

Hrvatski zavod za norme

Oglasnik za normativne dokumente

7/2019 srpanj, 2019.

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 nacрте hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

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

Izdavač:



HZN

Hrvatski zavod za norme
Croatian Standards Institute

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1 Rezultati hrvatske normizacije

1.1 Hrvatske norme

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

Hrvatske norme mogu nastati na ova četiri načina:

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

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

HZN/TO 8, Brodogradnja

HRN EN ISO 12215-5:2019 en pr
Mala plovila – Konstrukcija trupa i dimenzije konstrukcijskih elemenata – 5. dio: Projektni tlakovi za jednotrupna plovila, projektna naprezanja, određivanje dimenzija konstrukcijskih elemenata (ISO 12215-5:2019; EN ISO 12215-5:2019)
Small craft – Hull construction and scantlings – Part 5: Design pressures for monohulls, design stresses, scantlings determination (ISO 12215-5:2019; EN ISO 12215-5:2019)

HRN EN 15869-1:2019 en pr
Plovni objekti unutarnje plovidbe – Priključak električne energije s kopna, trofazna struja 400 V, 50 Hz, do 125 A – 1. dio: Opći zahtjevi (EN 15869-1:2019)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, 50 Hz, up to 125 A – Part 1: General requirements (EN 15869-1:2019)

HRN EN 15869-2:2019 en pr
Plovni objekti unutarnje plovidbe – Priključak električne energije s kopna, trofazna struja 400 V, 50 Hz, do 125 A – 2. dio: Uređaj na kopnu, dodatni zahtjevi (EN 15869-2:2019)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, 50 Hz, up to 125 A – Part 2: On-shore unit, additional requirements (EN 15869-2:2019)

HRN EN 15869-3:2019 en pr
Plovni objekti unutarnje plovidbe – Priključak električne energije s kopna, trofazna struja 400 V, 50 Hz, do 125 A – 3. dio: Uređaj na plovnom objektu, dodatni zahtjevi (EN 15869-3:2019)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, 50 Hz, up to 125 A – Part 3: On-board unit, additional requirements (EN 15869-3:2019)

HZN/TO 34, Poljoprivredni i prehrambeni proizvodi

HRN EN ISO 7971-2:2019 en pr
Žitarice – Određivanje nasipne gustoće nazvane "hektolitarska masa" – 2. dio: Metoda sljedivosti za mjerne instrumente preko referentnog do međunarodnog standardnog instrumenta (ISO 7971-2:2019; EN ISO 7971-2:2019)
Cereals – Determination of bulk density, called mass per hectolitre – Part 2: Method of traceability for measuring instruments through reference to the international standard instrument (ISO 7971-2:2019; EN ISO 7971-2:2019)

HRN EN ISO 7971-3:2019 en pr
Žitarice – Određivanje nasipne gustoće, nazvane "hektolitarska masa" – 3. dio: Rutinska metoda (ISO 7971-3:2019; EN ISO 7971-3:2019)
Cereals – Determination of bulk density, called mass per hectolitre – Part 3: Routine method (ISO 7971-3:2019; EN ISO 7971-3:2019)

HRN EN ISO 34101-3:2019 en pr
Održivost i sljedivost kakaa – 3. dio: Zahtjevi za sljedivost (ISO 34101-3:2019; EN ISO 34101-3:2019)
Sustainable and traceable cocoa – Part 3: Requirements for traceability (ISO 34101-3:2019; EN ISO 34101-3:2019)

HRN EN ISO 34101-4:2019 en pr
Održivost i sljedivost kakaa – 4. dio: Zahtjevi za certifikacijske sheme (ISO 34101-4:2019; EN ISO 34101-4:2019)
Sustainable and traceable cocoa – Part 4: Requirements for certification schemes (ISO 34101-4:2019; EN ISO 34101-4:2019)

HZN/TO 44, Zavarivanje i srodni postupci

HRN EN ISO 15620:2019 en pr
Zavarivanje – Zavarivanje metalnih materijala trenjem (ISO 15620:2019; EN ISO 15620:2019)
Welding – Friction welding of metallic materials (ISO 15620:2019; EN ISO 15620:2019)

HZN/TO 47, Kemija

HRN EN 14175-3:2019 en pr
Digestori – 3. dio: Tipovi metoda ispitivanja (EN 14175-3:2019)
Fume cupboards – Part 3: Type test methods (EN 14175-3:2019)

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

HRN EN 16838:2019 en pr
Rashladne vitrine i pozzetti za prodaju sladoleda na kuglice – Razredba, zahtjevi, značajke i ispitivanje potrošnje energije (EN 16838:2019)
Refrigerated display scooping cabinets and pozzetto for gelato – Classification, requirements, performance and energy consumption testing (EN 16838:2019)

HRN EN ISO 22041:2019 en pr
Rashladni ormari i vitrine za skladištenje hrane za profesionalnu upotrebu – Značajke i potrošnja energije (ISO 22041:2019; EN ISO 22041:2019)
Refrigerated storage cabinets and counters for professional use – Performance and energy consumption (ISO 22041:2019; EN ISO 22041:2019)

HZN/TO 89, Furniri i drvene ploče

HRN EN 622-4:2019 en pr
Ploče vlaknatice – Specifikacije – 4. dio: Zahtjevi za lake ploče (EN 622-4:2019)
Fibreboards – Specifications – Part 4: Requirements for softboards (EN 622-4:2019)

HZN/TO 108, Mehaničke vibracije i udari

HRN EN ISO 28927-8:2010/A2:2019 en pr
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 8: Saws; polishing and filing machines with reciprocating action and small saws with oscillating or rotating action – Amendment 2: Oscillating knives (vibrating screen removal tools) (ISO 28927-8:2009/Amd 2:2019; EN ISO 28927-8:2009/A2:2019)

HZN/TO 120, Koža i obuća

HRN EN ISO 18218-2:2019 en pr
Koža – Određivanje etoksiliranih alkilfenola – 2. dio: Neizravna metoda (ISO 18218-2:2019; EN ISO 18218-2:2019)
Leather – Determination of ethoxylated alkylphenols – Part 2: Indirect method (ISO 18218-2:2019; EN ISO 18218-2:2019)

HRN EN ISO 23910:2019 en pr
Koža – Fizikalna i mehanička ispitivanja – Mjerenje otpornosti na kidanje klinom (ISO 23910:2019; EN ISO 23910:2019)
Leather – Physical and mechanical tests – Measurement of stitch tear resistance (ISO 23910:2019; EN ISO 23910:2019)

HZN/TO 135, Nerazorna ispitivanja

HRN EN ISO 16809:2019 en pr
Nerazorno ispitivanje – Mjerenje debljine ultrazvukom (ISO 16809:2017; EN ISO 16809:2019)
Non-destructive testing – Ultrasonic thickness measurement (ISO 16809:2017; EN ISO 16809:2019)

HZN/TO 136, Namještaj

HRN EN 716-1:2019 en pr
Namještaj – Dječji kreveti i prijenosni dječji kreveti za kućnu uporabu – 1. dio: Sigurnosni zahtjevi (EN 716-1:2017+AC:2019)
Furniture – Children's cots and folding cots for domestic use – Part 1: Safety requirements (EN 716-1:2017+AC:2019)

HRN EN 15939:2019 en pr
Okov za namještaj – Čvrstoća i nosivost zidnog okova
(EN 15939:2019)
Hardware for furniture – Strength and loading capacity of wall
attachment devices (EN 15939:2019)

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

HRN EN 549:2019 en pr
Elastomerni materijali za brtve i membrane za plinske uređaje i
plinsku opremu (EN 549:2019)
Rubber materials for seals and diaphragms for gas appliances
and gas equipment (EN 549:2019)

HRN EN 1401-1:2019 en pr
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i
kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio:
Specifikacije za cijevi, spojnice i sustav (EN 1401-1:2019)
Plastics piping systems for non-pressure underground
drainage and sewerage – Unplasticized poly(vinyl chloride)
(PVC-U) – Part 1: Specifications for pipes, fittings and the
system (EN 1401-1:2019)

HZN/TO 146, *Kvaliteta zraka*

HRN EN ISO 22065:2019 en pr
Zrak u radnom prostoru – Plinovi i pare – Zahtjevi za
vrednovanje mjernih postupaka uporabom prosisnih
uzorkivača (ISO 22065:2019; EN ISO 22065:2019)
Workplace air – Gases and vapours – Requirements for
evaluation of measuring procedures using pumped samplers
(ISO 22065:2019; EN ISO 22065:2019)

HZN/TO 147, *Kvaliteta vode*

HRN EN ISO 9697:2019 en pr
Kvaliteta vode – Ukupna beta aktivnost – Metoda ispitivanja
upotrebom debelog izvora (ISO 9697:2018; EN ISO 9697:2019)
Water quality – Gross beta activity – Test method using thick
source (ISO 9697:2018; EN ISO 9697:2019)

HZN/TO 207, *Upravljanje okolišem*

HRN EN ISO 14005:2019 en pr
Sustavi upravljanja okolišem – Smjernice za fleksibilan pristup
provedbi u fazama (ISO 14005:2019; EN ISO 14005:2019)
Environmental management systems – Guidelines for a
flexible approach to phased implementation (ISO 14005:2019;
EN ISO 14005:2019)

HRN EN ISO 14090:2019 en pr
Prilagodba klimatskim promjenama – Načela, zahtjevi i
smjernice (ISO 14090:2019; EN ISO 14090:2019)
Adaptation to climate change – Principles, requirements and
guidelines (ISO 14090:2019; EN ISO 14090:2019)

HZN/TO 215, *Medicinska informatika*

HRN EN ISO 13606-1:2019 en pr
Medicinska informatika – Prijenos elektroničkoga medicinskog
zapisa – 1. dio: Referentni model (ISO 13606-1:2019;
EN ISO 13606-1:2019)
Health informatics – Electronic health record communication
– Part 1: Reference model (ISO 13606-1:2019;
EN ISO 13606-1:2019)

HRN EN ISO 13606-2:2019 en pr
Medicinska informatika – Prijenos elektroničkoga medicinskog
zapisa – 2. dio: Specifikacija razmjene prototipova
(ISO 13606-2:2019; EN ISO 13606-2:2019)
Health informatics – Electronic health record communication
– Part 2: Archetype interchange specification (ISO 13606-2:2019;
EN ISO 13606-2:2019)

HRN EN ISO 13606-3:2019 en pr
Medicinska informatika – Prijenos elektroničkoga medicinskog
zapisa – 3. dio: Referentni prototipovi i popisi naziva
(ISO 13606-3:2019; EN ISO 13606-3:2019)
Health informatics – Electronic health record communication
– Part 3: Reference archetypes and term lists
(ISO 13606-3:2019; EN ISO 13606-3:2019)

HRN EN ISO 13606-4:2019 en pr
Medicinska informatika – Prijenos elektroničkoga
medicinskog zapisa – 4. dio: Sigurnost (ISO 13606-4:2019;
EN ISO 13606-4:2019)
Health informatics – Electronic health record communication
– Part 4: Security (ISO 13606-4:2019; EN ISO 13606-4:2019)

HRN EN ISO 13606-5:2019 en pr
Medicinska informatika – Prijenos elektroničkoga zdravstvenog
zapisa – 5. dio: Specifikacija sučelja (ISO 13606-5:2019;
EN ISO 13606-5:2019)
Health informatics – Electronic health record communication
– Part 5: Interface specification (ISO 13606-5:2019;
EN ISO 13606-5:2019)

HZN/TO 503, *Metalni materijali*

HRN EN 10136:2019 en pr
Čelici i željezni lijevovi – Određivanje sadržaja nikla – Metoda
plamene atomske apsorpcijske spektrometrije (FAAS)
(EN 10136:2019)
Steels and cast irons – Determination of nickel content
– Flame atomic absorption spectrometric method (FAAS)
(EN 10136:2019)

HRN EN 10177:2019 en pr
Čelici – Određivanje sadržaja kalcija – Metoda plamene
atomske apsorpcijske spektrometrije (FAAS) (EN 10177:2019)
Steels – Determination of calcium content – Flame atomic
absorption spectrometric method (FAAS) (EN 10177:2019)

HRN EN 10181:2019 en pr
Čelici – Određivanje sadržaja olova – Metoda plamene atomske
apsorpcijske spektrometrije (FAAS) (EN 10181:2019)
Steels – Determination of lead content – Flame atomic
absorption spectrometric method (FAAS) (EN 10181:2019)

HRN EN 17263:2019 en pr
Bakar i legure bakra – Ispitivanje vrtložnim strujama na
vanjskoj površini šipki iz punog, pravokutnog i šupljeg profila
i žica za otkrivanje grešaka obuhvatnom ispitnom zavojnicom
(EN 17263:2019)
Copper and copper alloys – Eddy current testing on the outer
surface of rods, bars, hollow rods and wires for the detection
of defects by encircling test coil (EN 17263:2019)

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

HRN EN ISO 10418:2019 en pr
Industrija nafte i prirodnoga plina – Odobalna proizvodna
postrojenja – Sustavi za sigurnost procesa (ISO 10418:2019;
EN ISO 10418:2019)
Petroleum and natural gas industries – Offshore production
installations – Process safety systems (ISO 10418:2019;
EN ISO 10418:2019)

HRN EN ISO 19345-2:2019 en pr
Industrija nafte i prirodnoga plina – Cjevovodni transportni
sustavi – Specifikacija upravljanja cjelovitošću cjevovoda
– 2. dio: Upravljanje cjelovitošću odobalnih cjevovoda
tijekom čitavog životnog ciklusa (ISO 19345-2:2019;
EN ISO 19345-2:2019)
Petroleum and natural gas industry – Pipeline transportation
systems – Pipeline integrity management specification
– Part 2: Full-life cycle integrity management for offshore
pipeline (ISO 19345-2:2019; EN ISO 19345-2:2019)

HRN EN ISO 19900:2019 en pr
Industrija nafte i prirodnoga plina – Opći zahtjevi za odobalne
objekte (ISO 19900:2019; EN ISO 19900:2019)
Petroleum and natural gas industries – General requirements
for offshore structures (ISO 19900:2019; EN ISO 19900:2019)

HRN EN ISO 19904-1:2019 en pr
Industrija nafte i prirodnoga plina – Plutajuće odobalne
konstrukcije – 1. dio: U obliku broda, poluuronjive, kesonskog
oblika s dubokim gazom (sidreće) i cilindrične konstrukcije s
plitkim gazom (ISO 19904-1:2019; EN ISO 19904-1:2019)
Petroleum and natural gas industries – Floating offshore
structures – Part 1: Ship-shaped, semi-submersible, spar and
shallow-draught cylindrical structures (ISO 19904-1:2019;
EN ISO 19904-1:2019)

HZN/TO 522, *Karakterizacija i zbrinjavanje otpada*

HRN EN 13071-1:2019 en pr
Stalni spremnici za otpad do 5 000 l koji se podižu i prazne
kroz dno – 1. dio: Opći zahtjevi (EN 13071-1:2019)
Stationary waste containers up to 5 000 l, top lifted and bottom
emptied – Part 1: General requirements (EN 13071-1:2019)

HRN EN 13071-2:2019 en pr
Stalni spremnici za otpad do 5 000 l koji se podižu i prazne kroz dno – 2. dio: Dodatni zahtjevi za podzemne i djelomice podzemne sustave (EN 13071-2:2019)
Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 2: Additional requirements for underground or partly underground systems (EN 13071-2:2019)

HZN/TO 528, Oprema za željeznice

HRN EN 16922:2019 en pr
Željeznički sustav – Stacionarna služba – Oprema za pražnjenje otpadne vode iz vozila (EN 16922:2017+A1:2019)
Railway applications – Ground based services – Vehicle waste water discharge equipment (EN 16922:2017+A1:2019)

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

HRN EN 14492-2:2019 en pr
Granici – Vitla i dizalice na strojni pogon – 2. dio: Dizalice na strojni pogon (EN 14492-2:2019)
Cranes – Power driven winches and hoists – Part 2: Power driven hoists (EN 14492-2:2019)

HZN/TO 531, Plastika i guma

HRN EN ISO 305:2019 en pr
Plastika – Određivanje toplinske postojanosti poli(vinil-klorida), srodnih homopolimera i kopolimera koji sadrže klor i njihovih mješavina – Metoda promjene obojenja (ISO 305:2019; EN ISO 305:2019)
Plastics – Determination of thermal stability of poly(vinyl chloride), related chlorine-containing homopolymers and copolymers and their compounds – Discoloration method (ISO 305:2019; EN ISO 305:2019)

HRN EN ISO 1110:2019 en pr
Plastika – Poliamidi – Ubrzano kondicioniranje ispitaka (ISO 1110:2019; EN ISO 1110:2019)
Plastics – Polyamides – Accelerated conditioning of test specimens (ISO 1110:2019; EN ISO 1110:2019)

HRN EN ISO 13468-1:2019 en pr
Plastika – Određivanje ukupne svjetlosne propustnosti prozirnih materijala – 1. dio: Instrument s jednim snopom (ISO 13468-1:2019; EN ISO 13468-1:2019)
Plastics – Determination of the total luminous transmittance of transparent materials – Part 1: Single-beam instrument (ISO 13468-1:2019; EN ISO 13468-1:2019)

HRN EN 17271:2019 en pr
Plastika – Profili na osnovi poli(vinil-klorida) – Određivanje čvrstoće ljuštenja profila oslojenih folijama (EN 17271:2019)
Plastics – Poly(vinyl chloride) (PVC) based profiles – Determination of the peel strength of profiles laminated with foils (EN 17271:2019)

HRN EN ISO 17422:2019 en pr
Plastika – Aspekti okoliša – Opće smjernice za njihovo uključivanje u norme (ISO 17422:2018; EN ISO 17422:2019)
Plastics – Environmental aspects – General guidelines for their inclusion in standards (ISO 17422:2018; EN ISO 17422:2019)

HRN EN ISO 21302-1:2019 en pr
Plastika – Polibutenski-1 (PB-1) prešani i ekstrudirani materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 21302-1:2019; EN ISO 21302-1:2019)
Plastics – Polybutene-1 (PB-1) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21302-1:2019; EN ISO 21302-1:2019)

HRN EN ISO 21302-2:2019 en pr
Plastika – Polibutenski-1 (PB-1) prešani i ekstrudirani materijali – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 21302-2:2019; EN ISO 21302-2:2019)
Plastics – Polybutene-1 (PB-1) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 21302-2:2019; EN ISO 21302-2:2019)

HZN/TO 544, Strojni elementi

HRN EN ISO 7053:2019 en pr
Spojni elementi – Samonarezni vijci sa šesterokutnom priрубnom glavom (ISO 7053:2019; EN ISO 7053:2019)
Fasteners – Hexagon washer head tapping screws (ISO 7053:2019; EN ISO 7053:2019)

