.2.0 Release 12)
- ETSI TS 124610 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Communication HOLD (HOLD) using IP Multimedia  
(IM) Core Network (CN) subsystem - Protocol specification  
(3GPP TS 24.610 version 12.6.0 Release 12)
- ETSI TS 124611 V 11.3.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Anonymous Communication Rejection (ACR) and  
Communication Barring (CB) using IP Multimedia (IM)  
Core Network (CN) subsystem - Protocol specification  
(3GPP TS 24.611 version 11.3.0 Release 11)
- ETSI TS 124611 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Anonymous Communication Rejection (ACR) and  
Communication Barring (CB) using IP Multimedia (IM)  
Core Network (CN) subsystem - Protocol specification  
(3GPP TS 24.611 version 12.4.0 Release 12)

- ETSI TS 124615 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem - Protocol Specification (3GPP TS 24.615 version 12.2.0 Release 12)
- ETSI TS 124623 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services (3GPP TS 24.623 version 12.6.0 Release 12)
- ETSI TS 124629 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem - Protocol specification (3GPP TS 24.629 version 12.5.0 Release 12)
- ETSI TS 125101 V 10.13.0:2015  
Universal Mobile Telecommunications System (UMTS) - User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 10.13.0 Release 10)
- ETSI TS 125101 V 11.11.0:2015  
Universal Mobile Telecommunications System (UMTS) - User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 11.11.0 Release 11)
- ETSI TS 125101 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 12.6.0 Release 12)
- ETSI TS 125104 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 11.10.0 Release 11)
- ETSI TS 125104 V 12.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 12.5.0 Release 12)
- ETSI TS 125105 V 11.8.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105 version 11.8.0 Release 11)
- ETSI TS 125105 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105 version 12.1.0 Release 12)
- ETSI TS 125106 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRA repeater radio transmission and reception (3GPP TS 25.106 version 12.1.0 Release 12)
- ETSI TS 125133 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 12.6.0 Release 12)
- ETSI TS 125141 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 11.10.0 Release 11)
- ETSI TS 125141 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 12.6.0 Release 12)
- ETSI TS 125142 V 11.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) conformance testing (TDD) (3GPP TS 25.142 version 11.4.0 Release 11)
- ETSI TS 125142 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Base Station (BS) conformance testing (TDD) (3GPP TS 25.142 version 12.1.0 Release 12)
- ETSI TS 125143 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - UTRA repeater conformance testing (3GPP TS 25.143 version 12.1.0 Release 12)
- ETSI TS 125172 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Requirements for support of Assisted Galileo and Additional Navigation Satellite Systems (A-GANSS) Frequency Division Duplex (FDD) (3GPP TS 25.172 version 12.1.0 Release 12)
- ETSI TS 125173 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Requirements for support of Assisted Galileo and Additional Navigation Satellite Systems (A-GANSS) Time Division Duplex (TDD) (3GPP TS 25.173 version 12.1.0 Release 12)
- ETSI TS 125211 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Physical channels and mapping of transport channels onto physical channels (FDD) (3GPP TS 25.211 version 12.1.0 Release 12)
- ETSI TS 125212 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - Multiplexing and channel coding (FDD) (3GPP TS 25.212 version 12.1.0 Release 12)
- ETSI TS 125214 V 11.11.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Physical layer procedures (FDD) (3GPP TS 25.214 version 11.11.0 Release 11)
- ETSI TS 125214 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Physical layer procedures (FDD) (3GPP TS 25.214 version 12.1.0 Release 12)
- ETSI TS 125300 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Universal Terrestrial Radio Access Network (UTRAN)  
- General description - Stage 2 (3GPP TS 25.300 version 12.3.0 Release 12)
- ETSI TS 125302 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - Services provided by the physical layer (3GPP TS 25.302 version 12.1.0 Release 12)
- ETSI TS 125304 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode (3GPP TS 25.304 version 12.4.0 Release 12)
- ETSI TS 125305 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - Stage 2 functional specification of User Equipment (UE) positioning in UTRAN (3GPP TS 25.305 version 12.1.0 Release 12)
- ETSI TS 125306 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS) - UE Radio Access capabilities (3GPP TS 25.306 version 11.10.0 Release 11)
- ETSI TS 125306 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) - UE Radio Access capabilities (3GPP TS 25.306 version 12.4.0 Release 12)
- ETSI TS 125308 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS) - High Speed Downlink Packet Access (HSDPA) - Overall description - Stage 2 (3GPP TS 25.308 version 12.2.0 Release 12)
- ETSI TS 125319 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Enhanced uplink - Overall description - Stage 2 (3GPP TS 25.319 version 12.2.0 Release 12)
- ETSI TS 125321 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- Medium Access Control (MAC) protocol specification (3GPP TS 25.321 version 12.2.0 Release 12)
- ETSI TS 125402 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - Synchronisation in UTRAN Stage 2 (3GPP TS 25.402 version 12.1.0 Release 12)

- ETSI TS 125413 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling (3GPP TS 25.413 version 12.3.0 Release 12)
- ETSI TS 125419 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP) (3GPP TS 25.419 version 12.1.0 Release 12)
- ETSI TS 125423 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling (3GPP TS 25.423 version 12.3.0 Release 12)
- ETSI TS 125425 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iur interface user plane protocols for Common Transport Channel data streams (3GPP TS 25.425 version 12.2.0 Release 12)
- ETSI TS 125453 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling (3GPP TS 25.453 version 12.2.0 Release 12)
- ETSI TS 125467 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN architecture for 3G Home Node B (HNB) - Stage 2 (3GPP TS 25.467 version 12.3.0 Release 12)
- ETSI TS 125468 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iuh Interface RANAP User Adaption (RUA) signalling (3GPP TS 25.468 version 12.1.0 Release 12)
- ETSI TS 125469 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling (3GPP TS 25.469 version 12.3.0 Release 12)
- ETSI TS 125470 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iuh Interface PCAP User Adaption (PUA) signalling (3GPP TS 25.470 version 12.2.0 Release 12)
- ETSI TS 125471 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- UTRAN Iurh interface Radio Network Subsystem Application Part (RNSAP) User Adaption (RNA) signalling (3GPP TS 25.471 version 12.1.0 Release 12)
- ETSI TS 126114 V 12.8.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - IP Multimedia Subsystem (IMS)  
- Multimedia telephony - Media handling and interaction (3GPP TS 26.114 version 12.8.0 Release 12)
- ETSI TS 126131 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Terminal acoustic characteristics for telephony - Requirements (3GPP TS 26.131 version 12.3.0 Release 12)
- ETSI TS 126132 V 8.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 8.3.0 Release 8)
- ETSI TS 126132 V 9.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 9.4.0 Release 9)
- ETSI TS 126132 V 10.7.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 10.7.0 Release 10)
- ETSI TS 126132 V 11.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 11.5.0 Release 11)
- ETSI TS 126132 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 12.4.0 Release 12)
- ETSI TS 126234 V 12.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Transparent end-to-end Packet-switched Streaming Service (PSS) - Protocols and codecs (3GPP TS 26.234 version 12.5.0 Release 12)
- ETSI TS 126247 V 10.9.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Transparent end-to-end Packet-switched Streaming Service (PSS) - Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 10.9.0 Release 10)
- ETSI TS 126247 V 11.8.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Transparent end-to-end Packet-switched Streaming Service (PSS) - Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 11.8.0 Release 11)
- ETSI TS 126247 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Transparent end-to-end Packet-switched Streaming Service (PSS) - Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 12.4.0 Release 12)
- ETSI TS 126346 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Multimedia Broadcast/Multicast Service (MBMS) - Protocols and codecs (3GPP TS 26.346 version 12.4.0 Release 12)
- ETSI TS 126441 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Codec for Enhanced Voice Services (EVS) - General overview (3GPP TS 26.441 version 12.1.0 Release 12)
- ETSI TS 126442 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Codec for Enhanced Voice Services (EVS) - ANSI C code (fixed-point) (3GPP TS 26.442 version 12.1.0 Release 12)
- ETSI TS 126444 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Codec for Enhanced Voice Services (EVS) - Test sequences (3GPP TS 26.444 version 12.1.0 Release 12)
- ETSI TS 126447 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Codec for Enhanced Voice Services (EVS) - Error concealment of lost packets (3GPP TS 26.447 version 12.1.0 Release 12)
- ETSI TS 126448 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Codec for Enhanced Voice Services (EVS) - Jitter buffer management (3GPP TS 26.448 version 12.1.0 Release 12)
- ETSI TR 126946 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Multimedia Broadcast/Multicast Service (MBMS) user service guidelines (3GPP TR 26.946 version 12.1.0 Release 12)
- ETSI TS 127007 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - AT command set for User Equipment (UE) (3GPP TS 27.007 version 12.7.0 Release 12)
- ETSI TS 128062 V 12.0.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- Inband Tandem Free Operation (TFO) of speech codecs - Service description - Stage 3 (3GPP TS 28.062 version 12.0.0 Release 12)
- ETSI TS 128390 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Fixed Mobile Convergence (FMC) - Interface Integration Reference Point (IRP) Solution Profiles (SPs) (3GPP TS 28.390 version 12.1.0 Release 12)
- ETSI TS 128611 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP) - Requirements (3GPP TS 28.611 version 12.2.0 Release 12)

- ETSI TS 128612 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP)  
- Information Service (IS) (3GPP TS 28.612 version 12.2.0 Release 12)
- ETSI TS 128616 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP)  
- Solution Set (SS) definitions (3GPP TS 28.616 version 12.3.0 Release 12)
- ETSI TS 128628 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.628 version 12.1.0 Release 12)
- ETSI TS 128651 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) - Requirements (3GPP TS 28.651 version 12.1.0 Release 12)
- ETSI TS 128652 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.652 version 12.1.0 Release 12)
- ETSI TS 128653 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) - Solution Set (SS) definitions (3GPP TS 28.653 version 12.1.0 Release 12)
- ETSI TS 128657 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP)  
- Requirements (3GPP TS 28.657 version 12.1.0 Release 12)
- ETSI TS 128658 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP)  
- Information Service (IS) (3GPP TS 28.658 version 12.1.0 Release 12)
- ETSI TS 128659 V 11.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP)  
- Solution Set (SS) definitions (3GPP TS 28.659 version 11.5.0 Release 11)
- ETSI TS 128659 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP)  
- Solution Set (SS) definitions (3GPP TS 28.659 version 12.1.0 Release 12)
- ETSI TS 128667 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Radio Planning Tool (RPT) interface NRM IRP - Requirements (3GPP TS 28.667 version 12.0.0 Release 12)
- ETSI TS 128668 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Radio Planning Tool (RPT) interface NRM IRP - Information Service (IS) (3GPP TS 28.668 version 12.0.0 Release 12)
- ETSI TS 128669 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Radio Planning Tool (RPT) interface NRM IRP - Solution Set (SS) definitions (3GPP TS 28.669 version 12.0.0 Release 12)
- ETSI TS 128672 V 11.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Home Node B (HNB) Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.672 version 11.2.0 Release 11)
- ETSI TS 128672 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Home Node B (HNB) Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.672 version 12.1.0 Release 12)
- ETSI TS 128702 V 11.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.702 version 11.4.0 Release 11)
- ETSI TS 128702 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 28.702 version 12.1.0 Release 12)
- ETSI TS 128703 V 11.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP) - Solution Set (SS) definitions (3GPP TS 28.703 version 11.3.0 Release 11)
- ETSI TS 128703 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP) - Solution Set (SS) definitions (3GPP TS 28.703 version 12.1.0 Release 12)
- ETSI TS 129002 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - Mobile Application Part (MAP) specification (3GPP TS 29.002 version 11.11.0 Release 11)
- ETSI TS 129002 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - Mobile Application Part (MAP) specification (3GPP TS 29.002 version 12.7.0 Release 12)
- ETSI TS 129060 V 9.14.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- General Packet Radio Service (GPRS) - GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 9.14.0 Release 9)
- ETSI TS 129060 V 10.12.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- General Packet Radio Service (GPRS) - GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 10.12.0 Release 10)
- ETSI TS 129060 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- General Packet Radio Service (GPRS) - GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 11.11.0 Release 11)
- ETSI TS 129060 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- General Packet Radio Service (GPRS) - GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 12.7.0 Release 12)