HRN EN ISO 15480:2019 en pr
Spojni elementi – Samobušeci samonarezni vijci sa šesterokutnom priрубnom glavom (ISO 15480:2019; EN ISO 15480:2019)
Fasteners – Hexagon washer head drilling screws with tapping screw thread (ISO 15480:2019; EN ISO 15480:2019)

HZN/TO 555, Medicinski proizvodi

HRN EN ISO 14644-16:2019 en pr
Cleanrooms and associated controlled environments – Part 16: Energy efficiency in cleanrooms and separative devices (ISO 14644-16:2019; EN ISO 14644-16:2019)

HZN/TO 558, Zaštita dišnih putova

HRN EN 13274-7:2019 en pr
Zaštitne naprave za disanje – Metode ispitivanja – 7. dio: Određivanje prodiranja kroz filter za čestice (EN 13274-7:2019)
Respiratory protective devices – Methods of test – Part 7: Determination of particle filter penetration (EN 13274-7:2019)

HZN/TO 559, Zaporni, regulacijski i sigurnosni uređaji

HRN EN ISO 4126-1:2013/A2:2019 en pr
Sigurnosni uređaji za zaštitu od prekomjernog tlaka – 1. dio: Sigurnosni zaporni uređaji (EN ISO 4126-1:2013/A2:2019)
Safety devices for protection against excessive pressure – Part 1: Safety valves (EN ISO 4126-1:2013/A2:2019)

HZN/TO 560, Tekstilni proizvodi

HRN EN ISO 1833-27:2019 en pr
Tekstil – Kvantitativna kemijska analiza – 27. dio: Mješavine celuloznih vlakana s određenim drugim vlaknima (metoda s uporabom aluminij sulfata) (ISO 1833-27:2018; EN ISO 1833-27:2019)
Textiles – Quantitative chemical analysis – Part 27: Mixtures of cellulose fibres with certain other fibres (method using aluminium sulfate) (ISO 1833-27:2018; EN ISO 1833-27:2019)

HRN EN 17130:2019 en pr
Tekstil i tekstilni proizvodi – Određivanje dimetilfumarata (DMFu) metodom plinske kromatografije (EN 17130:2019)
Textiles and textile products – Determination of dimethylfumarate (DMFu), method using gas chromatography (EN 17130:2019)

HRN EN 17131:2019 en pr
Tekstil i tekstilni proizvodi – Određivanje dimetilformamida (DMF) metodom plinske kromatografije (EN 17131:2019)
Textiles and textile products – Determination of dimethylformamide (DMF), method using gas chromatography (EN 17131:2019)

HRI CEN/TR 17376:2019 en pr
Tekstil – Sigurnost dječje odjeće – Smjernice za uporabu norme EN 14682:2014 Gajtani i vezice na dječjoj odjeći – Specifikacije (CEN/TR 17376:2019)
Textiles – Safety of children's clothing – Guidance on the use of EN 14682:2014 Cords and drawstrings on children's clothing – Specifications (CEN/TR 17376:2019)

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

HRN EN 12807:2019 en pr
Oprema i pribor za UNP – Prenosive, ponovno punjive, tvrdo lemljene čelične boce za ukapljeni naftni plin (UNP) – Projektiranje i izrada (EN 12807:2019)
LPG equipment and accessories – Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) – Design and construction (EN 12807:2019)

HRN EN ISO 14456:2016/A1:2019 en pr
Plinske boce – Svojstva plina i pridružene razredbene (FTSC) oznake (ISO 14456:2015/Amd 1:2019; EN ISO 14456:2016/A1:2019)
Gas cylinders – Gas properties and associated classification (FTSC) codes (ISO 14456:2015/Amd 1:2019; EN ISO 14456:2016/A1:2019)

HRN EN 16652-2:2019 en pr
Oprema i pribor za UNP – Radionice za motorna vozila na UNP – 2. dio: Osposobljenost i obuka osoblja (EN 16652-2:2019)
LPG equipment and accessories – Automotive LPG vehicles workshops – Part 2: Personnel competence and training (EN 16652-2:2019)

HZN/TO 566, Mlijeko i mliječni proizvodi

HRN EN ISO 17678:2019 en pr
Mlijeko i mliječni proizvodi – Određivanje čistoće mliječne masti plinskom kromatografijom analizom triacilglicerola (ISO 17678:2019; EN ISO 17678:2019)
Milk and milk products – Determination of milk fat purity by gas chromatographic analysis of triglycerides (ISO 17678:2019; EN ISO 17678:2019)

HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom

HRN ISO 16649-1:2019 en pr
Mikrobiologija u lancu hrane – Metoda brojenja beta-glucuronidasa pozitivne Escherichia coli – 1. dio: Brojenje kolonija pri 44 °C uporabom membranske filtracije i 5-bromo-4-chloro-3-indolyl beta-D-glucuronide (ISO 16649-1:2018)
Microbiology of the food chain – Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli – Part 1: Colony-count technique at 44 degrees C using membranes and 5-bromo-4-chloro-3-indolyl beta-D-glucuronide (ISO 16649-1:2018)

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

HRN EN 1069-1:2019 en pr
Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1069-1:2017+A1:2019)
Water slides – Part 1: Safety requirements and test methods (EN 1069-1:2017+A1:2019)

HZN/TO E10, Fluidi za primjenu u elektrotehnici

HRN EN IEC 63012:2019 en pr
Izolacijske tekućine – Nekorišteni modificirani esteri ili mješavine estera za primjenu u elektrotehnici (IEC 63012:2019; EN IEC 63012:2019)
Insulating liquids – Unused modified or blended esters for electrotechnical applications (IEC 63012:2019; EN IEC 63012:2019)

HZN/TO E14, Energetski transformatori

HRN EN IEC 60076-11:2018/Ispr.1:2019 en pr
Energetski transformatori – 11. dio: Suhi transformatori (IEC 60076-11:2018/Corr.1:2019; EN IEC 60076-11:2018/AC:2019)
Power transformers – Part 11: Dry-type transformers (IEC 60076-11:2018/Corr.1:2019; EN IEC 60076-11:2018/AC:2019)

HRN EN 60076-22-2:2019 en pr
Oprema za hlađenje energetskih transformatora i prigušnica – Dio 22-2: Odvojivi radijatori (IEC 60076-22-2:2019; EN 60076-22-2:2019)
Power transformer and reactor cooling equipment – Part 22-2: Removable radiators (IEC 60076-22-2:2019; EN 60076-22-2:2019)

HZN/TO E15, Čvrsti elektrotehnički izolacijski materijali

HRN EN IEC 60674-3-2:2019 en pr
Specifikacija za plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 2. list: Zahtjevi za uravnotežene dvoosno orijentirane polietilen tereftalatne folije (PET) koje se upotrebljavaju za električnu izolaciju (IEC 60674-3-2:2019; EN IEC 60674-3-2:2019)
Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Requirements for balanced biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation (IEC 60674-3-2:2019; EN IEC 60674-3-2:2019)

HRN EN IEC 62677-3-103:2019 en pr
Toplinski skupljajući lijevani oblici za niski i srednji napon – 3. dio: Specifikacija za pojedinačne materijale – 103. list: Toplinski skupljajući, poliolefinski, vodljivi lijevani oblici za srednjonaponske primjene (IEC 62677-3-103:2019; EN IEC 62677-3-103:2019)
Heat-shrinkable low and medium voltage moulded shapes – Part 3: Specification for individual materials – Sheet 103: Heat-shrinkable, polyolefin, conductive moulded shapes for medium voltage applications (IEC 62677-3-103:2019; EN IEC 62677-3-103:2019)

HZN/TO E17, Sklopni i upravljački uređaji

HRN EN 50041:2019 en pr
Niskonaponska sklopna aparatura za upotrebu u industriji – Upravljačke sklopke – Pozicijske sklopke 42,5 x 80 – Dimenzije i karakteristike (EN 50041:2019)
Low-voltage switchgear and controlgear – Control switches – Position switches 42,5 x 80 – Dimensions and characteristics (EN 50041:2019)

HRN EN 50047:2019 en pr
Niskonaponska sklopna aparatura – Upravljačke sklopke – Pozicijske sklopke 30 x 55 – Dimenzije i karakteristike (EN 50047:2019)
Low-voltage switchgear and controlgear – Control switches – Position switches 30 x 55 – Dimensions and characteristics (EN 50047:2019)

HRN EN IEC 62026-1:2019 en pr
Niskonaponska sklopna aparatura – Sučelja između upravljačkih i periferijskih uređaja – 1. dio: Opća pravila (IEC 62026-1:2019; EN IEC 62026-1:2019)
Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 1: General rules (IEC 62026-1:2019; EN IEC 62026-1:2019)

HRN EN IEC 62271-107:2019 en pr
Visokonaponska sklopna aparatura – 107. dio: Osigurači sklopke izmjenične struje za nazivne napone iznad 1 kV do uključujući 52 kV (IEC 62271-107:2019; EN IEC 62271-107:2019)
High-voltage switchgear and controlgear – Part 107: Alternating current fused circuit-switchers for rated voltages above 1 kV up to and including 52 kV (IEC 62271-107:2019; EN IEC 62271-107:2019)

HZN/TO E22, Energetska elektronika

HRN EN IEC 60633:2019 en pr
Prijenos istosmjernom strujom visokog napona (HVDC) – Rječnik (IEC 60633:2019; EN IEC 60633:2019)
High-voltage direct current (HVDC) transmission – Vocabulary (IEC 60633:2019; EN IEC 60633:2019)

HZN/TO E23, Električni instalacijski pribor

HRN EN 60320-1:2015/Ispr.2:2019 en pr
Aparatni utični pribor za kućanstvo i slične opće svrhe – 1. dio: Opći zahtjevi (IEC 60320-1:2015/Corr.2:2019; EN 60320-1:2015/AC:2019)
Appliance couplers for household and similar general purposes – Part 1: General requirements (IEC 60320-1:2015/Corr.2:2019; EN 60320-1:2015/AC:2019)

HZN/TO E34, Žarulje, svjetiljke i pripadna oprema

HRN EN 61167:2018/Ispr.1:2019 en pr
Metal-halogene žarulje – Izvedbeni zahtjevi (IEC 61167:2018/Corr.1:2019; EN 61167:2018/AC:2019)
Metal halide lamps – Performance specification (IEC 61167:2018/Corr.1:2019; EN 61167:2018/AC:2019)

HRN EN 61347-2-11:2008/A1:2019 en pr
Predspojne naprave – Dio 2-11: Posebni zahtjevi za raznovrsne elektroničke krugove koji se upotrebljavaju sa svjetiljkama (IEC 61347-2-11:2001/am1:2017; EN 61347-2-11:2001/A1:2019)
Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires (IEC 61347-2-11:2001/am1:2017; EN 61347-2-11:2001/A1:2019)

HRN EN 61347-2-7:2012/A1:2019 en pr
Predspojne naprave – Dio 2-7: Posebni zahtjevi za predspojne naprave za rasvjetu u slučaju nužde (autonomnu) koje se napajaju baterijama (IEC 61347-2-7:2011/am1:2017; EN 61347-2-7:2012/A1:2019)
Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) (IEC 61347-2-7:2011/am1:2017; EN 61347-2-7:2012/A1:2019)

HRN EN IEC 62386-104:2019 en pr
Digitalno upravljanje rasvjetom – 104. dio: Opći zahtjevi – Komponente za bežični i alternativni žični sustav (IEC 62386-104:2019; EN IEC 62386-104:2019)
Digital addressable lighting interface – Part 104: General requirements – Wireless and alternative wired system components (IEC 62386-104:2019; EN IEC 62386-104:2019)

HRN EN IEC 63128:2019 en pr
Upravljačko sučelje za prigušivanje rasvjete – Analogno sučelje za prigušivanje napona za elektroničke strujne predspojne naprave (IEC 63128:2019; EN IEC 63128:2019)
Lighting control interface for dimming – Analogue voltage dimming interface for electronic current sourcing controlgear (IEC 63128:2019; EN IEC 63128:2019)

HRN EN IEC 63146:2019 en pr
Svjetleće diode za opću rasvjetu – List sa specifikacijama (IEC 63146:2019; EN IEC 63146:2019)
LED packages for general lighting – Specification sheet (IEC 63146:2019; EN IEC 63146:2019)

HZN/TO E38, Mjerni transformatori

HRN EN IEC 61869-9:2019 en pr
Mjerni transformatori – 9. dio: Digitalno sučelje za mjerne transformatore (IEC 61869-9:2016; EN IEC 61869-9:2019)
Instrument transformers – Part 9: Digital interface for instrument transformers (IEC 61869-9:2016; EN IEC 61869-9:2019)

HRN EN IEC 61869-14:2019 en pr
Mjerni transformatori – 14. dio: Dodatni zahtjevi za strujne transformatore za DC primjenu (IEC 61869-14:2018; EN IEC 61869-14:2019)
Instrument transformers – Part 14: Additional requirements for current transformers for DC applications (IEC 61869-14:2018; EN IEC 61869-14:2019)

HRN EN IEC 61869-15:2019 en pr
Mjerni transformatori – 15. dio: Dodatni zahtjevi za naponske transformatore za DC primjenu (IEC 61869-15:2018; EN IEC 61869-15:2019)
Instrument transformers – Part 15: Additional requirements for voltage transformers for DC applications (IEC 61869-15:2018; EN IEC 61869-15:2019)

HZN/TO E45, Nuklearna instrumentacija

HRN EN IEC 60709:2019 en pr
Nuklearne elektrane – Instrumentacija, kontrolni i električni sustavi napajanja važni za sigurnost – Separacija (IEC 60709:2018; EN IEC 60709:2019)
Nuclear power plants – Instrumentation, control and electrical power systems important to safety – Separation (IEC 60709:2018; EN IEC 60709:2019)

HRN EN IEC 60964:2019 en pr
Nuklearne elektrane – Upravljačke sobe – Projektiranje (IEC 60964:2018; EN IEC 60964:2019)
Nuclear power plants – Control rooms – Design (IEC 60964:2018; EN IEC 60964:2019)

HRN EN IEC 61500:2019 en pr
Nuklearne elektrane – Instrumentacija i sustavi upravljanja koji su važni za sigurnost – Komunikacija podacima u sustavima koji provode A funkcije (IEC 61500:2018; EN IEC 61500:2019)
Nuclear power plants – Instrumentation and control systems important to safety – Data communication in systems performing category A functions (IEC 61500:2018; EN IEC 61500:2019)

HRN EN IEC 62465:2019 en pr
Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Upravljanje starenjem sustava električnih vodova (IEC 62465:2010; EN IEC 62465:2019)
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of electrical cabling systems (IEC 62465:2010; EN IEC 62465:2019)

HRN EN IEC 62646:2019 en pr
Nuklearne elektrane – Kontrolne sobe – Računalno kontrolirani postupci (IEC 62646:2016; EN IEC 62646:2019)
Nuclear power plants – Control rooms – Computer-based procedures (IEC 62646:2016; EN IEC 62646:2019)

HRN EN 62808:2016/A1:2019 en pr
Nuklearne elektrane – Instrumentacija i kontrolni sustavi važni za sigurnost – Izvedba i kvalifikacija izolacijskih naprava (IEC 62808:2015/am1:2018; EN 62808:2016/A1:2019)
Nuclear power plants – Instrumentation and control systems important to safety – Design and qualification of isolation devices (IEC 62808:2015/am1:2018; EN 62808:2016/A1:2019)

HRN EN IEC 62976:2019 en pr
Industrijska nedestruktivna oprema za testiranje – Linearni akceleratori elektrona (IEC 62976:2017; EN IEC 62976:2019)
Industrial non-destructive testing equipment – Electron linear accelerator (IEC 62976:2017; EN IEC 62976:2019)

HZN/TO E56, Pouzdanost

HRN EN IEC 62402:2019 en pr
Upravljanje starenjem opreme (IEC 62402:2019; EN IEC 62402:2019)
Obsolescence management (IEC 62402:2019; EN IEC 62402:2019)

HZN/TO E61, Sigurnost električnih kućanskih i sličnih aparata

HRN EN 60335-2-66:2008/A11:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-66: Posebni zahtjevi za grijalice vodenih kreveta (EN 60335-2-66:2003/A11:2019)
Household and similar electrical appliances – Safety – Part 2-66: Particular requirements for water-bed heaters (EN 60335-2-66:2003/A11:2019)

HRN EN 60335-2-70:2008/A2:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-70: Posebni zahtjevi za muzilice (IEC 60335-2-70:2002/am2:2013; EN 60335-2-70:2002/A2:2019)
Household and similar electrical appliances – Safety – Part 2-70: Particular requirements for milking machines (IEC 60335-2-70:2002/am2:2013; EN 60335-2-70:2002/A2:2019)

HRN EN 60335-2-84:2008/A2:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-84: Posebni zahtjevi za zahode (IEC 60335-2-84:2002/am2:2013, MOD; EN 60335-2-84:2003/A2:2019)
Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets (IEC 60335-2-84:2002/am2:2013, MOD; EN 60335-2-84:2003/A2:2019)

HRN EN 60335-2-87:2008/A2:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-87: Posebni zahtjevi za omamljivala životinja (IEC 60335-2-87:2002/am2:2012; EN 60335-2-87:2002/A2:2019)
Household and similar electrical appliances – Safety – Part 2-87: Particular requirements for electrical animal-stunning equipment (IEC 60335-2-87:2002/am2:2012; EN 60335-2-87:2002/A2:2019)

HRN EN 60335-2-98:2008/A11:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-98: Posebni zahtjevi za ovlaživače (EN 60335-2-98:2003/A11:2019)
Household and similar electrical appliances – Safety – Part 2-98: Particular requirements for humidifiers (EN 60335-2-98:2003/A11:2019)

HRN EN 60335-2-99:2008/A1:2019 en pr
Kućanski i slični električni aparati – Sigurnost – Dio 2-99: Posebni zahtjevi za ugostiteljske odsisne kape (IEC 60335-2-99:2003/am1:2017; EN 60335-2-99:2003/A1:2019)
Household and similar electrical appliances – Safety – Part 2-99: Particular requirements for commercial electric hoods (IEC 60335-2-99:2003/am1:2017; EN 60335-2-99:2003/A1:2019)

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

HRN HD 60364-8-1:2019 en pr
Niskonaponske električne instalacije – Dio 8-1: Funkcionalni aspekti – Energetska učinkovitost (IEC 60364-8-1:2019; HD 60364-8-1:2019)
Low-voltage electrical installations – Part 8-1: Functional aspects – Energy efficiency (IEC 60364-8-1:2019; HD 60364-8-1:2019)

HRN HD 60364-8-1:2019/lsp.1:2019 en pr
Niskonaponske električne instalacije – Dio 8-1: Funkcionalni aspekti – Energetska učinkovitost (IEC 60364-8-1:2019/Corr.1:2019; HD 60364-8-1:2019/AC:2019)
Low-voltage electrical installations – Part 8-1: Functional aspects – Energy efficiency (IEC 60364-8-1:2019/Corr.1:2019; HD 60364-8-1:2019/AC:2019)

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

- HRN EN IEC 61131-10:2019 en pr
Programmable controllers – Part 10: PLC open XML exchange format (IEC 61131-10:2019; EN IEC 61131-10:2019)
- HRN EN IEC 61158-3-12:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-12: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-3-12:2019; EN IEC 61158-3-12:2019)
Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements (IEC 61158-3-12:2019; EN IEC 61158-3-12:2019)
- HRN EN IEC 61158-3-19:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-19: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-3-19:2019; EN IEC 61158-3-19:2019)
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements (IEC 61158-3-19:2019; EN IEC 61158-3-19:2019)
- HRN EN IEC 61158-3-21:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-21: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 21 (IEC 61158-3-21:2019; EN IEC 61158-3-21:2019)
Industrial communication networks – Fieldbus specifications – Part 3-21: Data-link layer service definition – Type 21 elements (IEC 61158-3-21:2019; EN IEC 61158-3-21:2019)
- HRN EN IEC 61158-3-2:2015/A1:2019 en pr
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/am1:2019; EN 61158-3-2:2014/A1:2019)
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements (IEC 61158-3-2:2014/am1:2019; EN 61158-3-2:2014/A1:2019)
- HRN EN IEC 61158-3-25:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-25: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 25 (IEC 61158-3-25:2019; EN IEC 61158-3-25:2019)
Industrial communication networks – Fieldbus specifications – Part 3-25: Data-link layer service definition – Type 25 elements (IEC 61158-3-25:2019; EN IEC 61158-3-25:2019)
- HRN EN IEC 61158-3-4:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 3-4: Definicija usluge sloja podatkovne veze OSI referentnog modela – Elementi tipa 4 (IEC 61158-3-4:2019; EN IEC 61158-3-4:2019)
Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements (IEC 61158-3-4:2019; EN IEC 61158-3-4:2019)
- HRN EN IEC 61158-4-12:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-12: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 12 (IEC 61158-4-12:2019; EN IEC 61158-4-12:2019)
Industrial communication networks – Fieldbus specifications – Part 4-12: Data-link layer protocol specification – Type 12 elements (IEC 61158-4-12:2019; EN IEC 61158-4-12:2019)
- HRN EN IEC 61158-4-19:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-19: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 19 (IEC 61158-4-19:2019; EN IEC 61158-4-19:2019)
Industrial communication networks – Fieldbus specifications – Part 4-19: Data-link layer protocol specification – Type 19 elements (IEC 61158-4-19:2019; EN IEC 61158-4-19:2019)
- HRN EN IEC 61158-4-21:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-21: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 21 (IEC 61158-4-21:2019; EN IEC 61158-4-21:2019)
Industrial communication networks – Fieldbus specifications – Part 4-21: Data-link layer protocol specification – Type 21 elements (IEC 61158-4-21:2019; EN IEC 61158-4-21:2019)
- HRN EN IEC 61158-4-2:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-2: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 2 (IEC 61158-4-2:2019; EN IEC 61158-4-2:2019)
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements (IEC 61158-4-2:2019; EN IEC 61158-4-2:2019)
- HRN EN IEC 61158-4-24:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-24: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 24 (IEC 61158-4-24:2019; EN IEC 61158-4-24:2019)
Industrial communication networks – Fieldbus specifications – Part 4-24: Data-link layer protocol specification – Type 24 elements (IEC 61158-4-24:2019; EN IEC 61158-4-24:2019)
- HRN EN IEC 61158-4-25:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-25: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 25 (IEC 61158-4-25:2019; EN IEC 61158-4-25:2019)
Industrial communication networks – Fieldbus specifications – Part 4-25: Data-link layer protocol specification – Type 25 elements (IEC 61158-4-25:2019; EN IEC 61158-4-25:2019)
- HRN EN IEC 61158-4-3:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-3: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 3 (IEC 61158-4-3:2019; EN IEC 61158-4-3:2019)
Industrial communication networks – Fieldbus specifications – Part 4-3: Data-link layer protocol specification – Type 3 elements (IEC 61158-4-3:2019; EN IEC 61158-4-3:2019)
- HRN EN IEC 61158-4-4:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 4-4: Specifikacija protokola sloja podatkovne veze OSI referentnog modela – Elementi tipa 4 (IEC 61158-4-4:2019; EN IEC 61158-4-4:2019)
Industrial communication networks – Fieldbus specifications – Part 4-4: Data-link layer protocol specification – Type 4 elements (IEC 61158-4-4:2019; EN IEC 61158-4-4:2019)
- HRN EN IEC 61158-5-10:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-10: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 10 (IEC 61158-5-10:2019; EN IEC 61158-5-10:2019)
Industrial communication networks – Fieldbus specifications – Part 5-10: Application layer service definition – Type 10 elements (IEC 61158-5-10:2019; EN IEC 61158-5-10:2019)
- HRN EN IEC 61158-5-12:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-12: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 12 (IEC 61158-5-12:2019; EN IEC 61158-5-12:2019)
Industrial communication networks – Fieldbus specifications – Part 5-12: Application layer service definition – Type 12 elements (IEC 61158-5-12:2019; EN IEC 61158-5-12:2019)
- HRN EN IEC 61158-5-19:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-19: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 19 (IEC 61158-5-19:2019; EN IEC 61158-5-19:2019)
Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements (IEC 61158-5-19:2019; EN IEC 61158-5-19:2019)
- HRN EN IEC 61158-5-21:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-21: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 21 (IEC 61158-5-21:2019; EN IEC 61158-5-21:2019)
Industrial communication networks – Fieldbus specifications – Part 5-21: Application layer service definition – Type 21 elements (IEC 61158-5-21:2019; EN IEC 61158-5-21:2019)
- HRN EN IEC 61158-5-2:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-2: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 2 (IEC 61158-5-2:2019; EN IEC 61158-5-2:2019)
Industrial communication networks – Fieldbus specifications – Part 5-2: Application layer service definition – Type 2 elements (IEC 61158-5-2:2019; EN IEC 61158-5-2:2019)

HRN EN IEC 61158-5-23:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-23: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 23 (IEC 61158-5-23:2019; EN IEC 61158-5-23:2019)
Industrial communication networks – Fieldbus specifications – Part 5-23: Application layer service definition – Type 23 elements (IEC 61158-5-23:2019; EN IEC 61158-5-23:2019)

HRN EN IEC 61158-5-25:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-25: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 25 (IEC 61158-5-25:2019; EN IEC 61158-5-25:2019)
Industrial communication networks – Fieldbus specifications – Part 5-25: Application layer service definition – Type 25 elements (IEC 61158-5-25:2019; EN IEC 61158-5-25:2019)

HRN EN IEC 61158-5-26:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-26: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 26 (IEC 61158-5-26:2019; EN IEC 61158-5-26:2019)
Industrial communication networks – Fieldbus specifications – Part 5-26: Application layer service definition – Type 26 elements (IEC 61158-5-26:2019; EN IEC 61158-5-26:2019)

HRN EN IEC 61158-5-4:2019 en pr
Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – Dio 5-4: Definicija usluge aplikacijskog sloja OSI referentnog modela – Elementi tipa 4 (IEC 61158-5-4:2019; EN IEC 61158-5-4:2019)
Industrial communication networks – Fieldbus specifications – Part 5-4: Application layer service definition – Type 4 elements (IEC 61158-5-4:2019; EN IEC 61158-5-4:2019)

HRN EN IEC 62881:2018/Ispr.1:2019 en pr
Tablica uzroka i posljedica (IEC 62881:2018/Corr.1:2019; EN IEC 62881:2018/AC:2019)
Cause and Effect Matrix (IEC 62881:2018/Corr.1:2019; EN IEC 62881:2018/AC:2019)

HZN/TO E69, Cestovna i industrijska električna vozila

HRN EN IEC 61851-1:2019 en pr
Sustav kontaktnog punjenja električnih vozila – 1. dio: Opći zahtjevi (IEC 61851-1:2017; EN IEC 61851-1:2019)
Electric vehicle conductive charging system – Part 1: General requirements (IEC 61851-1:2017; EN IEC 61851-1:2019)

HZN/TO E88, Vjetroagregati

HRN EN IEC 61400-21-1:2019 en pr
Sustavi za proizvodnju energije iz vjetra – Dio 21-1: Mjerenje i procjena električnih karakteristika – Vjetroagregati (IEC 61400-21-1:2019; EN IEC 61400-21-1:2019)
Wind energy generation systems – Part 21-1: Measurement and assessment of electrical characteristics – Wind turbines (IEC 61400-21-1:2019; EN IEC 61400-21-1:2019)

HRN EN IEC 61400-26-1:2019 en pr
Sustavi za proizvodnju energije iz vjetra – Dio 26-1: Dostupnost za sustave za proizvodnju energije iz vjetra (IEC 61400-26-1:2019; EN IEC 61400-26-1:2019)
Wind energy generation systems – Part 26-1: Availability for wind energy generation systems (IEC 61400-26-1:2019; EN IEC 61400-26-1:2019)

HZN/TO E106, Elektromagnetska polja u ljudskome okolišu

HRN EN 62209-2:2010/A1:2019 en pr
Izloženost ljudi radiofrekvencijskim poljima ručnih uređaja i uređaja za bežičnu komunikaciju postavljenih na tijelo – Modeli ljudskog tijela, instrumenti i postupci – 2. dio: Postupak određivanja gustoće apsorbirane snage (SAR) za bežične komunikacijske uređaje koji se koriste u neposrednoj blizini ljudskog tijela (frekvencijski raspon od 30 MHz do 6 GHz) (IEC 62209-2:2010/am1:2019; EN 62209-2:2010/A1:2019)
Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) (IEC 62209-2:2010/am1:2019; EN 62209-2:2010/A1:2019)

HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama

HRN EN IEC 55016-1-1:2019 en pr
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 1-1: Uređaji za mjerenje radiosmetnja i otpornosti – Mjerni uređaji (CISPR 16-1-1:2019; EN IEC 55016-1-1:2019)
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus (CISPR 16-1-1:2019; EN IEC 55016-1-1:2019)

HRN EN IEC 61000-4-18:2019 en pr
Elektromagnetska kompatibilnost (EMC) – Dio 4-18: Ispitne i mjerne tehnike – Ispitivanje otpornosti na prigušene oscilirajuće valove (IEC 61000-4-18:2019; EN IEC 61000-4-18:2019)
Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test (IEC 61000-4-18:2019; EN IEC 61000-4-18:2019)

HZN/TO E502, Elektrotehnički aspekti telekomunikacijske opreme

HRN EN 50600-1:2019 en pr
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – 1. dio: Opći koncepti (EN 50600-1:2019)
Information technology – Data centre facilities and infrastructures – Part 1: General concepts (EN 50600-1:2019)

HRN EN 50600-2-2:2019 en pr
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 2-2: Opskrba električnom energijom (EN 50600-2-2:2019)
Information technology – Data centre facilities and infrastructures – Part 2-2: Power supply and distribution (EN 50600-2-2:2019)

HRN EN 50600-2-3:2019 en pr
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 2-3: Kontrola okoline (EN 50600-2-3:2019)
Information technology – Data centre facilities and infrastructures – Part 2-3: Environmental control (EN 50600-2-3:2019)

HRN CLC/TR 50600-99-1:2019 en pr
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 99-1: Preporučene prakse upravljanja energijom (CLC/TR 50600-99-1:2019)
Information technology – Data centre facilities and infrastructures – Part 99-1: Recommended practices for energy management (CLC/TR 50600-99-1:2019)

HZN/TO T4, Normizacija u telekomunikacijama

HRN EN 300 674-2-2 V2.2.1:2019 en pr
Telematika cestovnog prijevoza i prometa (TTT) – Komunikacijska oprema kratkoga dometa (DSRC) za prijenos signala brzinama (500 kbit/s/250 kbit/s) koja radi u pojasu od 5 795 MHz do 5 815 MHz – 2. dio: Harmonizirana norma za pristup radijskom spektru – 2. poddio: Jedinice na vozilu (OBU) (EN 300 674-2-2 V2.2.1:2019)
Transport and Traffic Telematics (TTT) – Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5 795 MHz to 5 815 MHz frequency band – Part 2: Harmonised Standard for access to radio spectrum – Sub-part 2: On-Board Units (OBU) (EN 300 674-2-2 V2.2.1:2019)

HRN EN 301 841-2 V1.2.1:2019 en pr
VHF digitalna veza (VDL) zrak-tlo mod 2 – Tehničke značajke i metode mjerenja za opremu smještenu na tlu – 2. dio: Gornji slojevi (EN 301 841-2 V1.2.1:2019)
VHF air-ground Digital Link (VDL) Mode 2 – Technical characteristics and methods of measurement for ground-based equipment – Part 2: Upper layers (EN 301 841-2 V1.2.1:2019)

HRN EN 302 636-5-1 V2.2.1:2019 en pr
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Geomrežavanje – 5. dio: Transportni protokoli – 1. poddio: Bazični transportni protokol (EN 302 636-5-1 V2.2.1:2019)
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 5: Transport Protocols – Sub-part 1: Basic Transport Protocol (EN 302 636-5-1 V2.2.1:2019)

HRN EN 302 890-1 V1.2.1:2019 en pr
Inteligentni transportni sustavi (ITS) – Funkcija sloja dodatnih usluga – 1. dio: Specifikacija objave servisa (SA) (EN 302 890-1 V1.2.1:2019)
Intelligent Transport Systems (ITS) – Facilities layer function – Part 1: Services Announcement (SA) specification (EN 302 890-1 V1.2.1:2019)

HRN EN 303 345-1 V1.1.1:2019 en pr
Radiodifuzni audio prijammnici – 1. dio: Generički zahtjevi i metode mjerenja (EN 303 345-1 V1.1.1:2019)
Broadcast Sound Receivers – Part 1: Generic requirements and measuring methods (EN 303 345-1 V1.1.1:2019)

HRN EN 303 520 V1.2.1:2019 en pr
Uređaji kratkog dometa (SRD) – Bežične medicinske endoskopske kapsule jako male snage (ULP) koje rade u pojasu od 430 MHz do 440 MHz – Harmonizirana norma za pristup radijskom spektru (EN 303 520 V1.2.1:2019)
Short Range Devices (SRD) – Ultra Low Power (ULP) wireless medical capsule endoscopy devices operating in the band 430 MHz to 440 MHz – Harmonised Standard for access to radio spectrum (EN 303 520 V1.2.1:2019)

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

HRN EN 686:2019 en pr
Elastične podne obloge – Specifikacija za linoleum sa ili bez uzorka na pjenastoj podlozi (EN 686:2019)
Resilient floor coverings – Specification for plain and decorative linoleum on a foam backing (EN 686:2019)

HRN EN ISO 10833:2019 en pr
Tekstilne podne obloge – Određivanje otpornosti na oštećivanje odreznih rubova ispitivanjem modificiranim Vettermannovim bubnjem (ISO 10833:2017; EN ISO 10833:2019)
Textile floor coverings – Determination of resistance to damage at cut edges using the modified Vettermann drum test (ISO 10833:2017; EN ISO 10833:2019)

HRN EN ISO 16581:2019 en pr
Elastične i laminatne podne obloge – Određivanje utjecaja simuliranog pomicanja noge namještaja (ISO 16581:2014; EN ISO 16581:2019)
Resilient and laminate floor coverings – Determination of the effect of simulated movement of a furniture leg (ISO 16581:2014; EN ISO 16581:2019)

HRN EN 17226:2019 en pr
Usluge salona za uljepšavanje – Zahtjevi i preporuke za pružanje usluga (EN 17226:2019)
Beauty Salon Services – Requirements and recommendations for the provision of service (EN 17226:2019)

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

HRN EN ISO 1518-1:2019 en pr
Boje i lakovi – Određivanje otpornosti na grebenje – 1. dio: Metoda konstantnog opterećenja (ISO 1518-1:2019; EN ISO 1518-1:2019)
Paints and varnishes – Determination of scratch resistance – Part 1: Constant-loading method (ISO 1518-1:2019; EN ISO 1518-1:2019)

HRN EN ISO 1518-2:2019 en pr
Boje i lakovi – Određivanje otpornosti na grebenje – 2. dio: Metoda promjenjivog opterećenja (ISO 1518-2:2019; EN ISO 1518-2:2019)
Paints and varnishes – Determination of scratch resistance – Part 2: Variable-loading method (ISO 1518-2:2019; EN ISO 1518-2:2019)

HRN EN ISO 3251:2019 en pr
Boje, lakovi i plastike – Određivanje sadržaja nehlapivih tvari (ISO 3251:2019; EN ISO 3251:2019)
Paints, varnishes and plastics – Determination of non-volatile-matter content (ISO 3251:2019; EN ISO 3251:2019)

HRN EN ISO 6504-1:2019 en pr
Boje i lakovi – Određivanje pokrivne moći – 1. dio: Kubelka-Munkova metoda za bijele i svijetle boje (ISO 6504-1:2019; EN ISO 6504-1:2019)
Paints and varnishes – Determination of hiding power – Part 1: Kubelka-Munk method for white and light-coloured paints (ISO 6504-1:2019; EN ISO 6504-1:2019)

HRN EN ISO 9167:2019 en pr
Repičino sjeme i repičina pogača – Određivanje udjela glukozinolata – Metoda tekućinske kromatografije visokog učinka (ISO 9167:2019; EN ISO 9167:2019)
Rapeseed and rapeseed meals – Determination of glucosinolates content – Method using high-performance liquid chromatography (ISO 9167:2019; EN ISO 9167:2019)

HRN EN ISO 9514:2019 en pr
Boje i lakovi – Određivanje uporabnog vremena mješavine višekomponentnih prekrivnih sustava – Priprema i kondicioniranje uzoraka i smjernice za ispitivanje (ISO 9514:2019; EN ISO 9514:2019)
Paints and varnishes – Determination of the pot life of multicomponent coating systems – Preparation and conditioning of samples and guidelines for testing (ISO 9514:2019; EN ISO 9514:2019)

HRN EN ISO 16014-5:2019 en pr
Plastika – Određivanje prosječne molekularne mase i distribucije molekularne mase polimera pomoću kromatografije isključenjem na osnovi veličine čestica – 5. dio: Metoda raspršenja svjetlosti (ISO 16014-5:2019; EN ISO 16014-5:2019)
Plastics – Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography – Part 5: Light-scattering method (ISO 16014-5:2019; EN ISO 16014-5:2019)

HRN EN ISO 29862:2019 en pr
Samoljepive trake – Određivanje piling svojstava prijanjanja (ISO 29862:2018; EN ISO 29862:2019)
Self adhesive tapes – Determination of peel adhesion properties (ISO 29862:2018; EN ISO 29862:2019)