- ETSI TS 129061 V 9.14.0:2015  
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 9.14.0 Release 9)
- ETSI TS 129061 V 10.12.0:2015  
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 10.12.0 Release 10)
- ETSI TS 129061 V 11.9.0:2015  
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 11.9.0 Release 11)
- ETSI TS 129061 V 12.8.0:2015  
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 12.8.0 Release 12)
- ETSI TS 129118 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Mobility Management Entity (MME) - Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 12.7.0 Release 12)
- ETSI TS 129162 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Interworking between the IM CN subsystem and IP networks (3GPP TS 29.162 version 12.6.0 Release 12)
- ETSI TS 129163 V 12.6.0:2015  
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 12.6.0 Release 12)
- ETSI TS 129165 V 9.19.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 9.19.0 Release 9)
- ETSI TS 129165 V 10.17.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 10.17.0 Release 10)
- ETSI TS 129165 V 11.12.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.12.0 Release 11)
- ETSI TS 129165 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 12.6.0 Release 12)
- ETSI TS 129168 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Cell Broadcast Centre interfaces with the Evolved Packet Core - Stage 3 (3GPP TS 29.168 version 12.7.0 Release 12)
- ETSI TS 129201 V 12.1.0:2015  
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 12.1.0 Release 12)
- ETSI TS 129212 V 8.24.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Policy and Charging Control (PCC) - Reference points (3GPP TS 29.212 version 8.24.0 Release 8)
- ETSI TS 129212 V 9.19.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Policy and Charging Control (PCC) - Reference points (3GPP TS 29.212 version 9.19.0 Release 9)
- ETSI TS 129212 V 10.16.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Policy and Charging Control (PCC) - Reference points (3GPP TS 29.212 version 10.16.0 Release 10)
- ETSI TS 129212 V 11.14.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Policy and Charging Control (PCC) - Reference points (3GPP TS 29.212 version 11.14.0 Release 11)
- ETSI TS 129212 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Policy and Charging Control (PCC) - Reference points (3GPP TS 29.212 version 12.7.0 Release 12)
- ETSI TS 129213 V 9.14.0:2015  
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 9.14.0 Release 9)
- ETSI TS 129213 V 11.13.0:2015  
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 11.13.0 Release 11)
- ETSI TS 129213 V 12.6.0:2015  
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 12.6.0 Release 12)
- ETSI TS 129214 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Policy and charging control over Rx reference point (3GPP TS 29.214 version 12.6.0 Release 12)
- ETSI TS 129215 V 10.9.0:2015  
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 10.9.0 Release 10)
- ETSI TS 129215 V 11.15.0:2015  
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 11.15.0 Release 11)
- ETSI TS 129215 V 12.6.0:2015  
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 12.6.0 Release 12)
- ETSI TS 129228 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 129229 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 129230 V 8.19.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Diameter applications - 3GPP specific codes and identifiers (3GPP TS 29.230 version 8.19.0 Release 8)
- ETSI TS 129230 V 9.17.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Diameter applications - 3GPP specific codes and identifiers (3GPP TS 29.230 version 9.17.0 Release 9)

- ETSI TS 129230 V 10.13.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Diameter applications - 3GPP specific codes and identifiers  
(3GPP TS 29.230 version 10.13.0 Release 10)
- ETSI TS 129230 V 11.12.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Diameter applications - 3GPP specific codes and identifiers  
(3GPP TS 29.230 version 11.12.0 Release 11)
- ETSI TS 129230 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Diameter applications - 3GPP specific codes and identifiers  
(3GPP TS 29.230 version 12.7.0 Release 12)
- ETSI TS 129232 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Media Gateway Controller (MGC) - Media Gateway (MGW)  
interface - Stage 3 (3GPP TS 29.232 version 12.1.0 Release 12)
- ETSI TS 129238 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Interconnection Border Control Functions (IBCF)  
- Transition Gateway (TrGW) interface, Ix interface - Stage 3  
(3GPP TS 29.238 version 12.4.0 Release 12)
- ETSI TS 129272 V 11.11.0:2015  
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 12.7.0 Release 12)
- ETSI TS 129272 V 12.7.0:2015  
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 12.7.0 Release 12)
- ETSI TS 129273 V 8.15.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Evolved Packet System (EPS) - 3GPP EPS AAA interfaces  
(3GPP TS 29.273 version 8.15.0 Release 8)
- ETSI TS 129273 V 9.14.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Evolved Packet System (EPS) - 3GPP EPS AAA interfaces  
(3GPP TS 29.273 version 9.14.0 Release 9)
- ETSI TS 129273 V 10.12.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Evolved Packet System (EPS) - 3GPP EPS AAA interfaces  
(3GPP TS 29.273 version 10.12.0 Release 10)
- ETSI TS 129273 V 11.10.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Evolved Packet System (EPS) - 3GPP EPS AAA interfaces  
(3GPP TS 29.273 version 11.10.0 Release 11)
- ETSI TS 129273 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Evolved Packet System (EPS) - 3GPP EPS AAA interfaces  
(3GPP TS 29.273 version 12.6.0 Release 12)
- ETSI TS 129274 V 9.13.0:2015  
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 9.13.0  
Release 9)
- ETSI TS 129274 V 10.14.0:2015  
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 10.14.0  
Release 10)
- ETSI TS 129274 V 11.13.0:2015  
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 11.13.0  
Release 11)
- ETSI TS 129274 V 12.7.0:2015  
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 12.7.0  
Release 12)
- ETSI TS 129275 V 12.5.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling  
protocols - Stage 3 (3GPP TS 29.275 version 12.5.0 Release 12)
- ETSI TS 129276 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3GPP Evolved Packet System (EPS) - Optimized handover  
procedures and protocols between E-UTRAN access and  
cdma2000 HRPD Access - Stage 3 (3GPP TS 29.276 version 12.3.0  
Release 12)
- ETSI TS 129281 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- General Packet Radio System (GPRS) Tunnelling Protocol  
User Plane (GTPv1-U) (3GPP TS 29.281 version 12.1.0 Release 12)
- ETSI TS 129292 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 129328 V 8.16.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - IP Multimedia (IM) Subsystem Sh interface - Signalling  
flows and message contents (3GPP TS 29.328 version 8.16.0  
Release 8)
- ETSI TS 129328 V 9.14.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - IP Multimedia (IM) Subsystem Sh interface - Signalling  
flows and message contents (3GPP TS 29.328 version 9.14.0  
Release 9)
- ETSI TS 129328 V 10.12.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- IP Multimedia (IM) Subsystem Sh interface - Signalling flows  
and message contents (3GPP TS 29.328 version 10.12.0  
Release 10)
- ETSI TS 129328 V 11.13.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- IP Multimedia (IM) Subsystem Sh interface - Signalling flows  
and message contents (3GPP TS 29.328 version 11.13.0  
Release 11)
- ETSI TS 129328 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - IP Multimedia (IM) Subsystem Sh interface - Signalling  
flows and message contents (3GPP TS 29.328 version 12.7.0  
Release 12)
- ETSI TS 129329 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Sh interface based on the Diameter protocol - Protocol  
details (3GPP TS 29.329 version 12.5.0 Release 12)
- ETSI TS 129332 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- Media Gateway Control Function (MGCF) - IM Media  
Gateway - Mn interface (3GPP TS 29.332 version 12.1.0 Release 12)
- ETSI TS 129333 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- Multimedia Resource Function Controller (MRFC)  
- Multimedia Resource Function Processor (MRFP) Mp  
interface - Stage 3 (3GPP TS 29.333 version 12.4.0 Release 12)
- ETSI TS 129334 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - IMS Application Level Gateway (IMS-ALG) - IMS  
Access Gateway (IMS-AGW) - Iq interface - Stage 3  
(3GPP TS 29.334 version 12.5.0 Release 12)

- ETSI TS 129336 V 12.3.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Home Subscriber Server (HSS) diameter interfaces  
for interworking with packet data networks and applications  
(3GPP TS 29.336 version 12.3.0 Release 12)
- ETSI TS 129337 V 12.4.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Diameter-based T4 Interface for communications  
with packet data networks and applications  
(3GPP TS 29.337 version 12.4.0 Release 12)
- ETSI TS 129338 V 11.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Diameter based protocols to support Short Message  
Service (SMS) capable Mobile Management Entities (MMEs)  
(3GPP TS 29.338 version 11.2.0 Release 11)
- ETSI TS 129338 V 12.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Diameter based protocols to support Short Message  
Service (SMS) capable Mobile Management Entities (MMEs)  
(3GPP TS 29.338 version 12.5.0 Release 12)
- ETSI TS 129343 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Proximity-services (ProSe) function to ProSe application  
server aspects (PC2) - Stage 3 (3GPP TS 29.343 version 12.1.0  
Release 12)
- ETSI TS 129344 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Proximity-services (ProSe) function to Home Subscriber  
Server (HSS) aspects - Stage 3 (3GPP TS 29.344 version 12.1.0  
Release 12)
- ETSI TS 129345 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Inter-Proximity-services (ProSe) function signalling aspects  
- Stage 3 (3GPP TS 29.345 version 12.1.0 Release 12)
- ETSI TS 129368 V 11.5.0:2015  
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 11.5.0 Release 11)
- ETSI TS 129368 V 12.3.0:2015  
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 12.3.0 Release 12)
- ETSI TS 129468 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Group Communication System Enablers for LTE (GCSE  
LTE) - MB2 reference point - Stage 3 (3GPP TS 29.468 version  
12.1.0 Release 12)
- ETSI TS 131101 V 8.3.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- UICC-terminal interface - Physical and logical characteristics  
(3GPP TS 31.101 version 8.3.0 Release 8)
- ETSI TS 131101 V 9.2.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- UICC-terminal interface - Physical and logical characteristics  
(3GPP TS 31.101 version 9.2.0 Release 9)
- ETSI TS 131101 V 10.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- UICC-terminal interface - Physical and logical characteristics  
(3GPP TS 31.101 version 10.1.0 Release 10)
- ETSI TS 131101 V 11.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- UICC-terminal interface - Physical and logical characteristics  
(3GPP TS 31.101 version 11.1.0 Release 11)
- ETSI TS 131101 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- UICC-terminal interface - Physical and logical characteristics  
(3GPP TS 31.101 version 12.1.0 Release 12)
- ETSI TS 131102 V 12.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Characteristics of the Universal Subscriber Identity Module  
(USIM) application (3GPP TS 31.102 version 12.6.0 Release 12)
- ETSI TS 131111 V 10.15.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Universal Subscriber Identity Module (USIM) Application  
Toolkit (USAT) (3GPP TS 31.111 version 10.15.0 Release 10)
- ETSI TS 131111 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Universal Subscriber Identity Module (USIM) Application  
Toolkit (USAT) (3GPP TS 31.111 version 11.11.0 Release 11)
- ETSI TS 131111 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Universal Subscriber Identity Module (USIM) Application  
Toolkit (USAT) (3GPP TS 31.111 version 12.6.0 Release 12)
- ETSI TS 131115 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System  
(UMTS) - LTE - Secured packet structure for (Universal)  
Subscriber Identity Module (USIM) Toolkit applications  
(3GPP TS 31.115 version 12.1.0 Release 12)
- ETSI TS 131121 V 11.6.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - UICC-terminal interface - Universal Subscriber  
Identity Module (USIM) application test specification  
(3GPP TS 31.121 version 11.6.0 Release 11)
- ETSI TS 131121 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - UICC-terminal interface - Universal Subscriber  
Identity Module (USIM) application test specification  
(3GPP TS 31.121 version 12.1.0 Release 12)
- ETSI TS 131124 V 11.8.0:2015  
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 11.8.0 Release 11)
- ETSI TS 131124 V 12.2.0:2015  
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 12.2.0 Release 12)
- ETSI TS 132103 V 11.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Integration  
Reference Point (IRP) overview and usage guide  
(3GPP TS 32.103 version 11.5.0 Release 11)
- ETSI TS 132103 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Integration  
Reference Point (IRP) overview and usage guide  
(3GPP TS 32.103 version 12.1.0 Release 12)
- ETSI TS 132111-1 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Fault  
Management - Part 1: 3G fault management requirements  
(3GPP TS 32.111-1 version 12.1.0 Release 12)
- ETSI TS 132111-2 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Fault Management  
- Part 2: Alarm Integration Reference Point (IRP): Information  
Service (IS) (3GPP TS 32.111-2 version 12.1.0 Release 12)
- ETSI TS 132111-6 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) -  
LTE - Telecommunication management - Fault Management -  
Part 6: Alarm Integration Reference Point (IRP): Solution Set  
(SS) definitions (3GPP TS 32.111-6 version 12.1.0 Release 12)