HRN EN ISO 29863:2019 en pr
Samoljepive trake – Mjerenje statičkog smicanja prijanjanja (ISO 29863:2018; EN ISO 29863:2019)
Self adhesive tapes – Measurement of static shear adhesion (ISO 29863:2018; EN ISO 29863:2019)

HRN EN ISO 29864:2019 en pr
Samoljepive trake – Mjerenje čvrstoće pucanja i produženja na mjestu pucanju (ISO 29864:2018; EN ISO 29864:2019)
Self adhesive tapes – Measurement of breaking strength and elongation at break (ISO 29864:2018; EN ISO 29864:2019)

HZN/TU I2, Strojarstvo 2

HRN EN ISO 12183:2019 en pr
Nuclear fuel technology – Controlled-potential coulometric assay of plutonium (ISO 12183:2016; EN ISO 12183:2019)

HRN EN ISO 12799:2019 en pr
Nuclear energy – Determination of nitrogen content in UO₂, (U, Gd)O₂ and (U, Pu)O₂ sintered pellets – Inert gas extraction and conductivity detection method (ISO 12799:2015; EN ISO 12799:2019)

HRN EN ISO 12800:2019 en pr
Nuclear fuel technology – Guidelines on the measurement of the specific surface area of uranium oxide powders by the BET method (ISO 12800:2017; EN ISO 12800:2019)

HRN EN ISO 16637:2019 en pr
Radiological protection – Monitoring and internal dosimetry for staff members exposed to medical radionuclides as unsealed sources (ISO 16637:2016; EN ISO 16637:2019)

HRN EN ISO 16639:2019 en pr
Surveillance of the activity concentrations of airborne radioactive substances in the workplace of nuclear facilities (ISO 16639:2017; EN ISO 16639:2019)

HRN EN ISO 16645:2019 en pr
Radiological protection – Medical electron accelerators – Requirements and recommendations for shielding design and evaluation (ISO 16645:2016; EN ISO 16645:2019)

HRN EN ISO 18417:2019 en pr
Iodine charcoal sorbents for nuclear facilities – Method for defining sorption capacity index (ISO 18417:2017; EN ISO 18417:2019)

HRN EN ISO 21484:2019 en pr
Nuclear Energy – Fuel technology – Determination of the O/M ratio in MOX pellets by the gravimetric method (ISO 21484:2017; EN ISO 21484:2019)

HRN EN ISO 22765:2019 en pr
Nuclear fuel technology – Sintered (U, Pu)O₂ pellets
– Guidance for ceramographic preparation for microstructure
examination (ISO 22765:2016; EN ISO 22765:2019)

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

HRN EN ISO 4049:2019 en pr
Stomatologija – Restorativni materijali na bazi polimera
(ISO 4049:2019; EN ISO 4049:2019)
Dentistry – Polymer-based restorative materials (ISO 4049:2019;
EN ISO 4049:2019)

HRN EN ISO 27020:2019 en pr
Stomatologija – Bravice i tubusi za upotrebu u ortodontiji
(ISO 27020:2019; EN ISO 27020:2019)
Dentistry – Brackets and tubes for use in orthodontics
(ISO 27020:2019; EN ISO 27020:2019)

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

HRN EN 2114:2019 en pr
Zrakoplovstvo – Aluminij 1050A-H14 – Žica za čvrste zakovice
– $D \leq 10$ mm (EN 2114:2019)
Aerospace series – Aluminium 1050A-H14 – Wire for solid
rivets – $D \leq 10$ mm (EN 2114:2019)

HRN EN 2510:2019 en pr
Zrakoplovstvo – Legura aluminija 2024 – T42 – Vučene cijevi
za konstrukcijske primjene (EN 2510:2019)
Aerospace series – Aluminium alloy 2024 – T42 – Drawn
tubes for structural applications (EN 2510:2019)

HRN EN 2566:2019 en pr
Zrakoplovstvo – Fluorougljična guma (FKM) – Tvrdća 70
IRHD (EN 2566:2019)
Aerospace series – Fluorocarbon rubber (FKM) – Hardness
70 IRHD (EN 2566:2019)

HRN EN 2567:2019 en pr
Zrakoplovstvo – Fluorougljična guma (FKM) – Tvrdća 80
IRHD (EN 2567:2019)
Aerospace series – Fluorocarbon rubber (FKM) – Hardness
80 IRHD (EN 2567:2019)

HRN EN 2568:2019 en pr
Zrakoplovstvo – Fluorougljična guma (FKM) – Tvrdća 90
IRHD (EN 2568:2019)
Aerospace series – Fluorocarbon rubber (FKM) – Hardness
90 IRHD (EN 2568:2019)

HRN EN 2638:2019 en pr
Zrakoplovstvo – Legura aluminija 2024 – T3 – Ekstrudirana
šipka i profil – $1,2 \text{ mm} \leq (a \text{ ili } D) \leq 150 \text{ mm}$ s vanjskom grubom
kontrolom zrna (EN 2638:2019)
Aerospace series – Aluminium alloy 2024 – T3 – Extruded
bar and section – $1,2 \text{ mm} \leq (a \text{ or } D) \leq 150 \text{ mm}$ with coarse
peripheral grain control (EN 2638:2019)

HRN EN 2798:2019 en pr
Zrakoplovstvo – Fluorougljična guma (FKM) – Nizak indeks
slijeganja – Tvrdća 80 IRHD (EN 2798:2019)
Aerospace series – Fluorocarbon rubber (FKM) – Low
compressions set – Hardness 80 IRHD (EN 2798:2019)

HRN EN 2812:2019 en pr
Zrakoplovstvo – Skidanje izolacije električnih kabela
(EN 2812:2019)
Aerospace series – Stripping of electric cables (EN 2812:2019)

HRN EN 2951:2019 en pr
Zrakoplovstvo – Metalni materijali – Mikrografsko određivanje
sadržaja nemetalnih uključaka (EN 2951:2019)
Aerospace series – Metallic materials – Micrographic
determination of content of non-metallic inclusions
(EN 2951:2019)

HRN EN 2959:2019 en pr
Zrakoplovstvo – Legura otporna na toplinu NI-PH1302
(NiCr20Co13Mo4Ti3Al) – Obradena otopinom i hladno obradena
– Šipke za kovane spojne elemente – $3 \text{ mm} \leq D \leq 30 \text{ mm}$
(EN 2959:2019)
Aerospace series – Heat resisting alloy NI-PH1302
(NiCr20Co13Mo4Ti3Al) – Solution treated and cold
worked – Bar for forged fasteners – $3 \text{ mm} \leq D \leq 30 \text{ mm}$
(EN 2959:2019)

HRN EN 3001:2019 en pr
Zrakoplovstvo – Kaljeni slojevi float stakla za primjenu u
zrakoplovstvu – Tehnička specifikacija (EN 3001:2019)
Aerospace series – Tempered float glass plies for aircraft
applications – Technical specification (EN 3001:2019)

HRN EN 3086:2019 en pr
Zrakoplovstvo – Cijevni sklopovi – Označavanje ograničeno
na 15 znakova (EN 3086:2019)
Aerospace series – Hose assemblies – Designation limited to
15 digits (EN 3086:2019)

HRN EN 3155-014:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u
elementima za povezivanje – Dio 014: Kontakti, električni,
muški, tip A, za krimpanje, razreda S – Norma za proizvod
(EN 3155-014:2019)
Aerospace series – Electrical contacts used in elements of
connection – Part 014: Contacts, electrical, male, type A,
crimp, class S – Product standard (EN 3155-014:2019)

HRN EN 3155-015:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u
elementima za povezivanje – Dio 015: Kontakti, električni,
ženski, tip A, za krimpanje, razreda S – Norma za proizvod
(EN 3155-015:2019)
Aerospace series – Electrical contacts used in elements of
connection – Part 015: Contacts, electrical, female, type A,
crimp, class S – Product standard (EN 3155-015:2019)

HRN EN 3155-078:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u
elementima za povezivanje – Dio 078: Kontakti veličine 22
za normu EN 2997, električni, muški, tip A, za krimpanje,
razreda S – Norma za proizvod (EN 3155-078:2019)
Aerospace series – Electrical contacts used in elements of
connection – Part 078: Contacts size 22 for EN 2997,
electrical, male, type A, crimp, class S – Product standard
(EN 3155-078:2019)

HRN EN 3155-082:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u
elementima za povezivanje – Dio 082: Kontakti, električni,
ženski, tip A, za krimpanje, razreda S – Norma za proizvod
(EN 3155-082:2019)
Aerospace series – Electrical contacts used in elements of
connection – Part 082: Contacts, electrical, female, type A,
crimp, class S – Product standard (EN 3155-082:2019)

HRN EN 3357:2019 en pr
Zrakoplovstvo – Čelik FE-PM1503 (X3CrNiMoAl 13-8-2)
– Topljen vakuumskom indukcijom i pretopljen s
toplijom elektrodom – Obraden otopinom i precipitatom
– Šipke za strojnu obradu – a ili $D \leq 150 \text{ mm}$
– $1\ 200 \text{ MPa} \leq R_m \leq 1\ 400 \text{ MPa}$ (EN 3357:2019)
Aerospace series – Steel FE-PM1503 (X3CrNiMoAl 13-8-2)
– Vacuum induction melted and consumable electrode
remelted – Solution treated and precipitation treated – Bar for
machining – a or $D \leq 150 \text{ mm}$ – $1\ 200 \text{ MPa} \leq R_m \leq 1\ 400 \text{ MPa}$
(EN 3357:2019)

HRN EN 3378:2019 en pr
Zrakoplovstvo – Titanij TI-P99002 – Žareni – Žica za zakovice
– $1,6 \text{ mm} \leq D \leq 10 \text{ mm}$ (EN 3378:2019)
Aerospace series – Titanium TI-P99002 – Annealed – Wire for
rivets – $1,6 \text{ mm} \leq D \leq 10 \text{ mm}$ (EN 3378:2019)

HRN EN 3460:2019 en pr
Zrakoplovstvo – Titanij TI-P99002 – Žareni – Šipke za strojnu
obradu – a ili $D \leq 150 \text{ mm}$ – $R_m \geq 390 \text{ MPa}$ (EN 3460:2019)
Aerospace series – Titanium TI-P99002 – Annealed
– Bar for machining – a or $D \leq 150 \text{ mm}$ – $R_m \geq 390 \text{ MPa}$
(EN 3460:2019)

HRN EN 3475-418:2019 en pr
Zrakoplovstvo – Električni kabeli za upotrebu u zrakoplovstvu
– Metode ispitivanja – 418. dio: Toplinska izdržljivost vodiča
(EN 3475-418:2019)
Aerospace series – Cables, electrical, aircraft use – Test
methods – Part 418: Thermal endurance for conductors
(EN 3475-418:2019)

- HRN EN 3645-005:2019 en pr
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 005: Utičnica, bez dotoka zraka, okrugla priрубnica, ugradnja lemljenjem – Norma za proizvod (EN 3645-005:2019)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 005: Receptacle, hermetic, round flange, solder mounting – Product standard (EN 3645-005:2019)
- HRN EN 3645-010:2019 en pr
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 010: Utičnica, bez dotoka zraka, okrugla priрубnica, ugradnja s kontra maticom – Norma za proizvod (EN 3645-010:2019)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 010: Receptacle, hermetic, round flange, jam nut mounting – Product standard (EN 3645-010:2019)
- HRN EN 3645-013:2019 en pr
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 013: Prazne utičnice – Norma za proizvod (EN 3645-013:2019)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 013: Dummy receptacle – Product standard (EN 3645-013:2019)
- HRN EN 3660-001:2019 en pr
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 001: Tehnička specifikacija (EN 3660-001:2019)
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 001: Technical specification (EN 3660-001:2019)
- HRN EN 3818:2019 en pr
Zrakoplovstvo – Vijci, MJ navoji, od legure titana TI-P64001 – Razred snage: 1100 MPa (pri temperaturi okoline) – Tehnička specifikacija (EN 3818:2019)
Aerospace series – Bolts, MJ threads, in titanium alloy TI-P64001 – Strength class: 1 100 MPa (at ambient temperature) – Technical specification (EN 3818:2019)
- HRN EN 4529-002:2019 en pr
Zrakoplovstvo – Elementi električne i optičke veze – Utikač za brtvljenje – Dio 002: Indeks norme za proizvod (EN 4529-002:2019)
Aerospace series – Elements of electrical and optical connection – Sealing plugs – Part 002: Index of product standards (EN 4529-002:2019)
- HRN EN 4604-001:2019 en pr
Zrakoplovstvo – Kabel, električni, za prijenos signala – Dio 001: Tehnička specifikacija (EN 4604-001:2019)
Aerospace series – Cable, electrical, for signal transmission – Part 001: Technical specification (EN 4604-001:2019)
- HRN EN 4608-001:2019 en pr
Zrakoplovstvo – Kabel, električni, otporan na vatru – Jednostruka i višestruka upletena jezgra, oklopljeni (opleteni) i obloženi – Radna temperatura između -65 °C i 260 °C – Dio 001: Tehnička specifikacija (EN 4608-001:2019)
Aerospace series – Cable, electrical, fire resistant – Single and twisted multicore assembly, screened (braided) and jacketed – Operating temperatures between -65 °C and 260 °C – Part 001: Technical specification (EN 4608-001:2019)
- HRN EN 4681-005:2019 en pr
Zrakoplovstvo – Električni kabeli opće namjene s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 005: AZ porodica, jednožilni, za upotrebu u atmosferi niskog tlaka – Norma za proizvod (EN 4681-005:2019)
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 005: AZ family, single, for use in low pressure atmosphere – Product standard (EN 4681-005:2019)
- HRN EN 4681-006:2019 en pr
Zrakoplovstvo – Električni kabeli opće namjene s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 006: AZA porodica, jednožilni i višežilni sklop, za upotrebu u atmosferi niskog tlaka – Norma za proizvod (EN 4681-006:2019)
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 006: AZA family, single and multicore assembly, for use in low pressure atmosphere – Product standard (EN 4681-006:2019)
- HRN EN 4706:2019 en pr
Zrakoplovstvo – Rangiranje boja i svjetline svjetlećih dioda (EN 4706:2019)
Aerospace series – LED colour and brightness ranking (EN 4706:2019)
- HRN EN 4708-001:2019 en pr
Zrakoplovstvo – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – Dio 001: Tehnička specifikacija (EN 4708-001:2019)
Aerospace series – Sleeving, heat-shrinkable, for binding, insulation and identification – Part 001: Technical specification (EN 4708-001:2019)
- HRN EN 4708-103:2019 en pr
Zrakoplovstvo – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 103. dio: Fluoroelastomerne navlake – Radne temperature -55 °C do 200 °C – Norma za proizvod (EN 4708-103:2019)
Aerospace series – Sleeving, heat-shrinkable, for binding, insulation and identification – Part 103: Fluoroelastomer sleeves – Operating temperature -55 °C to 200 °C – Product standard (EN 4708-103:2019)
- HRN EN 4838-005:2019 en pr
Zrakoplovstvo – Automatski osigurači za prekid električnog luka, jednopolni, temperaturno kompenzirani, nazivnih struja 3 A do 25 A – Konstantne frekvencije 115 V a.c. 400 Hz – Dio 005: Norma za proizvod (EN 4838-005:2019)
Aerospace series – Arc fault circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A – 115 V a.c. 400 Hz Constant Frequency – Part 005: With polarized signal contact – Product standard (EN 4838-005:2019)
- HRN EN 4842:2019 en pr
Zrakoplovstvo – X5CrNiCu15-5 (1.4545) – Pretopljen s topljivom elektrodom (ESR ili VAR) – Obraden otopinom i precipitatom (H1025) – Šipke za strojnu obradu – a ili D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Vrhunska kvaliteta (pq) (EN 4842:2019)
Aerospace series – X5CrNiCu15-5 (1.4545) – Consumable electrode remelted (ESR or VAR) – Solution treated and precipitation treated (H1025) – Bar for machining – a or D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Premium quality (pq) (EN 4842:2019)
- HRN EN 4852:2019 en pr
Zrakoplovstvo – Vanjske spiralne pogonske glave za navojne spojne elemente – Geometrijska definicija i konfiguracija ključa za glavu spojnog elementa (EN 4852:2019)
Aerospace series – External spiral drive heads for threaded fasteners – Geometrical definition and fastener head wrenching configuration (EN 4852:2019)
- HRN EN 4867:2019 en pr
Zrakoplovstvo – Označavanje površine laserom pomoću promjene boje (EN 4867:2019)
Aerospace series – Laser surface marking by discoloration (EN 4867:2019)
- HRN EN 6059-305:2019 en pr
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 305. dio: Apsorpcija tekućine (EN 6059-305:2019)
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 305: Fluid absorption (EN 6059-305:2019)
- HRN EN 6059-407:2019 en pr
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitne navlake – Metode ispitivanja – 407. dio: Oznaka prijanjanja i trajnost ispisa (EN 6059-407:2019)
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 407: Mark adherence and print permanence (EN 6059-407:2019)

HRN EN 16495:2019 en pr
Upravljanje zračnim prometom – Informacijska sigurnost za organizacije koje pružaju potporu u operacijama civilnog zrakoplovstva (EN 16495:2019)
Air Traffic Management – Information security for organisations supporting civil aviation operations (EN 16495:2019)

HRN EN 16604-10:2019 en pr
Održivost u svemiru – Zahtjevi za smanjivanje otpada u Zemljinoj orbiti (ISO 24113:2011, MOD; EN 16604-10:2019)
Space sustainability – Space debris mitigation requirements (ISO 24113:2011, MOD; EN 16604-10:2019)

HZN/TU U1, Opća elektrotehnika 1

HRN EN IEC 60974-1:2018/A1:2019 en pr
Oprema za elektrolučno zavarivanje – 1. dio: Izvori napajanja za zavarivanje (IEC 60974-1:2017/am1:2019; EN IEC 60974-1:2018/A1:2019)
Arc welding equipment – Part 1: Welding power sources (IEC 60974-1:2017/am1:2019; EN IEC 60974-1:2018/A1:2019)

HZN/TU V1, Elektronika 1

HRN EN 50411-3-4:2019 en pr
Fibre management systems and protective housings to be used in optical fibre communication systems – Product specifications – Part 3-4: Wall box for splice to patchcord connections, for category C and A (EN 50411-3-4:2019)

HRN EN 50411-4-1:2019 en pr
Fibre management systems and protective housings to be used in optical fibre communication systems – Product specifications – Part 4-1: Passive optical street cabinet for category A (EN 50411-4-1:2019)

HRN EN IEC 60068-2-82:2019 en pr
Environmental testing – Part 2-82: Tests – Test Xw1: Whisker test methods for components and parts used in electronic assemblies (IEC 60068-2-82:2019; EN IEC 60068-2-82:2019)