- ETSI TS 132130 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Network sharing - Concepts and requirements  
(3GPP TS 32.130 version 12.0.0 Release 12)
- ETSI TS 132240 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Charging architecture and principles  
(3GPP TS 32.240 version 12.6.0 Release 12)
- ETSI TS 132250 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Circuit Switched (CS) domain charging  
(3GPP TS 32.250 version 12.3.0 Release 12)
- ETSI TS 132251 V 12.8.0:2015  
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 12.8.0 Release 12)
- ETSI TS 132260 V 11.14.0:2015  
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 11.14.0 Release 11)
- ETSI TS 132260 V 12.6.0:2015  
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 12.6.0 Release 12)
- ETSI TS 132270 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Charging management  
- Multimedia Messaging Service (MMS) charging  
(3GPP TS 32.270 version 12.1.0 Release 12)
- ETSI TS 132271 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Location Services (LCS) charging  
(3GPP TS 32.271 version 12.1.0 Release 12)
- ETSI TS 132272 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Push-to-talk over Cellular (PoC) charging  
(3GPP TS 32.272 version 12.1.0 Release 12)
- ETSI TS 132273 V 12.1.0:2015  
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 12.1.0 Release 12)
- ETSI TS 132274 V 12.5.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Short Message Service (SMS) charging  
(3GPP TS 32.274 version 12.5.0 Release 12)
- ETSI TS 132275 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - MultiMedia Telephony (MMTel) charging  
(3GPP TS 32.275 version 12.2.0 Release 12)
- ETSI TS 132277 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Proximity-based Services (ProSe) charging  
(3GPP TS 32.277 version 12.0.0 Release 12)
- ETSI TS 132280 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Advice of Charge (AoC) service  
(3GPP TS 32.280 version 12.1.0 Release 12)
- ETSI TS 132295 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Charging  
management - Charging Data Record (CDR) transfer  
(3GPP TS 32.295 version 12.2.0 Release 12)
- ETSI TS 132296 V 12.3.0:2015  
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 12.3.0 Release 12)
- ETSI TS 132297 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE  
- Telecommunication management - Charging management  
- Charging Data Record (CDR) file format and transfer  
(3GPP TS 32.297 version 12.2.0 Release 12)
- ETSI TS 132298 V 9.20.0:2015  
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 9.20.0 Release 9)
- ETSI TS 132298 V 10.17.0:2015  
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 10.17.0 Release 10)
- ETSI TS 132298 V 11.12.0:2015  
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 11.12.0 Release 11)
- ETSI TS 132298 V 12.6.0:2015  
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 12.6.0 Release 12)
- ETSI TS 132299 V 9.19.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System  
(UMTS) - LTE - Telecommunication management  
- Charging management - Diameter charging applications  
(3GPP TS 32.299 version 9.19.0 Release 9)
- ETSI TS 132299 V 10.14.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System  
(UMTS) - LTE - Telecommunication management  
- Charging management - Diameter charging applications  
(3GPP TS 32.299 version 10.14.0 Release 10)
- ETSI TS 132299 V 11.14.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System  
(UMTS) - LTE - Telecommunication management  
- Charging management - Diameter charging applications  
(3GPP TS 32.299 version 11.14.0 Release 11)
- ETSI TS 132299 V 12.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System  
(UMTS) - LTE - Telecommunication management  
- Charging management - Diameter charging applications  
(3GPP TS 32.299 version 12.7.0 Release 12)
- ETSI TS 132300 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Configuration  
Management (CM) - Name convention for Managed Objects  
(3GPP TS 32.300 version 12.1.0 Release 12)

- ETSI TS 132421 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Subscriber and equipment trace - Trace concepts and requirements (3GPP TS 32.421 version 12.1.0 Release 12)
- ETSI TS 132422 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Subscriber and equipment trace - Trace control and configuration management (3GPP TS 32.422 version 12.4.0 Release 12)
- ETSI TS 132423 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Subscriber and equipment trace - Trace data definition and management (3GPP TS 32.423 version 12.1.0 Release 12)
- ETSI TS 132442 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - LTE - Telecommunication management - Trace Management Integration Reference Point (IRP) - Information Service (IS) (3GPP TS 32.442 version 12.1.0 Release 12)
- ETSI TS 132500 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Telecommunication management - Self-Organizing Networks (SON) - Concepts and requirements (3GPP TS 32.500 version 12.1.0 Release 12)
- ETSI TS 133102 V 8.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - 3G security - Security architecture (3GPP TS 33.102 version 8.7.0 Release 8)
- ETSI TS 133102 V 9.6.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - 3G security - Security architecture (3GPP TS 33.102 version 9.6.0 Release 9)
- ETSI TS 133102 V 10.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - 3G security - Security architecture (3GPP TS 33.102 version 10.2.0 Release 10)
- ETSI TS 133102 V 11.7.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - 3G security - Security architecture (3GPP TS 33.102 version 11.7.0 Release 11)
- ETSI TS 133102 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS) - 3G security - Security architecture (3GPP TS 33.102 version 12.2.0 Release 12)
- ETSI TS 133106 V 12.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - 3G security - Lawful interception requirements (3GPP TS 33.106 version 12.5.0 Release 12)
- ETSI TS 133107 V 12.9.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G security - Lawful interception architecture and functions (3GPP TS 33.107 version 12.9.0 Release 12)
- ETSI TS 133108 V 9.8.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G security - Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 9.8.0 Release 9)
- ETSI TS 133108 V 10.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G security - Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 10.6.0 Release 10)
- ETSI TS 133108 V 11.6.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G security - Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 11.6.0 Release 11)
- ETSI TS 133108 V 12.7.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G security - Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 12.7.0 Release 12)
- ETSI TS 133203 V 12.8.0:2015  
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 12.8.0 Release 12)
- ETSI TS 133246 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- 3G Security - Security of Multimedia Broadcast/Multicast Service (MBMS) (3GPP TS 33.246 version 12.2.0 Release 12)
- ETSI TS 133303 V 12.2.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Proximity-based Services (ProSe) - Security aspects (3GPP TS 33.303 version 12.2.0 Release 12)
- ETSI TS 133401 V 12.13.0:2015  
Digital cellular telecommunications system (Phase 2+)  
- Universal Mobile Telecommunications System (UMTS)  
- LTE - 3GPP System Architecture Evolution (SAE) - Security architecture (3GPP TS 33.401 version 12.13.0 Release 12)
- ETSI TS 133402 V 12.5.0:2015  
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 12.5.0 Release 12)
- ETSI TS 134108 V 11.12.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Common test environments for User Equipment (UE)  
- Conformance testing (3GPP TS 34.108 version 11.12.0 Release 11)
- ETSI TS 134121-2 V 11.5.0:2015  
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 11.5.0 Release 11)
- ETSI TS 134123-2 V 11.5.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- User Equipment (UE) conformance specification - Part 2: Implementation conformance statement (ICS) proforma specification (3GPP TS 34.123-2 version 11.5.0 Release 11)
- ETSI TS 134229-1 V 12.4.1:2015  
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 12.4.1 Release 12)
- ETSI TS 134229-2 V 12.3.0:2015  
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 12.3.0 Release 12)
- ETSI TS 134229-3 V 10.5.0:2015  
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 10.5.0 Release 10)
- ETSI TS 136101 V 8.26.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 8.26.0 Release 8)
- ETSI TS 136101 V 9.21.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 9.21.0 Release 9)

- ETSI TS 136104 V 11.11.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Base Station (BS) radio transmission and reception  
(3GPP TS 36.104 version 11.11.0 Release 11)
- ETSI TS 136104 V 12.6.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Base Station (BS) radio transmission and reception  
(3GPP TS 36.104 version 12.6.0 Release 12)
- ETSI TS 136106 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - FDD repeater radio transmission and reception  
(3GPP TS 36.106 version 12.1.0 Release 12)
- ETSI TS 136113 V 11.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Base Station (BS) and repeater ElectroMagnetic Compatibility  
(EMC) (3GPP TS 36.113 version 11.3.0 Release 11)
- ETSI TS 136113 V 12.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Base Station (BS) and repeater ElectroMagnetic Compatibility  
(EMC) (3GPP TS 36.113 version 12.3.0 Release 12)
- ETSI TS 136133 V 9.22.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Requirements for support of radio resource management  
(3GPP TS 36.133 version 9.22.0 Release 9)
- ETSI TS 136141 V 11.11.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Base Station (BS) conformance testing  
(3GPP TS 36.141 version 11.11.0 Release 11)
- ETSI TS 136141 V 12.6.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Base Station (BS) conformance testing  
(3GPP TS 36.141 version 12.6.0 Release 12)
- ETSI TS 136143 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- FDD repeater conformance testing (3GPP TS 36.143 version 12.1.0  
Release 12)
- ETSI TS 136171 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Requirements for Support of Assisted Global Navigation  
Satellite System (A-GNSS) (3GPP TS 36.171 version 12.1.0  
Release 12)
- ETSI TS 136201 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- LTE physical layer - General description (3GPP TS 36.201  
version 12.1.0 Release 12)
- ETSI TS 136211 V 12.4.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) - Physical  
channels and modulation (3GPP TS 36.211 version 12.4.0 Release 12)
- ETSI TS 136212 V 12.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) - Multiplexing  
and channel coding (3GPP TS 36.212 version 12.3.0 Release 12)
- ETSI TS 136213 V 12.4.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) - Physical  
layer procedures (3GPP TS 36.213 version 12.4.0 Release 12)
- ETSI TS 136214 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) - Physical  
layer - Measurements (3GPP TS 36.214 version 12.1.0 Release 12)
- ETSI TS 136300 V 10.12.0:2015  
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 10.12.0 Release 10)
- ETSI TS 136300 V 11.12.0:2015  
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 11.12.0 Release 11)
- ETSI TS 136300 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 136302 V 12.2.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Services provided by the physical layer  
(3GPP TS 36.302 version 12.2.0 Release 12)
- ETSI TS 136304 V 12.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - User Equipment (UE) procedures in idle mode  
(3GPP TS 36.304 version 12.3.0 Release 12)
- ETSI TS 136305 V 12.2.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network  
(E-UTRAN) - Stage 2 functional specification of  
User Equipment (UE) positioning in E-UTRAN  
(3GPP TS 36.305 version 12.2.0 Release 12)
- ETSI TS 136306 V 11.9.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - User Equipment (UE) radio access capabilities  
(3GPP TS 36.306 version 11.9.0 Release 11)
- ETSI TS 136306 V 12.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - User Equipment (UE) radio access capabilities  
(3GPP TS 36.306 version 12.3.0 Release 12)
- ETSI TS 136307 V 8.13.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 36.307 version 8.13.0 Release 8)
- ETSI TS 136307 V 9.14.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 36.307 version 9.14.0 Release 9)
- ETSI TS 136307 V 10.13.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 36.307 version 10.13.0 Release 10)
- ETSI TS 136307 V 11.10.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 36.307 version 11.10.0 Release 11)
- ETSI TS 136307 V 12.6.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 36.307 version 12.6.0 Release 12)
- ETSI TS 136321 V 12.4.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Medium Access Control (MAC) protocol specification  
(3GPP TS 36.321 version 12.4.0 Release 12)
- ETSI TS 136322 V 12.1.1:2015  
LTE - Evolved Universal Terrestrial Radio Access  
(E-UTRA) - Radio Link Control (RLC) protocol specification  
(3GPP TS 36.322 version 12.1.1 Release 12)
- ETSI TS 136323 V 12.2.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Packet Data Convergence Protocol (PDCP) specification  
(3GPP TS 36.323 version 12.2.0 Release 12)
- ETSI TS 136331 V 10.15.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Radio Resource Control (RRC) - Protocol specification  
(3GPP TS 36.331 version 10.15.0 Release 10)
- ETSI TS 136331 V 11.10.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Radio Resource Control (RRC) - Protocol specification  
(3GPP TS 36.331 version 11.10.0 Release 11)
- ETSI TS 136331 V 12.4.1:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA)  
- Radio Resource Control (RRC) - Protocol specification  
(3GPP TS 36.331 version 12.4.1 Release 12)
- ETSI TS 136355 V 12.3.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) -  
LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 12.3.0  
Release 12)