HRN EN IEC 60512-11-1:2019 en pr
Konektori za električnu i elektroničku opremu – Ispitivanja i mjerenja – Dio 11-1: Klimatska ispitivanja – Ispitivanje 11a – Klimatski niz (IEC 60512-11-1:2019; EN IEC 60512-11-1:2019)
Connectors for electrical and electronic equipment – Tests and measurements – Part 11-1: Climatic tests – Test 11a – Climatic sequence (IEC 60512-11-1:2019; EN IEC 60512-11-1:2019)

HRN EN IEC 60904-3:2019 en pr
Fotonaponski uređaji – 3. dio: Načela mjerenja za zemaljske fotonaponske (PV) solarne uređaje s referentnim podacima o spektralnom zračenju (IEC 60904-3:2019; EN IEC 60904-3:2019)
Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data (IEC 60904-3:2019; EN IEC 60904-3:2019)

HRN EN IEC 61188-6-4:2019 en pr
Printed boards and printed board assemblies – Design and use – Part 6-4: Land pattern design – Generic requirements for dimensional drawings of surface mounted components (SMD) from the viewpoint of land pattern design (IEC 61188-6-4:2019; EN IEC 61188-6-4:2019)

HRN EN 61291-5-2:2017/Ispr.1:2019 en pr
Optical amplifiers – Part 5-2: Qualification specifications – Reliability qualification for optical fibre amplifiers (IEC 61291-5-2:2017/Corr.1:2019; EN 61291-5-2:2017/AC:2019)

HRN EN IEC 61753-1:2018/Ispr.1:2019 en pr
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbene norme – 1. dio: Općenito i upute (IEC 61753-1:2018/Corr.1:2019; EN IEC 61753-1:2018/AC:2019)
Fibre optic interconnecting devices and passive components – Performance standard – Part 1: General and guidance (IEC 61753-1:2018/Corr.1:2019; EN IEC 61753-1:2018/AC:2019)

HRN EN IEC 62129-3:2019 en pr
Calibration of wavelength/optical frequency measurement instruments – Part 3: Optical frequency meters internally referenced to a frequency comb (IEC 62129-3:2019; EN IEC 62129-3:2019)

HRN EN IEC 62148-19:2019 en pr
Fibre optic active components and devices – Package and interface standards – Part 19: Photonic chip scale package (IEC 62148-19:2019; EN IEC 62148-19:2019)

HRN EN IEC 62812:2019 en pr
Mjerenja malog otpora – Metode i upute (IEC 62812:2019; EN IEC 62812:2019)
Low resistance measurements – Methods and guidance (IEC 62812:2019; EN IEC 62812:2019)

HRN EN IEC 62884-4:2019 en pr
Tehnike mjerenja piezoelektričnih, dielektričnih i elektrostatičnih oscilatora – 4. dio: Metode ispitivanja kratkotrajne stabilnosti frekvencije (IEC 62884-4:2019; EN IEC 62884-4:2019)
Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 4: Short-term frequency stability test methods (IEC 62884-4:2019; EN IEC 62884-4:2019)

HRN EN IEC 62892:2019 en pr
Prošireni toplinski ciklus fotonaponskih (PV) modula – Postupak ispitivanja (IEC 62892:2019; EN IEC 62892:2019)
Extended thermal cycling of PV modules – Test procedure (IEC 62892:2019; EN IEC 62892:2019)

HRN EN IEC 63093-12:2019 en pr
Feritne jezgre – Smjernice za dimenzije i granice površinskih nepravilnosti – 12. dio: Prstenaste jezgre (IEC 63093-12:2019; EN IEC 63093-12:2019)
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 12: Ring-cores (IEC 63093-12:2019; EN IEC 63093-12:2019)

HRN EN IEC 63093-14:2019 en pr
Feritne jezgre – Smjernice za dimenzije i granice površinskih nepravilnosti – 14. dio: EFD jezgre (IEC 63093-14:2019; EN IEC 63093-14:2019)
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 14: EFD-cores (IEC 63093-14:2019; EN IEC 63093-14:2019)

HZN/TU W1, Energetska elektrotehnika 1

HRN EN 45556:2019 en pr
Opća metoda za ocjenjivanje odnosa ponovno upotrijebljenih komponenata u proizvodima koji troše energiju (EN 45556:2019)
General method for assessing the proportion of reused components in energy-related products (EN 45556:2019)

HRN EN IEC 60086-4:2019 en pr
Primarne baterije – 4. dio: Sigurnost litijskih baterija (IEC 60086-4:2019; EN IEC 60086-4:2019)
Primary batteries-Part 4: Safety of lithium batteries (IEC 60086-4:2019; EN IEC 60086-4:2019)

HRN EN IEC 60193:2019 en pr
Hidraulične turbine, pumpe za spremnike i turbinske pumpe – Modelska prijamna ispitivanja (IEC 60193:2019; EN IEC 60193:2019)
Hydraulic turbines, storage pumps and pump-turbines – Model acceptance tests (IEC 60193:2019; EN IEC 60193:2019)

HRN EN IEC 60704-2-16:2019 en pr
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – Dio 2-16: Posebni zahtjevi za perlice-sušilice (IEC 60704-2-16:2019; EN IEC 60704-2-16:2019)
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-16: Particular requirements for washer-dryers (IEC 60704-2-16:2019; EN IEC 60704-2-16:2019)

HRN EN IEC 60879:2019 en pr
Sobni ventilatori i regulatori za kućne i slične namjene – Metode za mjerenje radnih značajki (IEC 60879:2019; EN IEC 60879:2019)
Comfort fans and regulators for household and similar purposes – Methods for measuring performance (IEC 60879:2019; EN IEC 60879:2019)

HRN EN IEC 61558-1:2019 en pr
Sigurnost energetskih transformatora, mrežnih opskrbnih jedinica, prigušnica i sličnih proizvoda – 1. dio: Opći zahtjevi i ispitivanja (IEC 61558-1:2017; EN IEC 61558-1:2019)
Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests (IEC 61558-1:2017; EN IEC 61558-1:2019)

HRN EN IEC 61820-1:2019 en pr
Električne instalacije za zemaljsko osvjetljenje u zrakoplovstvu, na uzletištima – 1. dio: Osnovna načela (IEC 61820-1:2019; EN IEC 61820-1:2019)
Electrical installations for aeronautical ground lighting at aerodromes – Part 1: Fundamental principles (IEC 61820-1:2019; EN IEC 61820-1:2019)

HRN EN IEC 62282-6-400:2019 en pr
Tehnologija gorivih članaka – Dio 6-400: Energetski sustavi s gorivim mikročlancima – Zamjenjivost snaga i podataka (IEC 62282-6-400:2019; EN IEC 62282-6-400:2019)
Fuel cell technologies – Part 6-400: Micro fuel cell power systems – Power and data interchangeability (IEC 62282-6-400:2019; EN IEC 62282-6-400:2019)

HRN EN 62841-3-12:2019 en pr
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 3-12: Posebni zahtjevi za prijenosne strojeve za rezanje navoja (IEC 62841-3-12:2017; EN 62841-3-12:2019)
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-12: Particular requirements for transportable threading machines (IEC 62841-3-12:2017; EN 62841-3-12:2019)

HRN EN 62841-4-2:2019 en pr
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 4-2: Posebni zahtjevi za kresalice (IEC 62841-4-2:2017, MOD; EN 62841-4-2:2019)
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-2: Particular requirements for hedge trimmers (IEC 62841-4-2:2017, MOD; EN 62841-4-2:2019)

1.3 Prijedlozi za prihvaćanje stranih norma iz izvorniku

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

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

HZN/TO 8, *Brodogradnja*

prEN ISO 8848 en
Small craft – Remote steering systems (ISO/DIS 8848:2019)
Mala plovila – Sustavi daljinskog kormilarenja (ISO/DIS 8848:2019)

prEN ISO 9093 en
Small craft – Seacocks and through-hull fittings (ISO/DIS 9093:2019)
Mala plovila – Oplatni ventili i prolazi (ISO/DIS 9093:2019)

HZN/TO 21, *Protupožarna i vatrogasna oprema*

prEN 14972-3 en
Fixed firefighting systems – Water mist systems – Part 3: Test protocol for office, school and hotel for automatic nozzle systems
Stabilni protupožarni sustavi – Sustavi vodene magle – 3. dio: Ispitni protokol za sustave s automatskim mlaznicama za urede, škole i hotele

prEN 15004-2 en
Fixed firefighting systems – Gas extinguishing systems – Part 2: Physical properties and system design of gas extinguishing systems for FK-5-1-12 extinguishant (ISO 14520-5:2016, MOD)
Stabilni protupožarni sustavi – Sustavi za gašenje plinom – 2. dio: Fizikalna svojstva i projektiranje sustava za gašenje plinom FK-5-1-12 (ISO 14520-5:2016, MOD)

prEN 15004-4 en
Fixed firefighting systems – Gas extinguishing systems – Part 4: Physical properties and system design of gas extinguishing systems for HFC 125 extinguishant (ISO 14520-8:2016, MOD)
Stabilni protupožarni sustavi – Sustavi za gašenje plinom – 4. dio: Fizikalna svojstva i projektiranje sustava za gašenje plinom HFC 125 (ISO 14520-8:2016, MOD)

prEN 15004-5 en
Fixed firefighting systems – Gas extinguishing systems – Part 5: Physical properties and system design of gas extinguishing systems for HFC 227ea extinguishant (ISO 15420-9:2016, MOD)
Stabilni protupožarni sustavi – Sustavi za gašenje plinom – 5. dio: Fizikalna svojstva i projektiranje sustava za gašenje plinom HFC 227ea (ISO 15420-9:2016, MOD)

prEN 15004-6 en
Fixed firefighting systems – Gas extinguishing systems – Part 6: Physical properties and system design of gas extinguishing systems for HFC 23 extinguishant (ISO 14520-10:2016, MOD)
Stabilni protupožarni sustavi – Sustavi za gašenje plinom – 6. dio: Fizikalna svojstva i projektiranje sustava za gašenje plinom HFC 23 (ISO 14520-10:2016, MOD)

prEN 17407 en
Portable equipment for projecting extinguishing agents supplied by firefighting pumps – Collecting heads and dividing breechings PN16
Prijenosna oprema za stvaranje i nanošenje sredstava za gašenje pomoću vatrogasnih pumpa – Sabirnice i razdjelnice PN16

HZN/TO 25, *Ljevarstvo*

prEN ISO 8062-3 en
Geometrical product specifications (GPS) – Dimensional and geometrical tolerances for moulded parts – Part 3: General dimensional and geometrical tolerances and machining allowances for castings (ISO/DIS 8062-3:2019)
Geometrijske specifikacije proizvoda (GPS) – Dopuštena odstupanja mjera i oblika dijelova oblikovanih u kalupima – 3. dio: Opća dopuštena odstupanja mjera i oblika i dodaci za strojnu obradu odljevaka (ISO/DIS 8062-3:2019)

HZN/TO 28, *Naftni proizvodi i maziva*

ISO 2714:2017 en
Liquid hydrocarbons – Volumetric measurement by displacement meter
Tekući ugljikovodici – Mjerenje obujma s pomoću mjerača protoka

ISO 2715:2017 en
Liquid hydrocarbons – Volumetric measurement by turbine flowmeter
Tekući ugljikovodici – Mjerenje obujma turbinskim mjernim sustavima

ISO 6578:2017 en
Refrigerated hydrocarbon liquids – Static measurement – Calculation procedure
Pothlađeni tekući ugljikovodici – Statičko mjerenje – Postupak izračunavanja

ISO 10976:2015 en
Refrigerated light hydrocarbon fluids – Measurement of cargoes on board LNG carriers
Pothlađene lake ugljikovodične tekućine – Mjerenje tereta na brodovima za UPP

ISO 12925-1:2018 en
Lubricants, industrial oils and related products (class L) – Family C (gears) – Part 1: Specifications for lubricants for enclosed gear systems
Maziva, industrijska ulja i srodni proizvodi (razred L) – Podrazred C (zupčanici) – 1. dio: Specifikacije maziva za podmazivanje zatvorenih zupčaničkih prijenosnika

ISO 15380:2016 en
Lubricants, industrial oils and related products (class L) – Family H (Hydraulic systems) – Specifications for hydraulic fluids in 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

HZN/TO 43, *Akustika*

prEN ISO 389-7 en
Acoustics – Reference zero for the calibration of audiometric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions (ISO/DIS 389-7:2019)
Akustika – Referentna razina za umjeravanje audiometara – 7. dio: Referentni prag čujnosti pri slušanju u slobodnome i difuznome polju (ISO/DIS 389-7:2019)

HZN/TO 44, Zavarivanje i srodni postupci

- prEN 17393 en
Thermal spraying – Tubular coating tensile test
Toplinsko naštrcavanje – Vlačno ispitivanje prevlake

HZN/TO 92, Zaštita od požara

- prEN ISO 1182 en
Reaction to fire tests for products – Non-combustibility test (ISO/DIS 1182:2019)
Ispitivanja reakcije na požar proizvoda – Ispitivanje negorivosti (ISO/DIS 1182:2019)

HZN/TO 120, Koža i obuća

- prEN ISO 17131 en
Leather – Identification of leather with microscopy (ISO/DIS 17131:2019)
Koža – Identifikacija kože s pomoću mikroskopije (ISO/DIS 17131:2019)

- prEN ISO 27587 en
Leather – Chemical tests – Determination of the free formaldehyde in process auxiliaries (ISO/DIS 27587:2019)
Koža – Kemijska ispitivanja – Određivanje slobodnog formaldehida u pomoćnim sredstvima za obradu (ISO/DIS 27587:2019)

HZN/TO 121, Anestetička i respiracijska oprema

- prEN ISO 23372 en
Respiratory therapy equipment: Air entrainment devices (ISO/DIS 23372:2019)

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

- prEN ISO 11298-4 en
Plastics piping systems for renovation of underground water supply networks – Part 4: Lining with cured-in-place pipes (ISO/DIS 11298-4:2019)

- prEN ISO 23856 en
Plastics piping systems for pressure and non-pressure water supply, drainage or sewerage – Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin (ISO/DIS 23856:2019)

HZN/TO 146, Kvaliteta zraka

- prEN 13725 en
Stationary source emissions – Determination of odour concentration by dynamic olfactometry and odour emission rate from stationary sources

HZN/TO 147, Kvaliteta vode

- prEN ISO 5667-1 en
Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques (ISO/DIS 5667-1:2019)
Kvaliteta vode – Uzorkovanje – 1. dio: Smjernice za osmišljavanje programa uzorkovanja i tehnike uzorkovanja (ISO/DIS 5667-1:2019)

- prEN ISO 13164-1 en
Water quality – Radon-222 – Part 1: General principles (ISO 13164-1:2013)
Kvaliteta vode – Radon-222 – 1. dio: Opća načela (ISO 13164-1:2013)

- prEN ISO 13164-2 en
Water quality – Radon-222 – Part 2: Test method using gamma-ray spectrometry (ISO 13164-2:2013)
Kvaliteta vode – Radon-222 – 2. dio: Metoda ispitivanja s upotrebom gama-spektrometrije (ISO 13164-2:2013)

- prEN ISO 13164-3 en
Water quality – Radon-222 – Part 3: Test method using emanometry (ISO 13164-3:2013)
Kvaliteta vode – Radon-222 – 3. dio: Metoda ispitivanja s upotrebom emanometrije (ISO 13164-3:2013)

- prEN ISO 13164-4 en
Water quality – Radon-222 – Part 4: Test method using two-phase liquid scintillation counting (ISO 13164-4:2015)

- prEN ISO 13165-1 en
Water quality – Radium-226 – Part 1: Test method using liquid scintillation counting (ISO 13165-1:2013)
Kvaliteta vode – Radij-226 – 1. dio: Metoda ispitivanja s upotrebom tekućinske scintilacije (ISO 13165-1:2013)

- prEN ISO 13165-2 en
Water quality – Radium-226 – Part 2: Test method using emanometry (ISO 13165-2:2014)
Kvaliteta vode – Radij-226 – 2. dio: Metoda ispitivanja s upotrebom emanometrije (ISO 13165-2:2014)

- prEN ISO 13165-3 en
Water quality – Radium-226 – Part 3: Test method using coprecipitation and gamma-spectrometry (ISO 13165-3:2016)

HZN/TO 163, Toplinska izolacija

- prEN 15732 en
Light weight fill and thermal insulation products for civil engineering applications (CEA) – Expanded clay lightweight aggregate products (LWA)
Proizvodi ispunjeni laganim punjenjem i toplinsko-izolacijski proizvodi za primjenu u građevinarstvu (CEA) – Proizvodi od lakoagregatne ekspanzirane gline (LWA)

HZN/TO 172, Optika i optički instrumenti

- EN ISO 8596:2018/prA1 en
Ophthalmic optics – Visual acuity testing – Standard and clinical optotypes and their presentation (ISO 8596:2017/DAMd1:2019)
Oftalmološka optika – Ispitivanje oštine vida – Standardni i klinički optotipovi i njihovo prikazivanje (ISO 8596:2017/DAMd1:2019)

- prEN ISO 8624 en
Ophthalmic optics – Spectacle frames – Measuring system and terminology (ISO/DIS 8624:2019)
Oftalmološka optika – Okviri za naočale – Mjerni sustav i nazivlje (ISO/DIS 8624:2019)

- prEN ISO 11979-5 en
Ophthalmic implants – Intraocular lenses – Part 5: Biocompatibility (ISO/DIS 11979-5:2019)
Oftalmološki implantanti – Intraokularne leće – 5. dio: Biološka podnošljivost (ISO/DIS 11979-5:2019)

- prEN ISO 15004-1 en
Ophthalmic instruments – Fundamental requirements and test methods – Part 1: General requirements applicable to all ophthalmic instruments (ISO/DIS 15004-1:2019)
Oftalmološki instrumenti – Osnovni zahtjevi i metode ispitivanja – 1. dio: Opći zahtjevi primijenjeni za sve oftalmološke instrumente (ISO/DIS 15004-1:2019)

- EN ISO 24157:2008/prA1 en
Ophthalmic optics and instruments – Reporting aberrations of the human eye (ISO 24157:2008/DAMd 1:2019)
Oftalmološka optika i instrumenti – Izvještavanje o optičkoj aberaciji ljudskog oka (ISO 24157:2008/DAMd 1:2019)

HZN/TO 221, Geosintetici

- EN ISO 9863-1:2016/prA1 en
Geosynthetics – Determination of thickness at specified pressures – Part 1: Single layers (ISO 9863-1:2016/DAMd 1:2019)
Geosintetici – Određivanje debljine pri određenim tlakovima – 1. dio: Jednoslojni (ISO 9863-1:2016/DAMd 1:2019)

- prEN ISO 12958-1 en
Geotextiles and geotextile-related products – Determination of water flow capacity in their plane – Part 1: Index test (ISO/DIS 12958-1:2019)
Geotekstil i proizvodi srodni s geotekstilom – Određivanje kapaciteta otjecanja vode u ravnini – 1. dio: Indeksno ispitivanje (ISO/DIS 12958-1:2019)