- ETSI TS 136401 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - Architecture description (3GPP TS 36.401 version 12.1.0 Release 12)
- ETSI TS 136410 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - S1 general aspects and principles (3GPP TS 36.410 version 12.1.0 Release 12)
- ETSI TS 136413 V 12.4.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - S1 Application Protocol (S1AP) (3GPP TS 36.413 version 12.4.0 Release 12)
- ETSI TS 136414 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - S1 data transport (3GPP TS 36.414 version 12.1.0 Release 12)
- ETSI TS 136420 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - X2 general aspects and principles (3GPP TS 36.420 version 12.1.0 Release 12)
- ETSI TS 136423 V 12.4.2:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - X2 Application Protocol (X2AP) (3GPP TS 36.423 version 12.4.2 Release 12)
- ETSI TS 136424 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - X2 data transport (3GPP TS 36.424 version 12.1.0 Release 12)
- ETSI TS 136443 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access Network (E-UTRAN) - M2 Application Protocol (M2AP) (3GPP TS 36.443 version 12.1.0 Release 12)
- ETSI TS 136455 V 12.1.0:2015  
LTE - Evolved Universal Terrestrial Radio Access (E-UTRA) - LTE Positioning Protocol A (LPPa) (3GPP TS 36.455 version 12.1.0 Release 12)
- ETSI TS 136521-2 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 136523-2 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TR 136903 V 12.4.0:2015  
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 12.4.0 Release 12)
- ETSI TS 137104 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 11.11.0 Release 11)
- ETSI TS 137104 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 12.6.0 Release 12)
- ETSI TS 137113 V 11.3.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) Electromagnetic Compatibility (EMC) (3GPP TS 37.113 version 11.3.0 Release 11)
- ETSI TS 137113 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) Electromagnetic Compatibility (EMC) (3GPP TS 37.113 version 12.3.0 Release 12)
- ETSI TS 137141 V 9.13.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 9.13.0 Release 9)
- ETSI TS 137141 V 10.14.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 10.14.0 Release 10)
- ETSI TS 137141 V 11.11.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 11.11.0 Release 11)
- ETSI TS 137141 V 12.6.0:2015  
Digital cellular telecommunications system (Phase 2+) - Universal Mobile Telecommunications System (UMTS) - LTE - E-UTRA, UTRA and GSM/EDGE - Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 12.6.0 Release 12)
- ETSI TS 137571-1 V 12.1.0:2015  
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 12.1.0 Release 12)
- ETSI TS 137571-2 V 10.9.0:2015  
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 10.9.0 Release 10)
- ETSI TS 137571-2 V 11.0.0:2015  
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 11.0.0 Release 11)
- ETSI TS 137571-2 V 12.0.0:2015  
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 12.0.0 Release 12)
- ETSI TS 137571-3 V 12.1.0:2015  
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 12.1.0 Release 12)
- ETSI TS 137571-4 V 10.8.0:2015  
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 10.8.0 Release 10)
- ETSI TS 137571-5 V 10.10.0:2015  
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 10.10.0 Release 10)

- ETSI TS 137571-5 V 11.0.0:2015  
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 11.0.0 Release 11)
- ETSI TS 137571-5 V 12.0.0:2015  
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 12.0.0 Release 12)
- ETSI TR 137901 V 11.13.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 11.13.0 Release 11)
- ETSI TR 137902 V 12.1.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Measurements of User Equipment (UE) radio performances for LTE/UMTS terminals - Total Radiated Power (TRP) and Total Radiated Sensitivity (TRS) test methodology (3GPP TR 37.902 version 12.1.0 Release 12)
- ETSI TS 144018 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+) - Mobile radio interface layer 3 specification - Radio Resource Control (RRC) protocol (3GPP TS 44.018 version 12.4.0 Release 12)
- ETSI TS 144060 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+) - General Packet Radio Service (GPRS) - Mobile Station (MS) - Base Station System (BSS) interface - Radio Link Control / Medium Access Control (RLC/MAC) protocol (3GPP TS 44.060 version 12.3.0 Release 12)
- ETSI TS 145001 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+) - Physical layer on the radio path - General description (3GPP TS 45.001 version 12.1.0 Release 12)
- ETSI TS 145002 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+) - Multiplexing and multiple access on the radio path (3GPP TS 45.002 version 12.3.0 Release 12)
- ETSI TS 145005 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+) - Radio transmission and reception (3GPP TS 45.005 version 12.4.0 Release 12)
- ETSI TS 145008 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+) - Radio subsystem link control (3GPP TS 45.008 version 12.4.0 Release 12)
- ETSI TS 145009 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+) - Link adaptation (3GPP TS 45.009 version 12.1.0 Release 12)
- ETSI TR 145050 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+) - Background for Radio Frequency (RF) requirements (3GPP TR 45.050 version 12.1.0 Release 12)
- ETSI TS 148008 V 10.10.0:2015  
Digital cellular telecommunications system (Phase 2+) - Mobile Switching Centre - Base Station system (MSC-BSS) interface - Layer 3 specification (3GPP TS 48.008 version 10.10.0 Release 10)
- ETSI TS 148008 V 11.9.0:2015  
Digital cellular telecommunications system (Phase 2+) - Mobile Switching Centre - Base Station system (MSC-BSS) interface - Layer 3 specification (3GPP TS 48.008 version 11.9.0 Release 11)
- ETSI TS 148008 V 12.1.0:2015  
Digital cellular telecommunications system (Phase 2+) - Mobile Switching Centre - Base Station system (MSC-BSS) interface - Layer 3 specification (3GPP TS 48.008 version 12.1.0 Release 12)
- ETSI TS 148018 V 10.12.0:2015  
Digital cellular telecommunications system (Phase 2+) - General Packet Radio Service (GPRS) - Base Station System (BSS) - Serving GPRS Support Node (SGSN) - BSS GPRS protocol (BSSGP) (3GPP TS 48.018 version 10.12.0 Release 10)
- ETSI TS 148018 V 11.8.0:2015  
Digital cellular telecommunications system (Phase 2+) - General Packet Radio Service (GPRS) - Base Station System (BSS) - Serving GPRS Support Node (SGSN) - BSS GPRS protocol (BSSGP) (3GPP TS 48.018 version 11.8.0 Release 11)
- ETSI TS 148018 V 12.4.0:2015  
Digital cellular telecommunications system (Phase 2+) - General Packet Radio Service (GPRS) - Base Station System (BSS) - Serving GPRS Support Node (SGSN) - BSS GPRS protocol (BSSGP) (3GPP TS 48.018 version 12.4.0 Release 12)
- ETSI TS 151010-2 V 12.3.0:2015  
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 12.3.0 Release 12)
- ETSI TS 151010-4 V 12.2.0:2015  
Digital cellular telecommunications system (Phase 2+) - Mobile Station (MS) conformance specification - Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (3GPP TS 51.010-4 version 12.2.0 Release 12)
- ETSI TS 151010-5 V 10.11.0:2015  
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 10.11.0 Release 10)
- ETSI TS 151010-7 V 12.2.0:2015  
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 12.2.0 Release 12)
- ETSI TS 151021 V 12.3.0:2015  
Digital cellular telecommunications system (Phase 2+) - Base Station System (BSS) equipment specification - Radio aspects (3GPP TS 51.021 version 12.3.0 Release 12)

### 33.070.99 Ostale pokretne službe

#### Europska normizacija ETSI

- ETSI TR 102022-2 V 1.1.1:2015  
User Requirements Specification - Mission Critical Broadband Communications - Part 2: Critical Communications Application
- ETSI TS 124103 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Telepresence using the IP Multimedia (IM) Core Network (CN) Subsystem (IMS) - Stage 3 (3GPP TS 24.103 version 12.0.0 Release 12)
- ETSI TS 124371 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Web Real-Time Communications (WebRTC) client access to the IP Multimedia (IM) Core Network (CN) subsystem - Protocol specification (3GPP TS 24.371 version 12.0.0 Release 12)
- ETSI TR 124969 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Business Trunking - NGCN-NGN Interfaces Implementation Guide (3GPP TR 24.969 version 12.0.0 Release 12)
- ETSI TS 126443 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Codec for Enhanced Voice Services (EVS) - ANSI C code (floating-point) (3GPP TS 26.443 version 12.0.0 Release 12)
- ETSI TR 126952 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE - Codec for Enhanced Voice Services (EVS) - Performance characterization (3GPP TR 26.952 version 12.0.0 Release 12)



ETSI TR 135934 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS) - LTE  
- Report on the design and evaluation of the Tuak algorithm set:  
A second example algorithm set for the 3GPP authentication  
and key generation functions (3GPP TR 35.934 version 12.0.0  
Release 12)

ETSI TR 135935 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Performance evaluation of the Tuak algorithm set  
(3GPP TR 35.935 version 12.0.0 Release 12)

ETSI TR 135936 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - Security assessment of the Tuak algorithm set  
(3GPP TR 35.936 version 12.0.0 Release 12)

ETSI TS 136112 V 11.1.0:2015  
LTE - Location Measurement Unit (LMU) conformance  
specification - Network based positioning systems in Evolved  
Universal Terrestrial Radio Access Network (E-UTRAN)  
(3GPP TS 36.112 version 11.1.0 Release 11)

ETSI TS 136112 V 12.1.0:2015  
LTE - Location Measurement Unit (LMU) conformance  
specification - Network based positioning systems in Evolved  
Universal Terrestrial Radio Access Network (E-UTRAN)  
(3GPP TS 36.112 version 12.1.0 Release 12)

ETSI TS 136425 V 12.0.0:2015  
Universal Mobile Telecommunications System (UMTS)  
- LTE - E-UTRAN X2 interface user plane protocol  
(3GPP TS 36.425 version 12.0.0 Release 12)

ETSI TR 136904 V 11.2.0:2015  
LTE - Evolved Universal Terrestrial Radio Access  
Network (E-UTRAN) and Evolved Universal Terrestrial Radio Access  
Network (E-UTRAN) - Derivation of test tolerances for  
User Equipment (UE) radio reception conformance tests  
(3GPP TR 36.904 version 11.2.0 Release 11)

### **33.100.01 Elektromagnetska kompatibilnost općenito**

#### **Europska normizacija CENELEC**

EN 50561-1:2013/AC:2014  
Power line communication apparatus used in low-voltage  
installations - Radio disturbance characteristics - Limits and  
methods of measurement - Part 1: Apparatus for in-home  
use

EN 50561-1/AC:2015  
Power line communication apparatus used in low-voltage  
installations - Radio disturbance characteristics - Limits and  
methods of measurement - Part 1: Apparatus for in-home  
use

#### **Međunarodna normizacija IEC**

CISPR 16-1-5:2014  
Specification for radio disturbance and immunity measuring  
apparatus and methods - Part 1-5: Radio disturbance and  
immunity measuring apparatus - Antenna calibration sites and  
reference test sites for 5 MHz to 18 GHz

CISPR 16-1-6:2014  
Specification for radio disturbance and immunity measuring  
apparatus and methods - Part 1-6: Radio disturbance and  
immunity measuring apparatus - EMC antenna calibration

### **33.120.40 Antene**

#### **Europska normizacija ETSI**

EN 302217-2-1 V 2.1.1:2014  
Fixed Radio Systems - Characteristics and requirements for  
point-to-point equipment and antennas - Part 2-1: System-  
dependent requirements for digital systems operating in  
frequency bands where frequency co-ordination is applied

### **33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito**

#### **Europska normizacija CENELEC**

EN 60065:2014  
Audio, video and similar electronic apparatus - Safety-  
requirements (IEC 60065:2014, modified)

#### **Međunarodna normizacija IEC**

CISPR 13 AMD 1:2015  
Sound and television broadcast receivers and associated  
equipment - Radio disturbance characteristics - Limits and  
methods of measurement

CISPR 13 Edition 5.1:2015  
Sound and television broadcast receivers and associated  
equipment - Radio disturbance characteristics - Limits and  
methods of measurement

### **33.170 Televizijski i radijski prijenos**

#### **Europska normizacija ETSI**

ETSI TS 102034 V 1.5.2:2014  
Digital Video Broadcasting (DVB) - Transport of MPEG-2 TS  
Based DVB Services over IP Based Networks

ETSI TS 101499 V 3.1.1:2015  
Hybrid Digital Radio (DAB, DRM, RadioDNS) - SlideShow  
- User Application Specification

ETSI TS 102371 V 3.1.1:2015  
Digital Audio Broadcasting (DAB) - Digital Radio Mondiale  
(DRM) - Transportation and Binary Encoding Specification for  
Service and Programme Information (SPI)

ETSI TS 102818 V 3.1.1:2015  
Hybrid Digital Radio (DAB, DRM, RadioDNS) - XML  
Specification for Service and Programme Information (SPI)

ETSI TS 103270 V 1.1.1:2015  
RadioDNS Hybrid Radio - Hybrid lookup for radio services

### **33.180.10 Svjetlovodna vlakna i kabeli**

#### **Europska normizacija CENELEC**

EN 60794-4-10:2014  
Optical fibre cables - Part 4-10: Family Specification  
- OPGW (Optical Ground Wires) along electrical power lines  
(IEC 60794-4-10:2014)

EN 60793-1-50:2015  
Optical fibres - Part 1-50: Measurement methods - Damp heat  
(steady state) tests (IEC 60793-1-50:2014)

EN 60794-3:2015  
Optical fibre cables - Part 3: Sectional specification - Outdoor  
cables (IEC 60794-3:2014)

#### **Međunarodna normizacija IEC**

IEC 60794-3-10:2015  
Optical fibre cables - Part 3-10: Outdoor cables - Family  
specification for duct, directly buried or lashed aerial optical  
telecommunication cables

### **33.180.20 Svjetlovodni vezne naprave**

#### **Europska normizacija CENELEC**

EN 61300-3-14:2014  
Fibre optic interconnecting devices and passive components  
- Basic test and measurement procedures - Part 3-14:  
Examinations and measurements - Error and repeatability  
of the attenuation settings of a variable optical attenuator  
(IEC 61300-3-14:2014)

EN 50411-2-10:2015

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications - Part 2-10: Sealed fibre splice closures type 2, category G, for FTTH optical distribution networks

### Međunarodna normizacija IEC

IEC 61753-031-3:2014

Fibre optic interconnecting devices and passive components - Performance standard - Part 031-3: Non-connectorized single-mode 1×N and 2×N non-wavelength-selective branching devices for Category U - Uncontrolled environment

IEC 61300-2-50 Corrigendum 1:2015

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 61300-2-51 Corrigendum 1:2015

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 61300-3-50 Corrigendum 1:2015

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-50: Examinations and measurements - Crosstalk for optical spatial switches

IEC 61755-2-4:2015

Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 2-4: Connection parameters of non-dispersion shifted single-mode physically contacting fibres - Non-angled for reference connection applications

IEC 61755-2-5:2015

Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 2-5: Connection parameters of non-dispersion shifted single-mode physically contacting fibres - Angled for reference connection applications

## 33.180.30 Optička pojačala

### Europska normizacija CENELEC

EN 62148-18:2015

Fibre optic active components and devices - Package and interface standards - Part 18: 40-Gbit/s serial transmitter and receiver components for use with the LC connector interface (IEC 62148-18:2014)

### Međunarodna normizacija IEC

IEC 61290-1:2014

Optical amplifiers - Test methods - Part 1: Optical power and gain parameters

## 33.200 Daljinsko upravljanje. Daljinsko mjerenje

### Europska normizacija CENELEC

EN 62351-3:2014

Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP (IEC 62351-3:2014)

### ETSI

ETSI TS 103315 V 1.1.1:2015

SmartM2M - Machine-to-Machine communications (M2M) - Interoperability Test Specification for ETSI M2M Primitives

## 35.040 Skupovi znakova i kodiranje informacija

### Europska normizacija CENELEC

EN 62351-3:2014

Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP (IEC 62351-3:2014)

### Međunarodna normizacija ISO

IWA 17:2014

Information and operations security and integrity requirements for lottery and gaming organizations

ISO/IEC 19763-10:2014

Information technology - Metamodel framework for interoperability (MFI) - Part 10: Core model and basic mapping

ISO/IEC 27040:2015

Information technology - Security techniques - Storage security

### IEC

ISO/IEC 19763-10:2014

Information technology - Metamodel framework for interoperability (MFI) - Part 10: Core model and basic mapping

ISO/IEC 27040:2015

Information technology - Security techniques - Storage security

## 35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji

### Međunarodna normizacija ISO/IEC

ISO/IEC TR 14369:2014

Information technology - Programming languages, their environments and system software interfaces - Guidelines for the preparation of Language-Independent Service Specifications (LISS)

ISO/IEC 14882:2014

Information technology - Programming languages - C++

## 35.080 Softver (programaska podrška)

### Europska normizacija CEN

EN 9320:2014

Aerospace series - Programme Management - General guidelines for acquisition and supply of open systems

### Međunarodna normizacija ISO/IEC

ISO/IEC 90003:2014

Software engineering - Guidelines for the application of ISO 9001:2008 to computer software

## 35.100.30 Mrežni sloj

### Međunarodna normizacija ISO/IEC

ISO/IEC TR 29181-2:2014

Information technology - Future Network - Problem statement and requirements - Part 2: Naming and addressing

ISO/IEC TR 29181-5:2014

Information technology - Future Network - Problem statement and requirements - Part 5: Security

## 35.110 Umrežavanje

### Europska normizacija ETSI

- ETSI GS NFV-INF 003 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - Infrastructure - Compute Domain
- ETSI GS NFV-INF 005 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - Infrastructure - Network Domain
- ETSI GS NFV-INF 010 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - Service Quality Metrics
- ETSI GS NFV-MAN 001 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - Management and Orchestration
- ETSI GS NFV-PER 001 V 1.1.2:2014  
Network Functions Virtualisation (NFV) - NFV Performance & Portability Best Practises
- ETSI GS NFV-PER 002 V 1.1.2:2014  
Network Functions Virtualisation (NFV) - Proofs of Concept - Framework
- ETSI GS NFV-SEC 003 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - NFV Security - Security and Trust Guidance
- ETSI GS NFV-SWA 001 V 1.1.1:2014  
Network Functions Virtualisation (NFV) - Virtual Network Functions Architecture
- ETSI GS NFV 002 V 1.2.1:2014  
Network Functions Virtualisation (NFV) - Architectural Framework
- ETSI GS NFV 003 V 1.2.1:2014  
Network Functions Virtualisation (NFV) - Terminology for Main Concepts in NFV
- ETSI TS 103238-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma
- ETSI TS 103238-2 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 103238-3 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for NAT64 technology - Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)
- ETSI TS 103239-1 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Testing - Conformance test specifications for MAP-E technology - Part 1: Protocol Implementation Conformance Statement (PICS) proforma
- ETSI ES 203259 V 1.1.1:2015  
Integrated broadband cable telecommunication networks (CABLE) - Converged Cable Access Platform - Operational Support System Interface
- ETSI GS NFV-INF 001 V 1.1.1:2015  
Network Functions Virtualisation (NFV) - Infrastructure Overview
- ETSI GS NFV-INF 004 V 1.1.1:2015  
Network Functions Virtualisation (NFV) - Infrastructure - Hypervisor Domain
- ETSI GS NFV-REL 001 V 1.1.1:2015  
Network Functions Virtualisation (NFV) - Resiliency Requirements

### Međunarodna normizacija IEC

- IEC/TR 80001-2-5:2014  
Application of risk management for IT-networks incorporating medical devices - Part 2-5: Application guidance - Guidance on distributed alarm systems

## 35.160 Mikroprocesorski sustavi

### Međunarodna normizacija ISO/IEC

- ISO/IEC 19395:2015  
Information technology - Sustainability for and by information technology - Smart data centre resource monitoring and control

## 35.200 Sučelna i spojna oprema

### Međunarodna normizacija ISO/IEC

- ISO/IEC 24775-5:2014  
Information technology - Storage management - Part 5: File systems
- ISO/IEC 24775-6:2014  
Information technology - Storage management - Part 6: Fabric
- ISO/IEC 24775-7:2014  
Information technology - Storage management - Part 7: Host Elements
- ISO/IEC 24775-8:2014  
Information technology - Storage management - Part 8: Media Libraries

## 35.240.15 Identifikacijske kartice i pripadajuće naprave

### Europska normizacija ETSI

- EN 419212-1:2014  
Application Interface for smart cards used as Secure Signature Creation Devices - Part 1: Basic services
- EN 419212-2:2014  
Application Interface for smart cards used as Secure Signature Creation Devices - Part 2: Additional services
- ETSI TS 102221 V 12.0.0:2014  
Smart Cards - UICC-Terminal interface - Physical and logical characteristics (Release 12)

### Međunarodna normizacija ISO/IEC

- ISO/IEC 7811-8:2014  
Identification cards - Recording technique - Part 8: Magnetic stripe - Coercivity of 51,7 kA/m (650 Oe)
- ISO/IEC 10373-2:2015  
Identification cards - Test methods - Part 2: Cards with magnetic stripes

## 35.240.20 Primjene IT-a u uredskom poslovanju

### Međunarodna normizacija ISO/IEC

- ISO/IEC 24752-1:2014  
Information technology - User interfaces - Universal remote console - Part 1: General framework
- ISO/IEC 24752-2:2014  
Information technology - User interfaces - Universal remote console - Part 2: User interface socket description

ISO/IEC 24752-4:2014  
Information technology - User interfaces - Universal remote console - Part 4: Target description

ISO/IEC 24752-5:2014  
Information technology - User interfaces - Universal remote console - Part 5: Resource description

ISO/IEC 24752-6:2014  
Information technology - User interfaces - Universal remote console - Part 6: Web service integration

### **35.240.30 Primjene IT-a u obavješćivanju, dokumentaciji i izdavaštvu**

#### **Međunarodna normizacija ISO**

ISO 14289-1:2014  
Document management applications - Electronic document file format enhancement for accessibility - Part 1: Use of ISO 32000-1 (PDF/UA-1)

ISO 14739-1:2014  
Document management - 3D use of Product Representation Compact (PRC) format - Part 1: PRC 10001

ISO 16684-2:2014  
Graphic technology - Extensible metadata platform (XMP) - Part 2: Description of XMP schemas using RELAX NG

ISO 16760:2014  
Graphic technology - Prepress data exchange - Preparation and visualization of RGB images to be used in RGB-based graphics arts workflows

ISO/IEC 19395:2015  
Information technology - Sustainability for and by information technology - Smart data centre resource monitoring and control

#### **IEC**

ISO/IEC 19395:2015  
Information technology - Sustainability for and by information technology - Smart data centre resource monitoring and control

### **35.240.40 Primjene IT-a u bankarstvu**

#### **Međunarodna normizacija ISO**

ISO 9362:2014  
Banking - Banking telecommunication messages - Business identifier code (BIC)

### **35.240.50 Primjene IT-a u industriji**

#### **Međunarodna normizacija ISO**

ISO 10303-41:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 41: Integrated generic resource: Fundamentals of product description and support

ISO 10303-42:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 42: Integrated generic resource: Geometric and topological representation

ISO 10303-44:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 44: Integrated generic resource: Product structure configuration

ISO 10303-45:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 45: Integrated generic resource: Material and other engineering properties

ISO 10303-47:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 47: Integrated generic resource: Shape variation tolerances

ISO 10303-50 Technical Corrigendum 2:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 50: Integrated generic resource: Mathematical constructs; Technical Corrigendum 2

ISO 10303-52 Technical Corrigendum 1:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 52: Integrated generic resource: Mesh-based topology; Technical Corrigendum 1

ISO 10303-59:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 59: Integrated generic resource - Quality of product shape data

ISO 10303-101:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 101: Integrated application resource: Draughting

ISO 10303-104 Technical Corrigendum 2:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 104: Integrated application resource: Finite element analysis; Technical Corrigendum 2

ISO 10303-105:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 105: Integrated application resource: Kinematics

ISO 10303-108 Technical Corrigendum 2:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 108: Integrated application resource: Parameterization and constraints for explicit geometric product models; Technical Corrigendum 2

ISO 10303-109 Technical Corrigendum 2:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 109: Integrated application resource: Kinematic and geometric constraints for assembly models; Technical Corrigendum 2

ISO 10303-111 Technical Corrigendum 2:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 111: Integrated application resource: Elements for the procedural modelling of solid shapes; Technical Corrigendum 2

ISO 10303-209:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 209: Application protocol: Multidisciplinary analysis and design

ISO 10303-210:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 210: Application protocol: Electronic assembly, interconnect and packaging design

ISO 10303-242:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 242: Application protocol: Managed model-based 3D engineering

ISO 10303-518:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 518: Application interpreted construct: Mechanical design shaded presentation

ISO 10303-522:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 522: Application interpreted construct: Machining features

ISO 10303-1819:2014  
Industrial automation systems and integration - Product data representation and exchange - Part 1819: Application module: Tessellated geometry

ISO 13584-20 Technical Corrigendum 1:2014  
Industrial automation systems and integration - Parts library - Part 20: Logical resource: Logical model of expressions; Technical Corrigendum 1

## 35.240.60 Primjene IT-a u prijevozu i trgovini

### Europska normizacija ETSI

EN 302636-3 V 1.2.1:2014  
Intelligent Transport Systems (ITS) - Vehicular Communications  
- GeoNetworking - Part 3: Network Architecture

### Međunarodna normizacija ISO

ISO 9735-10:2014  
Electronic data interchange for administration, commerce and transport (EDIFACT) - Application level syntax rules (Syntax version number: 4, Syntax release number: 2) - Part 10: Syntax service directories

ISO 17572-1:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 1: General requirements and conceptual model