- prEN ISO 12958-2 en
Geotextiles and geotextile-related products – Determination of water flow capacity in their plane – Part 2: Performance test (ISO/DIS 12958-2:2019)
Geotekstil i proizvodi srodni s geotekstilom – Određivanje kapaciteta otjecanja vode u ravnini – 2. dio: Ispitivanje svojstava (ISO/DIS 12958-2:2019)

HZN/TO 238, Čvrsta biogoriva

- prEN ISO 20049-1 en
Solid biofuels – Determination of self-heating of pelletized biofuels
– Part 1: Isothermal calorimetry (ISO/DIS 20049-1:2019)

HZN/TO 503, Metalni materijali

- prEN 1254-1 en
Copper and copper alloys – Plumbing fittings – Part 1:
Capillary fittings for soldering or brazing to copper tubes
Bakar i legure bakra – Vodovodne spojnice – 1. dio: Spojnice
za kapilarno meko i tvrdo lemljenje bakrenih cijevi
- prEN 1254-2 en
Copper and copper alloys – Plumbing fittings – Part 2:
Compression fittings for use with copper tubes
Bakar i legure bakra – Vodovodne spojnice – 2. dio: Stezne
spojnice za upotrebu s bakrenim cijevima
- prEN 1254-3 en
Copper and copper alloys – Plumbing fittings – Part 3:
Compression fittings for use with plastics and multilayer
pipes
Bakar i legure bakra – Vodovodne spojnice – 3. dio: Stezne
spojnice za upotrebu s plastičnim i višeslojnim cijevima
- prEN 1254-4 en
Copper and copper alloys – Plumbing fittings – Part 4:
Threaded fittings
Bakar i legure bakra – Vodovodne spojnice – 4. dio: Navojne
spojnice
- prEN 1254-5 en
Copper and copper alloys – Plumbing fittings – Part 5:
Capillary fittings with short ends for brazing to copper tubes
Bakar i legure bakra – Vodovodne spojnice – 5. dio: Spojnice
s kraćim utičnim krajevima za kapilarno tvrdo lemljenje
bakrenih cijevi
- prEN 1254-6 en
Copper and copper alloys – Plumbing fittings – Part 6:
Push-fit fittings for use with metallic tubes, plastics and
multilayer pipes
Bakar i legure bakra – Vodovodne spojnice – 6. dio: Spojnice
s krajevima za naglavljivanje za upotrebu s metalnim,
plastičnim i višeslojnim cijevima
- prEN 1254-7 en
Copper and copper alloys – Plumbing fittings – Part 7: Press
fittings for use with metallic tubes
Bakar i legure bakra – Vodovodne spojnice – 7. dio: Spojnice
s krajevima za utiskivanje za upotrebu s metalnim cijevima
- prEN 1254-8 en
Copper and copper alloys – Plumbing fittings – Part 8: Press
fittings for use with plastics and multilayer pipes
Bakar i legure bakra – Vodovodne spojnice – 8. dio: Spojnice s
krajevima za utiskivanje za upotrebu s plastičnim i višeslojnim
cijevima
- prEN 1254-20 en
Copper and copper alloys – Plumbing fittings – Part 20:
Definitions, thread dimensions, test methods, reference data
and supporting information
Bakar i legure bakra – Vodovodne spojnice – 20. dio:
Definicije, dimenzije navoja, metode ispitivanja, referentni
podaci i popratne informacije
- prEN 10369-1 en
Prestressing steels – Protected and sheathed strands for
prestressing – Part 1: General requirements
Čelici za prednapinjanje – Zaštićena i obložena užad za
prednapinjanje – 1. dio: Opći zahtjevi
- prEN 10369-2 en
Prestressing steels – Protected and sheathed strands for
prestressing – Part 2: Sliding strands
Čelici za prednapinjanje – Zaštićena i obložena užad za
prednapinjanje – 2. dio: Klizna užad
- prEN 10369-3 en
Prestressing steels – Protected and sheathed strands for
prestressing – Part 3: Adherent strands
Čelici za prednapinjanje – Zaštićena i obložena užad za
prednapinjanje – 3. dio: Spojena užad

- prEN 10370 en
Steel for the reinforcement of concrete – Stainless steel
Čelik za armiranje betona – Nehrdajući čelik

- prEN 10371 en
Metallic materials – Small punch test method
Metalni materijali – Metoda small punch test

HZN/TO 504, Korozija i zaštita metala i legura

- prEN ISO 11463 en
Corrosion of metals and alloys – Evaluation of pitting corrosion
(ISO/DIS 11463:2019)
Korozija metala i legura – Vrednovanje jamičaste korozije
(ISO/DIS 11463:2019)

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

- prEN ISO 27509 en
Petroleum and natural gas industries – Compact flanged
connections with IX seal ring (ISO/DIS 27509:2019)
Industrija nafte i prirodnoga plina – Kompaktni prirubnički
priključci s IX brtvjenim prstenom (ISO/DIS 27509:2019)

HZN/TO 513, Mjerne jedinice i mjerila

- prEN ISO 5167-6 en
Measurement of fluid flow by means of pressure differential
devices inserted in circular cross-section conduits running full
– Part 6: Wedge meters (ISO 5167-6:2019)
- prEN 12405-1 en
Gas meters – Conversion devices – Part 1: Volume
conversion
Plinomjeri – Uređaji za korekciju – 1. dio: Korekcija obujma
- prEN ISO 20456 en
Measurement of fluid flow in closed conduits – Guidance for
the use of electromagnetic flowmeters for conductive liquids
(ISO 20456:2017)
Mjerenje protoka kapljevina u zatvorenim cjevovodima
– Upute za uporabu elektromagnetskih uređaja za mjerenje
protoka vodljivih kapljevina (ISO 20456:2017)

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

- prEN 17388-1 en
Flexible sheets for waterproofing – Environmental product
declaration – Product Category Rules for reinforced bitumen,
plastic and rubber flexible sheets for (roof) waterproofing
– Part 1: Cradle to grave
- prEN 17388-2 en
Flexible sheets for waterproofing – Environmental product
declarations – Product Category Rules for reinforced bitumen,
plastic and rubber flexible sheets for (roof) waterproofing
– Part 2: Cradle to gate with options

HZN/TO 528, Oprema za željeznice

- prEN 13231-2 en
Railway applications – Track – Acceptance of works – Part 2:
Acceptance of reprofiling rails in plain line, switches, crossings
and expansion devices
- prEN 17397-1 en
Railway applications – Rail defects – Part 1: Rail defect
management

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

- prEN 13001-2 en
Crane safety – General design – Part 2: Load actions
Sigurnost granika – Osnove projektiranja – 2. dio: Djelovanje
opterećenja

HZN/TO 531, Plastika i guma

- prEN ISO 844 en
Rigid cellular plastics – Determination of compression
properties (ISO/DIS 844:2019)
Kruta pjenasta plastika – Određivanje tlačnih svojstava
(ISO/DIS 844:2019)

prEN ISO 2440 en
Flexible and rigid cellular polymeric materials – Accelerated ageing tests (ISO/FDIS 2440:2019)
Savitljivi i kruti pjenasti polimerni materijali – Ispitivanje ubrzanog starenja (ISO/FDIS 2440:2019)

prEN 17410 en
Plastics – Controlled loop recycling of post-consumer (or post-use) PVC-U windows and doors

HZN/TO 532, Dimnjaci

prEN 1856-1 en
Chimneys – Requirements for metal chimneys – Part 1: System chimney products
Dimnjaci – Zahtjevi za metalne dimnjake – 1. dio: Proizvodi sustava dimnjaka

prEN 1856-2 en
Chimneys – Requirements for metal chimneys – Part 2: Metal flue liners and connecting flue pipes
Dimnjaci – Zahtjevi za metalne dimnjake – 2. dio: Metalne cijevi i priključne dimnovodne cijevi

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

prEN 1627 en
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification
Vrata za pješake, prozori, ovisne fasade, rešetke i kapci – Otpornost na provalu – Zahtjevi i razredba

prEN 1628 en
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading
Vrata za pješake, prozori, ovisne fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod statičkim opterećenjem

prEN 1629 en
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading
Vrata za pješake, prozori, ovisne fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti pod dinamičkim opterećenjem

prEN 1630 en
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts
Vrata za pješake, prozori, ovisne fasade, rešetke i kapci – Otpornost na provalu – Metoda ispitivanja za određivanje otpornosti na provalu priručnim alatom

EN 12453:2017/prA1 en
Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Requirements and test methods
Industrijska, komercijalna, garažna i ostala ulazna vrata – Sigurnost pri upotrebi strojno pogonjenih vrata – Zahtjevi i metode ispitivanja

EN 12604:2017/prA1 en
Industrial, commercial and garage doors and gates – Mechanical aspects – Requirements and test methods
Industrijska, komercijalna, garažna i ostala ulazna vrata – Mehanička gledišta – Zahtjevi i metode ispitivanja

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

prEN ISO 128-1 en
Technical product documentation (TPD) – General principles of representation – Part 1: Introduction and fundamental requirements (ISO/DIS 128-1:2019)
Tehnička dokumentacija proizvoda – Osnovna načela prikazivanja – 1. dio: Uvod i osnovni zahtjevi (ISO/DIS 128-1:2019)

prEN ISO 128-100 en
Technical product documentation – General principles of representation – Part 100: Index (ISO/DIS 128-100:2019)
Tehnička dokumentacija proizvoda – Osnovna načela prikazivanja – 100. dio: Kazalo (ISO/DIS 128-100:2019)

prEN ISO 129-1 en
Technical product documentation (TPD) – Presentation of dimensions and tolerances – Part 1: General principles (ISO 129-1:2018)
Tehnička dokumentacija proizvoda – Prikazivanje dimenzija i tolerancija – 1. dio: Opća načela (ISO 129-1:2018)

prEN ISO 2692 en
Geometrical product specifications (GPS) – Geometrical tolerancing – Maximum material requirement (MMR), least material requirement (LMR) and reciprocity requirement (RPR) (ISO/DIS 2692:2019)
Geometrijske specifikacije proizvoda (GSP) – Geometrijske tolerancije – Zahtjev za najviše materijala (MMR), zahtjev za najmanje materijala (LMR) i zahtjev uzajamnosti (RPR) (ISO/DIS 2692:2019)

prEN ISO 6414 en
Technical product documentation (TPD) – Technical drawings for glassware (ISO/DIS 6414:2018)
Tehnička dokumentacija proizvoda – Tehnički crteži dijelova od stakla (ISO/DIS 6414:2018)

prEN ISO 10360-10 en
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 10: Laser trackers for measuring point-to-point distances (ISO/DIS 10360-10:2019)
Geometrijske specifikacije proizvoda (GSP) – Testovi za prihvatljivost i naknadnu provjeru trokoordinatnih mjernih uređaja (CMS) – 10. dio: Laserski tragači za mjerenje udaljenosti od točke do točke (ISO/DIS 10360-10:2019)

prEN ISO 13385-2 en
Geometrical product specifications (GPS) – Dimensional measuring equipment – Part 2: Calliper depth gauges, Design and metrological characteristics (ISO/DIS 13385-2:2019)
Geometrijske specifikacije proizvoda (GSP) – Dimenzijska mjerna oprema – 2. dio: Pomična mjerila dubine – Konstrukcija i mjeriteljska svojstva (ISO/DIS 13385-2:2019)

prEN ISO 13715 en
Technical product documentation – Edges of undefined shape – Indication and dimensioning (ISO 13715:2017)
Tehnička dokumentacija proizvoda – Rubovi nedefiniranog oblika – Označavanje i dimenzioniranje (ISO 13715:2017)

prEN ISO 16610-29 en
Geometrical product specifications (GPS) – Filtration – Part 29: Linear profile filters – Wavelets (ISO/DIS 16610-29:2019)

prEN ISO 18388 en
Technical product documentation (TPD) – Relief grooves – Types and dimensioning (ISO 18388:2016)

prEN ISO 22081 en
Geometrical product specifications (GPS) – Geometrical tolerancing – General geometrical and dimensional specifications (ISO/DIS 22081:2019)
Geometrijske specifikacije proizvoda (GSP) – Geometrijske tolerancije – Opće geometrijske i dimenzijske specifikacije (ISO/DIS 22081:2019)

HZN/TO 551, Gradnja

prEN 17412 en
Building Information Modelling – Level of Information Need – Concepts and principles

HZN/TO 555, Medicinski proizvodi

EN ISO 11737-1:2018/prA1 en
Sterilization of health care products – Microbiological methods – Part 1: Determination of a population of microorganisms on products (ISO 11737-1:2018/DAM 1:2019)
Sterilizacija medicinskoga pribora – Mikrobiološke metode – 1. dio: Određivanje vrste i broja mikroorganizama na proizvodima (ISO 11737-1:2018/DAM 1:2019)

prEN ISO 15883-5 en
Washer disinfectors – Part 5: Performance requirements and test method criteria for demonstrating cleaning efficacy (ISO/DIS 15883-5:2019)
Uređaji za pranje i dezinfekciju – 5. dio: Izvedbeni zahtjevi i metode ispitivanja za prikaz učinkovitosti čišćenja (ISO/DIS 15883-5:2019)

HZN/TO 560, Tekstilni proizvodi

prEN ISO 20418-3 en

Textiles – Qualitative and quantitative proteomic analysis of some animal hair fibers – Part 3: Peptide detection using LC-MS without protein reduction (ISO/DIS 20418-3:2019)

HZN/TO E9, Električna oprema za željeznicu

prEN IEC 62973-2:2019 en

Railway applications – Batteries for auxiliary power supply systems – Part 2: Nickel Cadmium (NiCd) batteries (IEC 62973-2:201X)

HZN/TO E23, Električni instalacijski pribor

prEN 63180:2019 en

Methodology for determining the functionality of detectors – Part 1: Passive infra-red detectors for presence and motion detection (IEC 63180:201X)

HZN/TO E34, Žarulje, svjetiljke i pripadna oprema

EN 60598-1:2015/prA2:2019 en

Luminaires – Part 1: General requirements and tests (IEC 60598-1:2014/am2:201X)
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja (IEC 60598-1:2014/am2:201X)

HZN/TO E36, Izolatori

EN IEC 61952-1:2019 en

Insulators for overhead lines – Composite line post insulators for AC systems with a nominal voltage greater than 1 000 V – Part 1: definitions, end fittings and designations (IEC 61952-1:2019)
Izolatori za nadzemne vodove – Kompozitni vodni potporni izolatori za izmjenične sustave nazivnog napona većeg od 1 000 V – 1. dio: Definicije, krajnje spojnice i oznake (IEC 61952-1:2019)

HZN/TO E45, Nuklearna instrumentacija

prEN IEC 61225 en

Nuclear power plants – Instrumentation, control and electrical power systems – Requirements for static uninterruptible DC and AC power supply systems (IEC 61225:2019)
Nuklearne elektrane – Instrumentacija, upravljanje i električni sustavi za napajanje – Zahtjevi za statične neprekinute sustave za napajanje istosmjernom i izmjeničnom strujom (IEC 61225:2019)

prEN IEC 62327 en

Radiation protection instrumentation – Hand-held instruments for the detection and identification of radionuclides and for the estimation of ambient dose equivalent rate from photon radiation (IEC 62327:2017)
Instrumentacija u zaštiti od zračenja – Ručni instrumenti za detekciju i identifikaciju radionuklida i za indicaciju brzine ambijentnog doznog ekvivalenta od fotonskog zračenja (IEC 62327:2017)

prEN IEC 62401 en

Radiation protection instrumentation – Alarming personal radiation devices (PRDs) for the detection of illicit trafficking of radioactive material (IEC 62401:2017)
Instrumentacija u zaštiti od zračenja – Alarmni osobni uređaji za detekciju nedopuštenog prometa radioaktivnog materijala (IEC 62401:2017)

HZN/TO E55, Žice za namote

prEN IEC 60317-0-6:2019 en

Specifications for particular types of winding wires – Part 0-6: General requirements – Glass-fibre wound resin or varnish impregnated; bare or enamelled round copper wire (IEC 60317-0-6:201X)
Specifikacije pojedinih vrsta žica za namote – Dio 0-6: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena žica omotana staklenim vlaknima i impregnirana smolom ili lakom (IEC 60317-0-6:201X)

prEN IEC 60317-61:2019 en

Specifications for particular types of winding wires – Part 61: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180 (IEC 60317-61:201X)

HZN/TO E61, Sigurnost električnih kućanskih i sličnih aparata

FprEN 60335-2-36:2017/prA11:2019 en

Household and similar electrical appliances – Safety – Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements
Kućanski i slični električni aparati – Sigurnost – Dio 2-36: Posebni zahtjevi za ugostiteljske električne štednjake, pećnice, ploče za kuhanje i elemente ploča za kuhanje

prEN IEC 60335-2-40 en

Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:2013+am1:2016)
Kućanski i slični električni aparati – Sigurnost – Dio 2-40: Posebni zahtjevi za električne dizalice topline, klima-uređaje i sušila zraka (IEC 60335-2-40:2013+am1:2016)

HZN/TO E78, Rad pod naponom

prEN IEC 61472-2:2019 en

Live working – Minimum approach distances – Part 2: A method of determination for AC system 1,0 to 72,5 kV (IEC 61472-2:201X)

prEN IEC 63247-1:2019 en

Live working – Part 1: Footwear for electrical protection – Insulating footwear and overboots (IEC 63247-1:201X)

HZN/TO E79, Alarmni sustavi

EN 50131-1:2006/prA3:2019 en

Alarm systems – Intrusion and hold-up systems – Part 1: System requirements
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – 1. dio: Sustavski zahtjevi

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

EN 50083-2:2012/prA2 en

Cable networks for television signals, sound signals and interactive services – Part 2: Electromagnetic compatibility for equipment

prEN 63181-2:2019 en

LCD multi-screen display terminals – Part 2: Measuring methods (IEC 63181-2:201X)

HZN/TO E103, Odašiljačka oprema za radiokomunikacije

FprEN IEC 60215:201X/prAA en

Safety requirements for radio transmitting equipment – General requirements and terminology

HZN/TO E106, Elektromagnetska polja u ljudskome okolišu

EN 50401:2017/prA1 en

Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when put into service
Norma za proizvode za pokazivanje sukladnosti opreme bazne postaje s granicama izloženosti radiofrekvencijskom elektromagnetskom polju (110 MHz - 100 GHz), kada je puštena u rad

HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama

EN 55014-1:2017/prA1 (fragment 1):2019 en

Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2016/am1:201X {frag 1})
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 1. dio: Emisija (CISPR 14-1:2016/am1:201X {frag 1})

EN 55014-1:2017/prA1 (fragment 4):2019 en

Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2016/am1:201X {frag 4})
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 1. dio: Emisija (CISPR 14-1:2016/am1:201X {frag 4})