ISO 17572-2:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 2: Pre-coded location references (pre-coded profile)

ISO 17572-3:2015  
Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 3: Dynamic location references (dynamic profile)

## 35.240.80 Primjene IT-a u tehnologiji zaštite zdravlja

### Međunarodna normizacija ISO

ISO/TR 28380-3:2014  
Health informatics - IHE global standards adoption - Part 3: Deployment

### IEC

IEC/TR 80001-2-5:2014  
Application of risk management for IT-networks incorporating medical devices - Part 2-5: Application guidance - Guidance on distributed alarm systems

## 35.240.99 Primjene IT-a u ostalim područjima

### Europska normizacija CEN

EN 14908-6:2014  
Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 6: Application elements

### CENELEC

EN 62386-101:2014  
Digital addressable lighting interface - Part 101: General requirements - System components (IEC 62386-101:2014)

EN 62386-102:2014  
Digital addressable lighting interface - Part 102: General requirements - Control gear (IEC 62386-102:2014)

EN 62386-103:2014  
Digital addressable lighting interface - Part 103: General requirements - Control devices (IEC 62386-103:2014)

## 37.020 Optička oprema

### Međunarodna normizacija ISO

ISO 8039:2014  
Microscopes - Values, tolerances and symbols for magnification

## 37.040.99 Ostale norme koje se odnose na fotografiju

### Međunarodna normizacija ISO

ISO 18943:2014  
Imaging materials - Magnetic hard drives used for image storage - Care and handling

## 37.080 Primjene u preslikavanju dokumenata

### Međunarodna normizacija ISO

ISO 12651-2:2014  
Electronic document management - Vocabulary - Part 2: Workflow management

## 37.100.01 Grafička tehnologija općenito

### Međunarodna normizacija ISO

ISO 12647-5:2015  
Graphic technology - Process control for the manufacture of half-tone colour separations, proof and production prints - Part 5: Screen printing

## 37.100.10 Oprema za umnožavanje

### Međunarodna normizacija ISO

ISO 15341:2014  
Graphic technology - Method for radius determination of printing cylinders

## 37.100.99 Ostale norme koje se odnose na grafičku tehnologiju

### Međunarodna normizacija ISO

ISO 14289-1:2014  
Document management applications - Electronic document file format enhancement for accessibility - Part 1: Use of ISO 32000-1 (PDF/UA-1)

ISO 16684-2:2014  
Graphic technology - Extensible metadata platform (XMP) - Part 2: Description of XMP schemas using RELAX NG

ISO 16760:2014  
Graphic technology - Prepress data exchange - Preparation and visualization of RGB images to be used in RGB-based graphics arts workflows

## 39.060 Nakit

### Međunarodna normizacija ISO

ISO 11426:2014  
Jewellery - Determination of gold in gold jewellery alloys - Cupellation method (fire assay)

ISO 15096:2014  
Jewellery - Determination of silver in 999 ‰ silver jewellery alloys - Difference method using ICP-OES

ISO 11490:2015  
Jewellery - Determination of palladium in palladium jewellery alloys - Gravimetric determination with dimethylglyoxime

ISO 13756:2015  
Jewellery - Determination of silver in silver jewellery alloys - Volumetric (potentiometric) method using sodium chloride or potassium chloride

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija ISO

ISO 362-1:2015  
Measurement of noise emitted by accelerating road vehicles  
- Engineering method - Part 1: M and N categories

## 43.040.10 Električna i elektronička oprema

### Europska normizacija CENELEC

EN 62196-3:2014  
Plugs, socket-outlets, vehicle connectors and vehicle inlets  
- Conductive charging of electric vehicles - Part 3: Dimensional  
compatibility and interchangeability requirements for  
d.c. and a.c./d.c. pin and contact-tube vehicle couplers  
(IEC 62196-3:2014)

### Međunarodna normizacija ISO

ISO 8820-1:2014  
Road vehicles - Fuse-links - Part 1: Definitions and general  
test requirements

## 43.040.20 Uređaji za osvjetljivanje, svjetlosnu signalizaciju i upozoravanje

### Međunarodna normizacija IEC

IEC 60809:2014  
Lamps for road vehicles - Dimensional, electrical and luminous  
requirements

IEC 60810:2014  
Lamps for road vehicles - Performance requirements

## 43.040.30 Pokazni i upravljački uređaji

### Međunarodna normizacija ISO

ISO 16844-4:2015  
Road vehicles - Tachograph systems - Part 4: CAN interface

ISO 16844-6:2015  
Road vehicles - Tachograph systems - Part 6: Diagnostics

ISO 16844-7:2015  
Road vehicles - Tachograph systems - Part 7: Parameters

## 43.100 Osobna vozila. Kamp-prikolice i lake prikolice

### Europska normizacija CEN

EN 16230-1+A1:2014  
Leisure karts - Part 1: Safety requirements and test methods  
for karts

## 43.120 Električna cestovna vozila

### Europska normizacija CENELEC

EN 62196-3:2014  
Plugs, socket-outlets, vehicle connectors and vehicle inlets  
- Conductive charging of electric vehicles - Part 3: Dimensional  
compatibility and interchangeability requirements for  
d.c. and a.c./d.c. pin and contact-tube vehicle couplers  
(IEC 62196-3:2014)

## 43.140 Motocikli i mopedi

### Međunarodna normizacija ISO

ISO 6460-2:2014  
Motorcycles - Measurement method for gaseous exhaust  
emissions and fuel consumption - Part 2: Test cycles and  
specific test conditions

## 45.040 Materijali i sastavni dijelovi za željezničku tehniku

### Europska normizacija CEN

EN 16185-1:2014  
Railway applications - Braking systems of multiple unit trains  
- Part 1: Requirements and definitions

EN 16185-2:2014  
Railway applications - Braking systems of multiple unit trains  
- Part 2: Test methods

## 45.060.01 Željeznička tračnička vozila općenito

### Europska normizacija CENELEC

EN 61287-1:2014/AC:2014  
Railway applications - Power converters installed on board  
rolling stock - Part 1: Characteristics and test methods

## 45.060.10 Vučna vozila

### Europska normizacija CEN

EN 16186-1:2014  
Railway applications - Driver's cab - Part 1: Anthropometric  
data and visibility

## 45.100 Oprema za žičare

### Europska normizacija CEN

EN 12929-1:2015  
Safety requirements for cableway installations designed to  
carry persons - General requirements - Part 1: Requirements  
for all installations

EN 12929-2:2015  
Safety requirements for cableway installations designed to  
carry persons - General requirements - Part 2: Additional  
requirements for reversible bicable aerial ropeways without  
carrier truck brakes

EN 12930:2015  
Safety requirements for cableway installations designed to  
carry persons - Calculations

EN 13243:2015  
Safety requirements for cableway installations designed  
to carry persons - Electrical equipment other than for drive  
systems

## 47.020.20 Brodski motori i propulzijski sustavi

### Međunarodna normizacija ISO

ISO 21487 AMD 1:2014  
Small craft - Permanently installed petrol and diesel fuel  
tanks; Amendment 1

ISO 25197 AMD 1:2014  
Small craft - Electrical/electronic control systems for steering, shift and throttle; Amendment 1

## **47.020.60 Električna oprema brodova i pomorskih konstrukcija**

### **Europska normizacija CEN**

EN ISO 13297:2014  
Small craft - Electrical systems - Alternating current installations (ISO 13297:2014)

### **CENELEC**

EN 60092-507:2015  
Electrical installations in ships - Part 507 - Small vessels (IEC 60092-507:2014)

### **Međunarodna normizacija ISO**

ISO 13297:2014  
Small craft - Electrical systems - Alternating current installations

ISO 25197 AMD 1:2014  
Small craft - Electrical/electronic control systems for steering, shift and throttle; Amendment 1

### **IEC**

IEC 61892-7:2014  
Mobile and fixed offshore units - Electrical installations - Part 7: Hazardous areas

## **47.020.70 Oprema za navigaciju i upravljanje**

### **Međunarodna normizacija ISO**

ISO/PAS 19697:2014  
Ships and marine technology - Navigation and ship operations - Electronic inclinometers

### **IEC**

IEC 62320-1:2015  
Maritime navigation and radiocommunication equipment and systems - Automatic identification system (AIS) - Part 1: AIS Base Stations - Minimum operational and performance requirements, methods of testing and required test results

IEC 62320-3:2015  
Maritime navigation and radiocommunication equipment and systems - Automatic identification systems (AIS) - Part 3: Repeater station - Minimum operational and performance requirements - Methods of test and required test results

## **47.040 Morska plovila**

### **Međunarodna normizacija ISO**

ISO 14884:2015  
Large yachts - Weathertight doors - Strength and weathertightness requirements

## **47.080 Mala plovila**

### **Europska normizacija CEN**

EN ISO 13297:2014  
Small craft - Electrical systems - Alternating current installations (ISO 13297:2014)

### **Međunarodna normizacija ISO**

ISO 10239:2014  
Small craft - Liquefied petroleum gas (LPG) systems

ISO 13297:2014  
Small craft - Electrical systems - Alternating current installations

ISO 21487 AMD 1:2014  
Small craft - Permanently installed petrol and diesel fuel tanks; Amendment 1

ISO 25197 AMD 1:2014  
Small craft - Electrical/electronic control systems for steering, shift and throttle; Amendment 1

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

### **Europska normizacija CEN**

EN 9103:2014  
Aerospace series - Quality management systems - Variation management of key characteristics

EN 9320:2014  
Aerospace series - Programme Management - General guidelines for acquisition and supply of open systems

## **49.025.40 Guma i plastika**

### **Europska normizacija CEN**

EN 3825:2014  
Aerospace series - Fluorosilicone rubber (FVMQ) - Hardness 60 IRHD

EN 3826:2014  
Aerospace series - Fluorosilicone rubber (FVMQ) - Hardness 70 IRHD

EN 3827:2014  
Aerospace series - Fluorosilicone rubber (FVMQ) - Hardness 80 IRHD

## **49.040 Premazivanje i srodni procesi koji se upotrebljavaju u zrakoplovnoj industriji**

### **Europska normizacija CEN**

EN 4826:2014  
Aerospace series - Zinc-Nickel (12 % - 16 % Ni) plating of steels with specified tensile strength  $\leq$  1450 MPa, copper alloys, nickel alloys and aluminium alloys for parts and fasteners

EN 16602-70-13:2015  
Space product assurance - Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes

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

### **Europska normizacija CEN**

EN 2593-001:2014  
Aerospace series - Bases for 10 A electromagnetic plug-in relays, two and four poles double thrown - Part 001: Technical specification

EN 2997-009:2014  
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 009: Protective cover for receptacle - Product standard

EN 2997-010:2014

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 010: Protective cover for plug - Product standard

EN 3545-005:2014

Aerospace series - Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C - Part 005: Female coding and attachment System for mounting on free housing (plug) - Product standard

EN 3545-007:2014

Aerospace series - Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures -55 °C to 175 °C - Part 007: Cable clamp - Product standard

EN 3716-004:2014

Aerospace series - Connectors, single-way with triaxial interface for transmission of digital data - Part 004: Solder plug and terminator - Product standard

EN 4056-004:2014

Aerospace series - Cable ties for harnesses - Part 004: Plastic cable ties - For operating temperatures -55 °C to 105 °C and -55 °C to 150 °C - Product standard

EN 6049-005:2014

Aerospace series - Electrical cables, installation - Protection sleeve in meta-aramid fibres - Part 005: Sleeve flexible, post installation - Product standard

EN 6059-308:2014

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 308: Rapid change of temperature

EN 6059-502:2014

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 502: Resistance to electrical arcs

## Međunarodna normizacija

### IEC

IEC/PAS 62396-6:2014

Process management for avionics - Atmospheric radiation effects - Part 6: Extreme space weather and potential impact on the avionics environment and electronics

## 49.080 Hidraulični i pneumatski sustavi i sastavni dijelovi za zrakoplove

### Europska normizacija

#### CEN

EN 4550-1:2014

Aerospace series - Pipe coupling, 37° - Design configuration - Inch series - Part 1: Male sealing ends, spherical

EN 4550-4:2014

Aerospace series - Pipe coupling, 37° - Design configuration - Inch series - Part 4: Female sealing ends

## 49.090 Oprema i instrumenti u zrakoplovu

### Europska normizacija

#### CEN

EN 3716-004:2014

Aerospace series - Connectors, single-way with triaxial interface for transmission of digital data - Part 004: Solder plug and terminator - Product standard

EN 4701-001:2014

Aerospace series - Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts - Part 001: Technical specification

## Međunarodna normizacija

### IEC

IEC/PAS 62396-6:2014

Process management for avionics - Atmospheric radiation effects - Part 6: Extreme space weather and potential impact on the avionics environment and electronics

## 49.100 Zemaljska služba i oprema za održavanje

### Međunarodna normizacija

#### ISO

ISO 15845:2014

Aircraft ground equipment - Boarding vehicle for persons with reduced mobility - Functional and safety requirements

## 49.140 Svemirski sustavi i operacije

### Europska normizacija

#### CEN

EN 16601-00-01:2015

Space systems - Glossary of terms

EN 16601-10:2015

Space project management - Project planning and implementation

EN 16602-70-08:2015

Space product assurance - Manual soldering of high-reliability electrical connections

EN 16602-70-09:2015

Space product assurance - Measurements of thermo-optical properties of thermal control materials

EN 16602-70-10:2015

Space product assurance - Qualification of printed circuit boards

EN 16602-70-11:2015

Space product assurance - Procurement of printed circuit boards

EN 16602-70-13:2015

Space product assurance - Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes

EN 16602-70-50:2015

Space product assurance - Particles contamination monitoring for spacecraft systems and cleanrooms

EN 16602-70-53:2015

Space product assurance - Materials and hardware compatibility tests for sterilization processes

EN 16603-10-04:2015

Space engineering - Space environment

EN 16603-50-53:2015

Space engineering - SpaceWire - CCSDS packet transfer protocol

EN 16603-70:2015

Space engineering - Ground systems and operations

EN 16603-70-01:2015

Space engineering - On-board control procedures

EN 16603-70-11:2015

Space engineering - Space segment operability

EN 16603-70-31:2015

Space engineering - Ground systems and operations - Monitoring and control data definition



## 53.020.30 Pribor za opremu za dizanje

### Međunarodna normizacija ISO

ISO 16872:2015  
Round steel short link chains for lifting purposes - Fine tolerance hoist chains for hand operated chain hoists - Grade VH

ISO 16877:2015  
Round steel short link chains for lifting purposes - Fine tolerance hoist chains for hand operated chain hoists - Grade TH

## 53.060 Industrijski prijevozni sustavi

### Međunarodna normizacija ISO

ISO 22915-22:2014  
Industrial trucks - Verification of stability - Part 22: Lateral- and front-stacking trucks with and without elevating operator position

ISO 22915-12:2015  
Industrial trucks - Verification of stability - Part 12: Industrial variable-reach trucks handling freight containers of 6 m (20 ft) length and longer

## 55.020 Ambalaža, pakiranje i distribucija robe općenito

### Europska normizacija CEN

EN 16679:2014  
Packaging - Tamper verification features for medicinal product packaging

## 55.180.99 Ostale norme koje se odnose na distribuciju robe

### Europska normizacija CENELEC

EN 61340-4-4:2012/A1:2015  
Electrostatics - Part 4-4: Standard test methods for specific applications - Electrostatic classification of flexible intermediate bulk containers (FIBC) (IEC 61340-4-4:2012/A1:2014)

### Međunarodna normizacija ISO

IWA 16:2015  
International harmonized method(s) for a coherent quantification of CO<sub>2</sub>e emissions of freight transport

## 59.080.01 Tekstili općenito

### Međunarodna normizacija ISO

ISO 17617:2014  
Textiles - Determination of moisture drying rate

ISO 17299-4:2015  
Textiles - Determination of deodorant property - Part 4: Condensation sampling analysis

## 59.080.30 Tekstilni proizvodi

### Međunarodna normizacija ISO

ISO 675:2014  
Textiles - Woven fabrics - Determination of dimensional change on commercial laundering near the boiling point

## 59.080.60 Tekstilne podne obloge

### Europska normizacija CEN

EN 14159:2014  
Textile floor coverings - Requirements for tolerances on (linear) dimensions of rugs, runners, carpet tiles and wall-to-wall carpet and for tolerances on pattern repeat

### Međunarodna normizacija ISO

ISO/PAS 18167:2014  
Textile floor coverings - Installation practices - General

ISO 9405:2015  
Textile floor coverings - Assessment of changes in appearance

ISO 10361:2015  
Textile floor coverings - Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester

## 59.080.70 Geotekstili

### Europska normizacija CEN

EN ISO 13427:2014  
Geosynthetics - Abrasion damage simulation (sliding block test) (ISO 13427:2014)

### Međunarodna normizacija ISO

ISO 13427:2014  
Geosynthetics - Abrasion damage simulation (sliding block test)

## 61.020 Odjeća

### Europska normizacija CEN

EN 14682:2014  
Safety of children's clothing - Cords and drawstrings on children's clothing - Specifications

CEN/TR 16792:2014  
Safety of children's clothing - Recommendations for the design and manufacture of children's clothing - Mechanical safety

## 65.040.99 Ostale norme koje se odnose na gospodarske zgrade i instalacije

### Međunarodna normizacija ISO

ISO 24631-5:2014  
Radio frequency identification of animals - Part 5: Procedure for testing the capability of RFID transceivers of reading ISO 11784 and ISO 11785 transponders

## 65.060.35 Oprema za navodnjavanje i isušivanje

### Međunarodna normizacija ISO

ISO 9635-5:2014  
Agricultural irrigation equipment - Irrigation valves - Part 5: Control valves

## 65.060.40 Oprema za njegu biljaka

### Europska normizacija CEN

EN ISO 16119-4:2014  
Agricultural and forestry machinery - Environmental requirements for sprayers - Part 4: Fixed and semi-mobile sprayers (ISO 16119-4:2014)

### Međunarodna normizacija ISO

ISO 16119-4:2014  
Agricultural and forestry machinery - Environmental requirements for sprayers - Part 4: Fixed and semi-mobile sprayers

## 67.060 Žitarice, mahunarke i proizvodi od žitarica i mahunarka

### Europska normizacija CEN

EN ISO 5530-1:2014  
Wheat flour - Physical characteristics of doughs - Part 1: Determination of water absorption and rheological properties using a farinograph (ISO 5530-1:2013)

EN ISO 5530-2:2014  
Wheat flour - Physical characteristics of doughs - Part 2: Determination of rheological properties using an extensograph (ISO 5530-2:2012)

EN ISO 17715:2014  
Flour from wheat (*Triticum aestivum* L.) - Amperometric method for starch damage measurement (ISO 17715:2013)

EN ISO 17718:2014  
Wholemeal and flour from wheat (*Triticum aestivum* L.) - Determination of rheological behaviour as a function of mixing and temperature increase (ISO 17718:2013)

EN ISO 5527:2015  
Cereals - Vocabulary (ISO 5527:2015)

## 67.200.10 Životinjske i biljne masti i ulja

### Međunarodna normizacija ISO

ISO 12966-1:2014  
Animal and vegetable fats and oils - Gas chromatography of fatty acid methyl esters - Part 1: Guidelines on modern gas chromatography of fatty acid methyl esters

## 67.240 Senzorske analize

### Međunarodna normizacija ISO

ISO 11136:2014  
Sensory analysis - Methodology - General guidance for conducting hedonic tests with consumers in a controlled area

## 67.250 Materijali i predmeti u dodiru hranom

### Europska normizacija CEN

EN 15768:2015  
Influence of materials on water intended for human consumption - GC-MS identification of water leachable organic substances

## 67.260 Postrojenja i oprema za prehrambenu industriju

### Europska normizacija CEN

EN 15467:2014  
Food processing machinery - Fish heading and filleting machines - Safety and hygiene requirements

## 71.020 Proizvodnja u kemijskoj industriji

### Europska normizacija CEN

EN ISO 10628-1:2015  
Diagrams for the chemical and petrochemical industry - Part 1: Specification of diagrams (ISO 10628-1:2014)

## 71.040.20 Laboratorijsko posuđe i odgovarajuća aparatura

### Međunarodna normizacija IEC

IEC 61010-2-081:2015  
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes

## 71.040.40 Kemijska analiza

### Europska normizacija CENELEC

EN 61207-6:2015  
Expression of performance of gas analyzers - Part 6: Photometric analyzers (IEC 61207-6:2014)

### Međunarodna normizacija IEC

IEC 61010-2-081:2015  
Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes

## 71.040.50 Fizikalnokemijske metode analize

### Europska normizacija CEN

EN 15768:2015  
Influence of materials on water intended for human consumption - GC-MS identification of water leachable organic substances

## 71.100.60 Eterična ulja

### Međunarodna normizacija ISO

ISO 3064:2015  
Essential oil of petitgrain, Paraguayan type (*Citrus aurantium* L. var. *Paraguay* (syn. *Citrus aurantium* var. *bigaradia* Hook f.))

## 75.020 Crpenje i obrada nafte i prirodnoga plina

### Europska normizacija CEN

EN ISO 10628-1:2015  
Diagrams for the chemical and petrochemical industry - Part 1: Specification of diagrams (ISO 10628-1:2014)

## 75.060 Prirodni plin

### Međunarodna normizacija ISO

ISO 20765-2:2015  
Natural gas - Calculation of thermodynamic properties - Part 2: Single-phase properties (gas, liquid, and dense fluid) for extended ranges of application

## 75.100 Maziva, industrijska ulja i srodni proizvodi

### Međunarodna normizacija ISO

ISO 26422:2014  
Petroleum and related products - Determination of shear stability of lubricating oils containing polymers - Method using a tapered roller bearing

## 75.160.20 Tekuća goriva

### Europska normizacija CEN

EN 16568:2014  
Automotive fuels - Blends of Fatty acid methyl ester (FAME) with diesel fuel - Determination of oxidation stability by rapidly accelerated oxidation method at 120 °C

### Međunarodna normizacija ISO

ISO 17308:2015  
Petroleum products and other liquids - Ethanol - Determination of electrical conductivity

## 75.180.10 Oprema za iskorištavanje i vađenje

### Europska normizacija CEN

EN ISO 12736:2014  
Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO 12736:2014)

EN ISO 19901-3:2014  
Petroleum and natural gas industries - Specific requirements for offshore structures - Part 3: Topsides structure (ISO 19901-3:2014)

### Međunarodna normizacija ISO

ISO 12736:2014  
Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures

ISO 19901-3:2014  
Petroleum and natural gas industries - Specific requirements for offshore structures - Part 3: Topsides structure

ISO 19901-8:2014  
Petroleum and natural gas industries - Specific requirements for offshore structures - Part 8: Marine soil investigations

### IEC

IEC 61892-7:2014  
Mobile and fixed offshore units - Electrical installations - Part 7: Hazardous areas

## 77.040.20 Nerazorno ispitivanje metala

### Europska normizacija CEN

EN 15063-1:2014  
Copper and copper alloys - Determination of main constituents and impurities by wavelength dispersive X-ray fluorescence spectrometry (XRF) - Part 1: Guidelines to the routine method

## 77.040.30 Kemijska analiza metala

### Europska normizacija CEN

EN 15703-2:2014  
Copper and copper alloys - Determination of manganese content - Part 2: Flame atomic absorption spectrometric method (FAAS)

## 77.060 Korozija metala

### Europska normizacija CEN

EN ISO 7539-10:2014  
Corrosion of metals and alloys - Stress corrosion testing - Part 10: Reverse U-bend method (ISO 7539-10:2013)

EN ISO 7539-11:2014  
Corrosion of metals and alloys - Stress corrosion cracking - Part 11: Guidelines for testing the resistance of metals and alloys to hydrogen embrittlement and hydrogen-assisted cracking (ISO 7539-11:2013)

EN ISO 7441:2015  
Corrosion of metals and alloys - Determination of bimetallic corrosion in atmospheric exposure corrosion tests (ISO 7441:2015)

### Međunarodna normizacija ISO

ISO 7441:2015  
Corrosion of metals and alloys - Determination of bimetallic corrosion in atmospheric exposure corrosion tests

## 77.120.30 Bakar i legure bakra

### Europska normizacija CEN

EN 15063-1:2014  
Copper and copper alloys - Determination of main constituents and impurities by wavelength dispersive X-ray fluorescence spectrometry (XRF) - Part 1: Guidelines to the routine method

EN 15703-2:2014  
Copper and copper alloys - Determination of manganese content - Part 2: Flame atomic absorption spectrometric method (FAAS)

## 77.140.50 Proizvodi i poluproizvodi od plosnatog čelika

### Međunarodna normizacija ISO

ISO 4996:2014  
Hot-rolled steel sheet of high yield stress structural quality

ISO 4997:2015  
Cold-reduced carbon steel sheet of structural quality

## 77.140.70 Čelični profili

### Europska normizacija CEN

EN 14195:2014  
Metal framing components for gypsum board systems  
- Definitions, requirements and test methods