EN 55014-1:2017/prA1 {fragment 5}:2019 en
Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2016/am1:201X {frag 5})
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 1. dio: Emisija (CISPR 14-1:2016/am1:201X {frag 5})

EN 55014-2:2015/prA1 {fragment 3}:2019 en
Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard (CISPR 14-2:2015/am1:201X {frag 3})
Elektromagnetska kompatibilnost – Zahtjevi za kućanske uređaje, električne alate i slične uređaje – 2. dio: Otpornost – Norma porodice proizvoda (CISPR 14-2:2015/am1:201X {frag 3})

EN 55032:2015/FprA1:2019 en
Electromagnetic compatibility of multimedia equipment – Emission requirements (CISPR 32:2015/A1:201X {frag 1})
Elektromagnetska kompatibilnost multimedijске opreme – Zahtjevi za emisiju (CISPR 32:2015/A1:201X {frag 1})

EN IEC 61000-3-2:2019/prA1:2019 {fragment 1} en
Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤16 A per phase) (IEC 61000-3-2:2018/am1:201X {frag 1})
Elektromagnetska kompatibilnost (EMC) – Dio 3-2: Granice – Granice za harmoničke strujne emisije (za ulazne struje uređaja ≤ 16 A po fazi) (IEC 61000-3-2:2018/am1:201X {frag 1})

HZN/TO E501, Elektroakustika i ultrazvuk

prEN IEC 63045:2019 en
Ultrasonics – Non-focusing and weakly focusing pressure pulse sources – Characteristics of fields (IEC 63045:201X)

HZN/TO Z2, Ocjenjivanje sukladnosti i akreditacija

prEN ISO/IEC 17000 en
Conformity assessment – Vocabulary and general principles (ISO/IEC/DIS 17000:2019)
Ocjenjivanje sukladnosti – Rječnik i opća načela (ISO/IEC/DIS 17000:2019)

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

prEN 1816 en
Resilient floor coverings – Specification for homogeneous and heterogeneous smooth rubber floor coverings with foam backing
Elastične podne obloge – Specifikacija za homogene i heterogene podne obloge od glatke gume s pjenastom podlogom

prEN 1817 en
Resilient floor coverings – Specification for homogeneous and heterogeneous smooth rubber floor coverings
Elastične podne obloge – Specifikacija za homogene i heterogene podne obloge od glatke gume

prEN 12199 en
Resilient floor coverings – Specifications for homogeneous and heterogeneous relief rubber floor coverings
Elastične podne obloge – Specifikacija za homogene i heterogene podne obloge od reljefne gume

prEN 17396 en
Resilient floor coverings – Quartz vinyl tiles – Specification

HZN/TU B1, Graditeljstvo 1

EN 16516:2017/prA1 en
Construction products: Assessment of release of dangerous substances – Determination of emissions of into indoor air
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Određivanje emisija u zrak u zatvorenom prostoru

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

prEN 13523-6 en
Coil coated metals – Test methods – Part 6: Adhesion after indentation (cupping test)
Metali zaštićeni trakom – Metode ispitivanja – 6. dio: Prionljivost nakon utiskivanja (postupkom izvlačenja)

prEN 13523-18 en
Coil coated metals – Test methods – Part 18: Resistance to staining
Metali zaštićeni trakom – Metode ispitivanja – 18. dio: Otpornost na nastajanje mrlja

prEN 13523-20 en
Coil coated metals – Test methods – Part 20: Foam adhesion
Metali zaštićeni trakom – Metode ispitivanja – 20. dio: Prionljivost pjene

HZN/TU I2, Strojarsvo 2

prEN ISO 17200 en
Nanotechnology – Nanoparticles in powder form – Characteristics and measurements (ISO/DIS 17200:2019)
Nanotehnologija – Nanočestice u praškastom obliku – Karakteristike i mjerenja (ISO/DIS 17200:2019)

prEN ISO 23062 en
Foundry machinery – Safety requirements for molding and coremaking machinery and associated equipment (ISO/DIS 23062:2019)
Strojevi za lijevanje – Sigurnosni zahtjevi za strojeve za lijevanje u kalupe, proizvodnju ljevačkih jezgri i prateću opremu (ISO/DIS 23062:2019)

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

prEN ISO 7787-2 en
Dentistry – Laboratory cutters – Part 2: Carbide laboratory cutters (ISO/DIS 7787-2:2019)

prEN ISO 28399 en
Dentistry – Products for external tooth bleaching (ISO/DIS 28399:2019)
Stomatologija – Proizvodi za vanjsko izbjeljivanje zuba (ISO/DIS 28399:2019)

HZN/TU S2, Zdravlje, okoliš i medicinska oprema 2

prEN 16524 en
Mechanical products – Methodology for reduction of environmental impacts in product design and development

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

FprEN 3660-063 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
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 063: Kabelski izlaz, tip K, ravni, za elemente koje se skupljaju na toplini, oklopljeni, zabrtvljeni, samozatvarajući – Norma za proizvod

FprEN 3660-064 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
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 064: Kabelski izlaz, tip K, ravni, za elemente koje se skupljaju na toplini, oklopljeni, zabrtvljeni, samozatvarajući – Norma za proizvod

FprEN 3660-065 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
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 065: Kabelski izlaz, tip K, 90°, za elemente koje se skupljaju na toplini, oklopljeni, zabrtvljeni, samozatvarajući – Norma za proizvod

HZN/TU U1, Opća elektrotehnika 1

prEN 61788-26:2019 en
Superconductivity – Part 26: Critical current measurement – DC critical current of RE-Ba-Cu-O composite superconductors (IEC 61788-26:201X)
Supravodljivost – 26. dio: Mjerenje kritične struje – Kritična istosmjerna struja (DC) RE-Ba-Cu-O kompozitnih supravodiča (IEC 61788-26:201X)

HZN/TU V1, *Elektronika 1*

- prEN 50377-14-1 en
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 14-1: Simplex and duplex cords made from simplex plugs with cylindrical ferrules, using EN 60793-2-50 single-mode B1 or B6 fibre for Category C according to EN 61753-1
- prEN IEC 60747-5-5:2019 en
Semiconductor devices – Part 5-5: Optoelectronic devices – Photocouplers (IEC 60747-5-5:201X)
- prEN IEC 61189-5-504:2019 en
Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-504: General test methods for materials and assemblies – Process ionic contamination testing (PICT) (IEC 61189-5-504:201X)
- EN IEC 61300-2-4:2019/prA1:2019 en
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre or cable retention (IEC 61300-2-4:2019/am1:201X)
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Osnovni postupci ispitivanja i mjerenja – Dio 2-4: Ispitivanja – Zadržavanje vlakana ili kabela (IEC 61300-2-4:2019/am1:201X)
- prEN 61753-061-2:2019 en
Fibre optic interconnecting devices and passive components – Performance standard – Part 061-2: Single-mode fibre optic pigtailed style polarization independent isolators for category C – Controlled environments (IEC 61753-061-2:201X)
- prEN IEC 61757-1-1:2019 en
Fibre optic sensors – Part 1-1: Strain measurement – Strain sensors based on fibre Bragg gratings (IEC 61757-1-1:201X)
- prEN 61977:2019 en
Fibre optic interconnecting devices and passive components – Fibre optic fixed filters – Generic specification (IEC 61977:201X)
- prEN IEC 62148-6:2019 en
Fibre optic active components and devices – Package and interface standards – Part 6: ATM-PON transceivers (IEC 62148-6:201X)
- prEN IEC 62149-11:2019 en
Fibre optic active components and devices – Performance standards – Part 11: Multiple channel transmitter/receiver chip scale package with multimode fibre interface (IEC 62149-11:201X)
- prEN IEC 62610-6:2019 en
Mechanical structures for electrical and electronic equipment – Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 Series – Part 6: Air recirculation and bypass of indoor cabinets (IEC 62610-6:201X)

HZN/TU W1, *Energetska elektrotehnika 1*

- prEN 62485-5:2019 en
Safety requirements for secondary batteries and battery installations – Part 5: Safe operation of stationary lithium-ion batteries (IEC 62485-5:201X)
- prEN 62485-6:2019 en
Safety requirements for secondary batteries and battery installations – Part 5: Safe operation of lithium-ion batteries in traction applications (IEC 62485-6:201X)
- prEN IEC 62841-4-4:2019 en
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws (IEC 62841-4-4:201X)
- prEN IEC 62841-4-4:2019/prAA:2019 en
Electric motor-operated hand-held tools; transportable tools and lawn and garden machinery – Safety – Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws
- prEN IEC 63115-2:2019 en
Secondary cells and batteries containing alkaline or other non-acid electrolytes – Sealed nickel-metal hydride rechargeable cells and modules for use in industrial applications – Part 2: Safety (IEC 63115-2:201X)

HZN/TU Z1, *Informatika 1*

- prEN ISO/IEC 27000 en
Information technology – Security techniques – Information security management systems – Overview and vocabulary (ISO/IEC 27000:2018)
Informacijska tehnologija – Sigurnosne tehnike – Sustavi upravljanja informacijskom sigurnošću – Pregled i rječnik (ISO/IEC 27000:2018)

1.4 Povučene hrvatske norme

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

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

HZN/TO 8, *Brodogradnja*

- HRN EN ISO 12215-5:2018 en
Mala plovila – Konstrukcija trupa i dimenzije konstrukcijskih elemenata – 5. dio: Projektni tlakovi za jednotrupna plovila, projektna naprezanja, određivanje dimenzija konstrukcijskih elemenata (ISO 12215-5:2008; EN ISO 12215-5:2018)
Small craft – Hull construction and scantlings – Part 5: Design pressures for monohulls, design stresses, scantlings determination (ISO 12215-5:2008; EN ISO 12215-5:2018)
- zamijenjena s: HRN EN ISO 12215-5:2019
- HRN EN 15869-1:2010 en
Plovni objekti unutarnje plovidbe – Električni priključak s kopna, trofazne izmjenične struje 400 V, do 63 A, 50 Hz – 1. dio: Opći zahtjevi (EN 15869-1:2010)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, up to 63 A, 50 Hz – Part 1: General requirements (EN 15869-1:2010)
- zamijenjena s: HRN EN 15869-1:2019
- HRN EN 15869-2:2010 en
Plovni objekti unutarnje plovidbe – Električni priključak s kopna, trofazne izmjenične struje 400 V, do 63 A, 50 Hz – 2. dio: Uređaj na kopnu, sigurnosni zahtjevi (EN 15869-2:2010)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, up to 63 A, 50 Hz – Part 2: Onshore unit, safety requirements (EN 15869-2:2010)
- zamijenjena s: HRN EN 15869-2:2019
- HRN EN 15869-3:2010 en
Plovni objekti unutarnje plovidbe – Električni priključak s kopna, trofazne izmjenične struje 400 V, do 63 A, 50 Hz – 3. dio: Uređaj na plovnom objektu, sigurnosni zahtjevi (EN 15869-3:2010)
Inland navigation vessels – Electrical shore connection, three phase current 400 V, up to 63 A, 50 Hz – Part 3: On-board unit, safety requirements (EN 15869-3:2010)
- zamijenjena s: HRN EN 15869-3:2019

HZN/TO 28, *Naftni proizvodi i maziva*

- HRN ISO 3016:1997 en
Naftni proizvodi – Određivanje točke tečenja (ISO 3016:1994)
Petroleum products – Determination of pour point (ISO 3016:1994)
- zamijenjena s: HRN EN ISO 3016:2019
- HRN ISO 13398:2002 en
Pothlađeni laki ugljikovodici – Ukapljeni prirodni plin – Postupak za pretakanje na brod kroz zatvoreni sustav (ISO 13398:1997)
Refrigerated light hydrocarbon fluids – Liquefied natural gas – Procedure for custody transfer on board ship (ISO 13398:1997)
- zamijenjena s: HRN ISO 10976:2015

HZN/TO 34, Poljoprivredni i prehrambeni proizvodi

HRN EN ISO 7971-2:2010 en

Žitarice – Određivanje nasipne gustoće nazvane "hektolitarska masa" – 2. dio: Metoda sljedljivosti za mjerne instrumente preko referentnog do međunarodnog standardnog instrumenta (ISO 7971-2:2009; EN ISO 7971-2:2009)
Cereals – Determination of bulk density, called mass per hectolitre – Part 2: Method of traceability for measuring instruments through reference to the international standard instrument (ISO 7971-2:2009; EN ISO 7971-2:2009)
- zamijenjena s: HRN EN ISO 7971-2:2019

HRN EN ISO 7971-3:2010 en

Žitarice – Određivanje nasipne gustoće, nazvane "hektolitarska masa" – 3. dio: Rutinska metoda (ISO 7971-3:2009; EN ISO 7971-3:2009)
Cereals – Determination of bulk density, called mass per hectolitre – Part 3: Routine method (ISO 7971-3:2009; EN ISO 7971-3:2009)
- zamijenjena s: HRN EN ISO 7971-3:2019

HZN/TO 44, Zavarivanje i srodni postupci

HRN EN ISO 15620:2002 en

Zavarivanje – Zavarivanje metalnih materijala trenjem (ISO 15620:2000; EN ISO 15620:2000)
Welding – Friction welding of metallic materials (ISO 15620:2000; EN ISO 15620:2000)
- zamijenjena s: HRN EN ISO 15620:2019

HZN/TO 47, Kemija

HRN EN 14175-3:2004 en

Digestori – 3. dio: Tipovi ispitnih metoda (EN 14175-3:2003)
Fume cupboards – Part 3: Type test methods (EN 14175-3:2003)
- zamijenjena s: HRN EN 14175-3:2019

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

HRN EN 16825:2016 en

Rashladni ormari i vitrine za skladištenje hrane za profesionalnu upotrebu – Razredba, zahtjevi i uvjeti ispitivanja (EN 16825:2016)
Refrigerated storage cabinets and counters for professional use – Classification, requirements and test conditions (EN 16825:2016)
- zamijenjena s: HRN EN ISO 22041:2019

HRN EN 16825:2016/A1:2019 en

Rashladni ormari i vitrine za skladištenje hrane za profesionalnu upotrebu – Razredba, zahtjevi i uvjeti ispitivanja (EN 16825:2016/A1:2019)
Refrigerated storage cabinets and counters for professional use – Classification, requirements and test conditions (EN 16825:2016/A1:2019)
- zamijenjena s: HRN EN ISO 22041:2019

HRN EN 16838:2016 en

Rashladne vitrine za prodaju obrtnički proizvedenog sladoleda – Razredba, zahtjevi i uvjeti ispitivanja (EN 16838:2016)
Refrigerated display scooping cabinets for gelato – Classification, requirements and test conditions (EN 16838:2016)
- zamijenjena s: HRN EN 16838:2019

HZN/TO 89, Furniri i drvene ploče

HRN EN 622-4:2010 en

Ploče vlaknate – Specifikacije – 4. dio: Zahtjevi za lake ploče (EN 622-4:2009)
Fibreboards – Specifications – Part 4: Requirements for softboards (EN 622-4:2009)
- zamijenjena s: HRN EN 622-4:2019

HZN/TO 120, Koža i obuća

HRN EN ISO 18218-2:2015 en

Koža – Određivanje etoksiliranih alkilfenola – 2. dio: Neizravna metoda (ISO 18218-2:2015; EN ISO 18218-2:2015)
Leather – Determination of ethoxylated alkylphenols – Part 2: Indirect method (ISO 18218-2:2015; EN ISO 18218-2:2015)
- zamijenjena s: HRN EN ISO 18218-2:2019

HRN EN ISO 23910:2017 en

Koža – Fizikalna i mehanička ispitivanja – Mjerenje otpornosti na kidanje klinom (ISO 23910:2017; EN ISO 23910:2017)
Leather – Physical and mechanical tests – Measurement of stitch tear resistance (ISO 23910:2017; EN ISO 23910:2017)
- zamijenjena s: HRN EN ISO 23910:2019

HZN/TO 135, Nerazorna ispitivanja

HRN EN 14127:2012 en

Nerazorno ispitivanje – Mjerenje debljine ultrazvukom (EN 14127:2011)
Non-destructive testing – Ultrasonic thickness measurement (EN 14127:2011)
- zamijenjena s: HRN EN ISO 16809:2019

HZN/TO 136, Namještaj

HRN EN 716-1:2017 en

Namještaj – Dječji kreveti i prijenosni dječji kreveti za kućnu uporabu – 1. dio: Sigurnosni zahtjevi (EN 716-1:2017)
Furniture – Children's cots and folding cots for domestic use – Part 1: Safety requirements (EN 716-1:2017)
- zamijenjena s: HRN EN 716-1:2019

HRN EN 15939:2014 en

Okov za namještaj – Čvrstoća i nosivost opreme koja se stavlja na zid (EN 15939:2011+A1:2014)
Hardware for furniture – Strength and loading capacity of wall attachment devices (EN 15939:2011+A1:2014)
- zamijenjena s: HRN EN 15939:2019

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

HRN EN 549:2001 en

Elastomerna gradiva za brtve i membrane u plinskim uređajima i plinskoj opremi (EN 549:1994)
Rubber materials for seals and diaphragms for gas appliances and gas equipment (EN 549:1994)
- zamijenjena s: HRN EN 549:2019

HRN EN 1401-1:2009 en

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 1401-1:2009)
Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U) – Part 1: Specifications for pipes, fittings and the system (EN 1401-1:2009)
- zamijenjena s: HRN EN 1401-1:2019

HZN/TO 146, Kvaliteta zraka

HRN EN 1076:2010 en

Profesionalna izloženost – Postupci mjerenja plinova i para uporabom prosisnih uzorkovača – Zahtjevi i metode ispitivanja (EN 1076:2009)
Workplace exposure – Procedures for measuring gases and vapours using pumped samplers – Requirements and test method (EN 1076:2009)
- zamijenjena s: HRN EN ISO 22065:2019

HZN/TO 147, Kvaliteta vode

HRN EN ISO 9697:2017 en

Kvaliteta vode – Mjerenje ukupne beta aktivnosti u slatkoj vodi – Metoda debelog izvora (ISO 9697:2015; EN ISO 9697:2017)
Water quality – Gross beta activity in non-saline water – Test method using thick source (ISO 9697:2015; EN ISO 9697:2017)
- zamijenjena s: HRN EN ISO 9697:2019

HZN/TO 215, Medicinska informatika

HRN EN ISO 13606-1:2014 en

Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 1. dio: Referentni model (ISO 13606-1:2008; EN ISO 13606-1:2012)
Health informatics – Electronic health record communication – Part 1: Reference model (ISO 13606-1:2008; EN ISO 13606-1:2012)
- zamijenjena s: HRN EN ISO 13606-1:2019

HRN EN 13606-2:2008 en
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 2. dio: Specifikacija razmjene prototipova (EN 13606-2:2007)
Health informatics – Electronic health record communication – Part 2: Archetypes interchange specification (EN 13606-2:2007)
- zamijenjena s: HRN EN ISO 13606-2:2019