## 77.140.80 Odljevci od željeznog lijeva i čelični odljevci

### Europska normizacija CEN

EN 1371-2:2015  
Founding - Liquid penetrant testing - Part 2: Investment castings

EN 10293:2015  
Founding - Liquid penetrant testing - Part 2: Investment castings

## 77.150.99 Ostali proizvodi od obojenih metala

### Europska normizacija CEN

EN 1371-2:2015  
Founding - Liquid penetrant testing - Part 2: Investment castings

## 79.040 Drvo, trupci i piljena građa

### Međunarodna normizacija ISO

ISO 13061-3:2014  
Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 3: Determination of ultimate strength in static bending

ISO 13061-4:2014  
Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 4: Determination of modulus of elasticity in static bending

ISO 13061-6:2014  
Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 6: Determination of ultimate tensile stress parallel to grain

ISO 13061-7:2014  
Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 7: Determination of ultimate tensile stress perpendicular to grain

ISO 17959:2014  
General requirements for solid wood flooring

## 79.060.01 Ploče na osnovi drva općenito

### Europska normizacija CEN

CEN/TR 12872:2014  
Wood-based panels - Guidance on the use of load-bearing boards in floors, walls and roofs

## 81.080 Vatrostalni materijali

### Međunarodna normizacija ISO

ISO 16349:2015  
Refractory materials - Determination of abrasion resistance at elevated temperature

## 83.040.10 Lateks i sirova guma

### Međunarodna normizacija ISO

ISO 2005:2014  
Rubber latex, natural, concentrate - Determination of sludge content

## 83.040.20 Sastojci gume

### Međunarodna normizacija ISO

ISO 5794-2:2014  
Rubber compounding ingredients - Silica, precipitated, hydrated - Part 2: Evaluation procedures in styrene-butadiene rubber

## 83.060 Guma

### Međunarodna normizacija ISO

ISO 18064:2014  
Thermoplastic elastomers - Nomenclature and abbreviated terms

## 83.120 Ojačana plastika

### Međunarodna normizacija ISO

ISO 10406-1:2015  
Fibre-reinforced polymer (FRP) reinforcement of concrete - Test methods - Part 1: FRP bars and grids

ISO 10406-2:2015  
Fibre-reinforced polymer (FRP) reinforcement of concrete - Test methods - Part 2: FRP sheets

## 83.180 Adhezivi

### Europska normizacija CEN

EN 15307:2014  
Adhesives for leather and footwear materials - Sole-upper bonds - Minimum strength requirements

## 83.200 Oprema za industriju gume i plastike

### Europska normizacija CEN

EN 1417:2014  
Plastics and rubber machines - Two-roll mills - Safety requirements

## 85.040 Celuloza

### Međunarodna normizacija ISO

ISO 8784-1:2014  
Pulp, paper and board - Microbiological examination - Part 1: Enumeration of bacteria and bacterial spores based on disintegration

## 85.060 Papir i karton

### Međunarodna normizacija ISO

ISO 8784-1:2014  
Pulp, paper and board - Microbiological examination - Part 1:  
Enumeration of bacteria and bacterial spores based on  
disintegration

## 91.010.10 Zakonski aspekti

### Europska normizacija CEN

CEN/TR 13737-2:2014  
Gas infrastructure - Implementation Guide for Functional  
Standards prepared by CEN/TC 234 - Part 2: National Pages  
related to CEN/TC 234 standards

## 91.010.30 Tehnički aspekti

### Europska normizacija CEN

EN 1992-1-1/A1:2014  
Eurocode 2: Design of concrete structures - Part 1-1: General  
rules and rules for buildings

## 91.060.50 Vrata i prozori

### Europska normizacija CEN

EN 13120+A1/AC:2015  
Internal blinds - Performance requirements including safety

## 91.080.20 Drvene konstrukcije

### Europska normizacija CEN

EN 1075:2014  
Timber structures - Test methods - Joints made with punched  
metal plate fasteners

## 91.080.40 Betonske konstrukcije

### Europska normizacija CEN

EN 1992-1-1/A1:2014  
Eurocode 2: Design of concrete structures - Part 1-1: General  
rules and rules for buildings

## 91.090 Vanjske konstrukcije

### Međunarodna normizacija IEC

IEC 60335-2-95 AMD 1:2015  
IEC 60335-2-95 A1, Ed. 3: Household and similar electrical  
appliances - Safety - Part 2-95: Particular requirements for  
drives for vertically moving garage doors for residential use

IEC 60335-2-95 Edition 3.1:2015  
Household and similar electrical appliances - Safety - Part 2-95:  
Particular requirements for drives for vertically moving garage  
doors for residential use

## 91.100.10 Cement. Gips. Vapno. Mort

### Europska normizacija CEN

EN 13892-3:2014  
Methods of test for screed materials - Part 3: Determination of  
wear resistance - Bohme

EN 14195:2014  
Metal framing components for gypsum board systems  
- Definitions, requirements and test methods

## 91.100.30 Beton i betonski proizvodi

### Međunarodna normizacija ISO

ISO 10406-1:2015  
Fibre-reinforced polymer (FRP) reinforcement of concrete  
- Test methods - Part 1: FRP bars and grids

ISO 10406-2:2015  
Fibre-reinforced polymer (FRP) reinforcement of concrete  
- Test methods - Part 2: FRP sheets

## 91.100.50 Veziva. Materijali za brtvljenje

### Europska normizacija CEN

EN 15814+A2:2014  
Polymer modified bituminous thick coatings for waterproofing  
- Definitions and requirements

## 91.120.10 Toplinska izolacija

### Međunarodna normizacija ISO

ISO 16956:2015  
Thermal performance in the built environment - Determination  
of air flow rate in building applications by field measuring  
methods

## 91.120.20 Akustika u zgradama. Zvučna izolacija

### Međunarodna normizacija ISO

ISO 17497-1 AMD 1:2014  
Acoustics - Sound-scattering properties of surfaces - Part 1:  
Measurement of the random-incidence scattering coefficient  
in a reverberation room; Amendment 1

## 91.140.01 Instalacije u zgradama općenito

### Europska normizacija CEN

EN 14908-6:2014  
Open Data Communication in Building Automation, Controls  
and Building Management - Control Network Protocol - Part 6:  
Application elements

## 91.140.10 Sustavi centralnoga grijanja

### Europska normizacija CEN

EN 442-1:2014  
Radiators and convectors - Part 1: Technical specifications  
and requirements

EN 442-2:2014  
Radiators and convectors - Part 2: Test methods and rating

EN 16430-1:2014  
Fan assisted radiators, convectors and trench convectors  
- Part 1: Technical specifications and requirements

EN 16430-2:2014  
Fan assisted radiators, convectors and trench convectors  
- Part 2: Test method and rating for thermal output

EN 16430-3:2014  
Fan assisted radiators, convectors and trench convectors  
- Part 3: Test method and rating for cooling capacity

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Europska normizacija CEN

- EN 12309-1:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 1: Terms and definitions
- EN 12309-3:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 3: Test conditions
- EN 12309-4:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 4: Test methods
- EN 12309-5:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 5: Requirements
- EN 12309-6:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 6: Calculation of seasonal performances
- EN 12309-7:2014  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW - Part 7: Specific provisions for hybrid appliances
- EN 13141-6:2014  
Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 6: Exhaust ventilation system packages used in a single dwelling

### Međunarodna normizacija ISO

- ISO 10294-1 AMD 1:2014  
Fire resistance tests - Fire dampers for air distribution systems - Part 1: Test method; Amendment 1
- ISO 10294-4 AMD 1:2014  
Fire resistance tests - Fire dampers for air distribution systems - Part 4: Test of thermal release mechanism - Amendment 1: Specific performance requirement for thermal release mechanism based upon performance of thermal release mechanism used in ISO 10294-1 test specimen
- ISO 6944-1 AMD 1:2015  
Fire containment - Elements of building construction - Part 1: Ventilation ducts; Amendment 1

### IEC

- IEC 60335-2-65 AMD 2:2015  
Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances
- IEC 60335-2-65 Edition 2.2:2015  
Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances

## 91.140.40 Sustavi opskrbe plinom

### Europska normizacija CEN

- CEN/TR 13737-2:2014  
Gas infrastructure - Implementation Guide for Functional Standards prepared by CEN/TC 234 - Part 2: National Pages related to CEN/TC 234 standards

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CENELEC

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

- HD 60364-4-42:2011/A1:2015  
Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects (IEC 60364-4-42:2010/A1:2014)

- HD 60364-8-1:2015  
Low-voltage electrical installations - Part 8-1: Energy efficiency (IEC 60364-8-1:2014, modified)

## 93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

### Međunarodna normizacija ISO

- ISO 17892-1:2014  
Geotechnical investigation and testing - Laboratory testing of soil - Part 1: Determination of water content
- ISO 17892-2:2014  
Geotechnical investigation and testing - Laboratory testing of soil - Part 2: Determination of bulk density

## 93.080.30 Cestovna oprema i instalacije

### Europska normizacija CEN

- EN 12966:2014  
Road vertical signs - Variable message traffic signs

## 93.100 Gradnja željezničkih pruga

### Europska normizacija CEN

- EN 16273:2014  
Railway applications - Track - Forged rail transitions

## 97.030 Kućanski električni uređaji općenito

### Europska normizacija CENELEC

- EN 50574-1:2012/AC:2014  
Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons

### Međunarodna normizacija IEC

- IEC 60335-2-111:2015  
Household and similar electrical appliances - Safety - Part 2-111: Particular requirements for electric ondol mattress with a non-flexible heated part

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

### Europska normizacija CEN

- EN 203-2-1:2014  
Gas heated catering equipment - Part 2-1: Specific requirements - Open burners and wok burners
- EN 203-2-3:2014  
Gas heated catering equipment - Part 2-3: Specific requirements - Boiling pans

### CENELEC

- EN 60335-2-31:2014  
Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors (IEC 60335-2-31:2012, modified)

## 97.080 Uređaji za čišćenje podova

### Europska normizacija CENELEC

EN 60704-2-1:2015  
Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for vacuum cleaners (IEC 60704-2-1:2014)

### Međunarodna normizacija IEC

IEC 62885-3:2014  
Surface cleaning appliances - Part 3: Wet carpet cleaning appliances - Methods for measuring the performance

## 97.100.20 Plinski grijači

### Europska normizacija CENELEC

EN 50465:2015  
European product standard for combined heating power systems using gas fuel

## 97.120 Automatsko upravljanje za kućansku upotrebu

### Europska normizacija CEN

EN 14908-6:2014  
Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 6: Application elements

## 97.150 Netekstilni podni prekrivači

### Međunarodna normizacija ISO

ISO 24338:2014  
Laminate floor coverings - Determination of abrasion resistance

## 97.170 Oprema za njegu tijela

### Europska normizacija CENELEC

EN 60335-2-23/A2:2015  
Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care (IEC 60335-2-23:2003/A2:2012, modified)

EN 60335-2-32/A2:2015  
Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances (IEC 60335-2-32:2002/A2:2013, modified)

## 97.190 Oprema za djecu

### Europska normizacija CEN

EN 14682:2014  
Safety of children's clothing - Cords and drawstrings on children's clothing - Specifications

CEN/TR 16792:2014  
Safety of children's clothing - Recommendations for the design and manufacture of children's clothing - Mechanical safety

CEN/TR 16512:2015  
Child use and care articles - Guidelines for the safety of children's slings

### Međunarodna normizacija ISO/IEC

ISO/IEC Guide 50:2014  
Safety aspects - Guidelines for child safety in standards and other specifications

## 97.195 Umjetnički i obrtnički predmeti

### Europska normizacija CEN

EN 16581:2014  
Conservation of Cultural Heritage - Surface protection for porous inorganic materials - Laboratory test methods for the evaluation of the performance of water repellent products

## 97.200.50 Igračke

### Europska normizacija CEN

EN 71-14:2014  
Safety of toys - Part 14: Trampolines for domestic use

### CENELEC

EN 62115:2005/A12:2015  
Electric toys - Safety

### Međunarodna normizacija ISO

ISO 8124-1:2014  
Safety of toys - Part 1: Safety aspects related to mechanical and physical properties

## 97.200.99 Ostala oprema za zabavu

### Međunarodna normizacija IEC

IEC 60335-2-82 AMD 2:2015  
Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines

IEC 60335-2-82 Edition 2.2:2015  
Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines

## 97.220.40 Oprema za sportove na otvorenom i sportove na vodi

### Europska normizacija CEN

EN 564:2014  
Mountaineering equipment - Accessory cord - Safety requirements and test methods