HRN EN 13606-3:2008 en
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 3. dio: Referentni prototipovi i popisi naziva (EN 13606-3:2008)
Health informatics – Electronic health record communication – Part 3: Reference archetypes and term lists (EN 13606-3:2008)
- zamijenjena s: HRN EN ISO 13606-3:2019

HRN EN 13606-4:2008 en
Medicinska informatika – Prijenos elektroničkoga medicinskog zapisa – 4. dio: Sigurnost (EN 13606-4:2007)
Health informatics – Electronic health record communication – Part 4: Security (EN 13606-4:2007)
- zamijenjena s: HRN EN ISO 13606-4:2019

HRN EN ISO 13606-5:2012 en
Medicinska informatika – Prijenos elektroničkoga zdravstvenog zapisa – 5. dio: Specifikacija sučelja (ISO 13606-5:2010; EN ISO 13606-5:2010)
Health informatics – Electronic health record communication – Part 5: Interface specification (ISO 13606-5:2010; EN ISO 13606-5:2010)
- zamijenjena s: HRN EN ISO 13606-5:2019

HZN/TO 503, Metalni materijali

HRN EN 10136:2008 en
Kemijska analiza materijala na bazi željeza – Određivanje nikla u čelicima i željeznim lijevovima – Metoda plamene atomske apsorpcijske spektrometrije (EN 10136:1989)
Chemical analysis of ferrous materials – Determination of nickel in steels and irons – Flame atomic absorption spectrometric method (EN 10136:1989)
- zamijenjena s: HRN EN 10136:2019

HRN EN 10177:2008 en
Kemijska analiza materijala na bazi željeza – Određivanje kalcija u čelicima – Metoda plamene atomske apsorpcijske spektrometrije (EN 10177:1989)
Chemical analysis of ferrous materials – Determination of calcium in steels – Flame atomic absorption spectrometric method (EN 10177:1989)
- zamijenjena s: HRN EN 10177:2019

HRN EN 10181:2008 en
Kemijska analiza materijala na bazi željeza – Određivanje olova u čelicima – Metoda plamene atomske apsorpcijske spektrometrije (EN 10181:1989)
Chemical analysis of ferrous materials – Determination of lead in steels – Flame atomic absorption spectrometric method (EN 10181:1989)
- zamijenjena s: HRN EN 10181:2019

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

HRN EN ISO 10418:2006 en
Industrija nafte i prirodnoga plina – Odobalne proizvodne instalacije – Osnovni površinski procesni sigurnosni sustavi (ISO 10418:2003; EN ISO 10418:2003)
Petroleum and natural gas industries – Offshore production installations – Basic surface process safety systems (ISO 10418:2003; EN ISO 10418:2003)
- zamijenjena s: HRN EN ISO 10418:2019

HRN EN ISO 10418:2006/Ispr.1:2012 en
Industrija nafte i prirodnoga plina – Odobalna proizvodna postrojenja – Analiza, projektiranje, instalacija i ispitivanje osnovnih površinskih sustava za sigurnost procesa (ISO 10418:2003/Cor 1:2008; EN ISO 10418:2003/AC:2009)
Petroleum and natural gas industries – Offshore production installations – Analysis, design, installation and testing of basic surface process safety systems (ISO 10418:2003/Cor 1:2008; EN ISO 10418:2003/AC:2009)
- zamijenjena s: HRN EN ISO 10418:2019

HRN EN ISO 19900:2014 en
Industrija nafte i prirodnoga plina – Opći zahtjevi za odobalne objekte (ISO 19900:2013; EN ISO 19900:2013)
Petroleum and natural gas industries – General requirements for offshore structures (ISO 19900:2013; EN ISO 19900:2013)
- zamijenjena s: HRN EN ISO 19900:2019

HRN EN ISO 19904-1:2007 en
Industrija nafte i prirodnoga plina – Plutajuće odobalne konstrukcije – 1. dio: Jednotrupne, poluuronjive i spar (kesonske) platforme (ISO 19904-1:2006; EN ISO 19904-1:2006)
Petroleum and natural gas industries – Floating offshore structures – Part 1: Monohulls, semi-submersibles and spars (ISO 19904-1:2006; EN ISO 19904-1:2006)
- zamijenjena s: HRN EN ISO 19904-1:2019

HZN/TO 522, Karakterizacija i zbrinjavanje otpada

HRN EN 13071-1:2008 en
Stalni spremnici za otpad do 5 000 l koji se podižu i prazne kroz dno – 1. dio: Opći zahtjevi (EN 13071-1:2008)
Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 1: General requirements (EN 13071-1:2008)
- zamijenjena s: HRN EN 13071-1:2019

HRN EN 13071-1:2008/Ispr.1:2014 en
Stalni spremnici za otpad do 5 000 l koji se podižu i prazne kroz dno – 1. dio: Opći zahtjevi (EN 13071-1:2008/AC:2010)
Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 1: General requirements (EN 13071-1:2008/AC:2010)
- zamijenjena s: HRN EN 13071-1:2019

HRN EN 13071-2:2014 en
Stalni spremnici za otpad do 5 000 l koji se podižu i prazne kroz dno – 2. dio: Dodatni zahtjevi za podzemne i djelomice podzemne sustave (EN 13071-2:2008+A1:2013)
Stationary waste containers up to 5 000 l, top lifted and bottom emptied – Part 2: Additional requirements for underground or partly underground systems (EN 13071-2:2008+A1:2013)
- zamijenjena s: HRN EN 13071-2:2019

HZN/TO 528, Oprema za željeznice

HRN EN 16922:2017 en
Željeznički sustav – Stacionarna služba – Oprema za pražnjenje otpadne vode iz vozila (EN 16922:2017)
Railway applications – Ground based services – Vehicle waste water discharge equipment (EN 16922:2017)
- zamijenjena s: HRN EN 16922:2019

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

HRN EN 14492-2:2010 en
Granici – Vrtla i dizalice na strojni pogon – 2. dio: Dizalice na strojni pogon (EN 14492-2:2006+A1:2009+AC:2010)
Cranes – Power driven winches and hoists – Part 2: Power driven hoists (EN 14492-2:2006+A1:2009+AC:2010)
- zamijenjena s: HRN EN 14492-2:2019

HZN/TO 531, Plastika i guma

HRN EN ISO 305:2008 en
Plastika – Određivanje toplinske postojanosti poli(vinil-klorida), srodnih homopolimera i kopolimera koji sadrže klor i njihovih mješavina – Metoda promjene obojenja (ISO 305:1990; EN ISO 305:1999)
Plastics – Determination of thermal stability of poly(vinyl chloride), related chlorine-containing homopolymers and copolymers and their compounds – Discoloration method (ISO 305:1990; EN ISO 305:1999)
- zamijenjena s: HRN EN ISO 305:2019

HRN EN ISO 1110:2005 en
Plastika – Poliamidi – Ubrzano kondicioniranje ispitaka (ISO 1110:1995; EN ISO 1110:1997)
Plastics – Polyamides – Accelerated conditioning of test specimens (ISO 1110:1995; EN ISO 1110:1997)
- zamijenjena s: HRN EN ISO 1110:2019

HRN EN ISO 8986-1:2010 en
Plastika – Polibutenski (PB) prešani i ekstrudirani materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 8986-1:2009; EN ISO 8986-1:2009)
Plastics – Polybutene-1 (PB-1) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 8986-1:2009; EN ISO 8986-1:2009)
- zamijenjena s: HRN EN ISO 21302-1:2019

HRN EN ISO 8986-2:2010 en

Plastika – Polibutenski (PB) prešani i ekstrudirani materijali – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 8986-2:2009; EN ISO 8986-2:2009)
Plastics – Polybutene-1 (PB-1) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 8986-2:2009; EN ISO 8986-2:2009)
- zamijenjena s: HRN EN ISO 21302-2:2019

HRN EN ISO 13468-1:2008 en

Plastika – Određivanje ukupne svjetlosne propustnosti prozirnih materijala – 1. dio: Instrument s jednim snopom (ISO 13468-1:1996; EN ISO 13468-1:1996)
Plastics – Determination of total luminous transmittance of transparent materials – Part 1: Single-beam instrument (ISO 13468-1:1996; EN ISO 13468-1:1996)
- zamijenjena s: HRN EN ISO 13468-1:2019

HRN ISO 17422:2009 en

Plastika – Aspekti okoliša – Opće smjernice za njihovo uključivanje u norme (ISO 17422:2002)
Plastics – Environmental aspects – General guidelines for their inclusion in standards (ISO 17422:2002)
- zamijenjena s: HRN EN ISO 17422:2019

HZN/TO 544, Strojni elementi

HRN EN ISO 7053:2012 en

Vijci sa šesterokutnom prirubnom glavom (ISO 7053:2011; EN ISO 7053:2011)
Hexagon washer head tapping screws (ISO 7053:2011; EN ISO 7053:2011)
- zamijenjena s: HRN EN ISO 7053:2019

HRN EN ISO 15480:2005 en

Samonarezni vijci sa šesterokutnom prirubnom glavom (ISO 15480:1999; EN ISO 15480:1999)
Hexagon washer head drilling screws with tapping screw thread (ISO 15480:1999; EN ISO 15480:1999)
- zamijenjena s: HRN EN ISO 15480:2019

HZN/TO 558, Zaštita dišnih putova

HRN EN 13274-7:2008 en

Zaštitne naprave za disanje – Metode ispitivanja – 7. dio: Određivanje prodiranja kroz filter za čestice (EN 13274-7:2008)
Respiratory protective devices – Methods of test – Part 7: Determination of particle filter penetration (EN 13274-7:2008)
- zamijenjena s: HRN EN 13274-7:2019

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

HRN EN 12807:2009 en

Oprema i pribor za UNP – Prenosive, ponovno punjive, tvrdo lemljene čelične boce za ukapljeni naftni plin (UNP) – Projektiranje i izrada (EN 12807:2009)
LPG equipment and accessories – Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) – Design and construction (EN 12807:2009)
- zamijenjena s: HRN EN 12807:2019

HZN/TO 566, Mlijeko i mliječni proizvodi

HRN EN ISO 17678:2010 en

Mlijeko i mliječni proizvodi – Određivanje čistoće mliječne masti plinskom kromatografijom analizom triacilglicerola (Referentna metoda) (ISO 17678:2010; EN ISO 17678:2010)
Milk and milk products – Determination of milk fat purity by gas chromatographic analysis of triglycerides (Reference method) (ISO 17678:2010; EN ISO 17678:2010)
- zamijenjena s: HRN EN ISO 17678:2019

HZN/TO 568, Analiza hrane – horizontalne metode, mikrobiologija, posuđe i pribor u kontaktu s hranom

HRN ISO 16649-1:2001 en

Mikrobiologija hrane i stočne hrane – Metoda brojenja beta-glucuronidasa pozitivne Escherichia coli – 1. dio: Brojenje kolonija pri 44 °C uporabom membranske filtracije i 5-bromo-4-chloro-3-indolyl beta-D-glucuronide (ISO 16649-1:2001)
Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli – Part 1: Colony-count technique at 44 degrees C using membranes and 5-bromo-4-chloro-3-indolyl beta-D-glucuronide (ISO 16649-1:2001)
- zamijenjena s: HRN ISO 16649-1:2019

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

HRN EN 1069-1:2017 en

Vodeni tobogani – 1. dio: Sigurnosni zahtjevi i metode ispitivanja (EN 1069-1:2017)
Water slides – Part 1: Safety requirements and test methods (EN 1069-1:2017)
- zamijenjena s: HRN EN 1069-1:2019

HZN/TO E45, Nuklearna instrumentacija

HRN IEC 62465:2019 en

Nuklearne elektrane – Instrumentacija i kontrolni sustavi koji su bitni za sigurnost – Upravljanje starenjem sustava električnih vodova (IEC 62465:2010)
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of electrical cabling systems (IEC 62465:2010)
- zamijenjena s: HRN EN IEC 62465:2019

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

HRN EN 424:2003 en

Elastične podne obloge – Određivanje utjecaja simuliranog pomicanja noge namještaja (EN 424:2001)
Resilient floor coverings – Determination of the effect of simulated movement of a furniture leg (EN 424:2001)
- zamijenjena s: HRN EN ISO 16581:2019

HRN EN 686:2013 en

Elastične podne obloge – Specifikacija za linoleum sa ili bez uzorka na pjenastoj podlozi (EN 686:2011)
Resilient floor coverings – Specification for plain and decorative linoleum on a foam backing (EN 686:2011)
- zamijenjena s: HRN EN 686:2019

HRN EN 1814:2008 en

Tekstilne podne obloge – Određivanje otpornosti na oštećivanje odrezanih rubova ispitivanjem modificiranim Vettermannovim bubnjem (EN 1814:2005)
Textile floor coverings – Determination of resistance to damage at cut edges using the modified Vettermann drum test (EN 1814:2005)
- zamijenjena s: HRN EN ISO 10833:2019

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

HRN EN ISO 1518-1:2012 en

Boje i lakovi – Određivanje otpornosti na grebenje – 1. dio: Metoda konstantnog opterećenja (ISO 1518-1:2011; EN ISO 1518-1:2011)
Paints and varnishes – Determination of scratch resistance – Part 1: Constant-loading method (ISO 1518-1:2011; EN ISO 1518-1:2011)
- zamijenjena s: HRN EN ISO 1518-1:2019

HRN EN ISO 1518-2:2012 en

Boje i lakovi – Određivanje otpornosti na grebenje – 2. dio: Metoda promjenjivog opterećenja (ISO 1518-2:2011; EN ISO 1518-2:2011)
Paints and varnishes – Determination of scratch resistance – Part 2: Variable-loading method (ISO 1518-2:2011; EN ISO 1518-2:2011)
- zamijenjena s: HRN EN ISO 1518-2:2019

HRN EN 1939:2008 en

Samoljepive trake – Određivanje piling svojstava prijanjanja (EN 1939:2003)
Self adhesive tapes – Determination of peel adhesion properties (EN 1939:2003)
- zamijenjena s: HRN EN ISO 29862:2019

HRN EN 1943:2008 en

Samoljepive trake – Mjerenje statičkog smicanja prijanjanja (EN 1943:2002)
Self adhesive tapes – Measurement of static shear adhesion (EN 1943:2002)
- zamijenjena s: HRN EN ISO 29863:2019

HRN EN ISO 3251:2008 en

Boje, lakovi i plastike – Određivanje sadržaja nehlapivih tvari (ISO 3251:2008; EN ISO 3251:2008)
Paints, varnishes and plastics – Determination of non-volatile-matter content (ISO 3251:2008; EN ISO 3251:2008)
- zamijenjena s: HRN EN ISO 3251:2019

HRN EN ISO 6504-1:2006 en

Boje i lakovi – Određivanje pokrivne moći – 1. dio: Kubelka-Munkova metoda za bijele i svijetle boje (ISO 6504-1:1983; EN ISO 6504-1:2006)
Paints and varnishes – Determination of hiding power – Part 1: Kubelka-Munk method for white and light-coloured paints (ISO 6504-1:1983; EN ISO 6504-1:2006)
- zamijenjena s: HRN EN ISO 6504-1:2019

HRN EN ISO 9167-1:2011 en

Repičino sjeme – Određivanje udjela glukozinolata – 1. dio: Metoda tekućinske kromatografije visokog učinka (ISO 9167-1:1992; EN ISO 9167-1:1995)
Rapeseed – Determination of glucosinolates content – Part 1: Method using high-performance liquid chromatography (ISO 9167-1:1992; EN ISO 9167-1:1995)
- zamijenjena s: HRN EN ISO 9167:2019

HRN EN ISO 9167-1:2011/A1:2013 en

Repičino sjeme – Određivanje udjela glukozinolata – 1. dio: Metoda tekućinske kromatografije visokog učinka – Amandman 1 (ISO 9167-1:1992/Amd 1:2013; EN ISO 9167-1:1995/A1:2013)
Rapeseed – Determination of glucosinolates content – Part 1: Method using high-performance liquid chromatography – Amendment 1 (ISO 9167-1:1992/Amd 1:2013; EN ISO 9167-1:1995/A1:2013)
- zamijenjena s: HRN EN ISO 9167:2019

HRN EN ISO 9514:2005 en

Boje i lakovi – Određivanje uporabnog vremena mješavine višekomponentnih prekrivnih sustava – Priprema i kondicioniranje uzoraka i smjernice za ispitivanje (ISO 9514:2005; EN ISO 9514:2005)
Paints and varnishes – Determination of the pot life of multicomponent coating systems – Preparation and conditioning of samples and guidelines for testing (ISO 9514:2005; EN ISO 9514:2005)
- zamijenjena s: HRN EN ISO 9514:2019

HRN EN 14410:2008 en

Samoljepive trake – Mjerenje čvrstoće pucanja i produženja na mjestu pucanju (EN 14410:2003)
Self adhesive tapes – Measurement of breaking strength and elongation at break (EN 14410:2003)
- zamijenjena s: HRN EN ISO 29864:2019

HRN EN ISO 16014-5:2013 en

Plastika – Određivanje prosječne molekularne mase i raspodjele molekularne mase polimera upotrebom gel-filtracijske kromatografije – 5. dio: Metoda detekcije raspršenja svjetlosti (ISO 16014-5:2012; EN ISO 16014-5:2012)
Plastics – Determination of average molecular mass and molecular mass distribution of polymers using size-exclusion chromatography – Part 5: Method using light-scattering detection (ISO 16014-5:2012; EN ISO 16014-5:2012)
- zamijenjena s: HRN EN ISO 16014-5:2019

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

HRN EN ISO 4049:2011 en

Stomatologija – Restorativni materijali na bazi polimera (ISO 4049:2009; EN ISO 4049:2009)
Dentistry – Polymer-based restorative materials (ISO 4049:2009; EN ISO 4049:2009)
- zamijenjena s: HRN EN ISO 4049:2019

HRN EN ISO 27020:2011 en

Stomatologija – Bravice i tubusi za upotrebu u ortodontici (ISO 27020:2010; EN ISO 27020:2010)
Dentistry – Brackets and tubes for use in orthodontics (ISO 27020:2010; EN ISO 27020:2010)
- zamijenjena s: HRN EN ISO 27020:2019

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

HRN EN 2812:2011 en

Nizovi o zrakoplovstvu – Skidanje izolacije električnih kabela (EN 2812:2009)
Aerospace series – Stripping of electric cables (EN 2812:2009)
- zamijenjena s: HRN EN 2812:2019

HRN EN 3155-014:2008 en

Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 014. dio: Kontakti, električni, muški, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-014:2006)
Aerospace series – Electrical contacts used in elements of connection – Part 014: Contacts, electrical, male, type A, crimp, class S – Product standard (EN 3155-014:2006)
- zamijenjena s: HRN EN 3155-014:2019

HRN EN 3155-015:2008 en

Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 015. dio: Kontakti, električni, ženski, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-015:2006)
Aerospace series – Electrical contacts used in elements of connection – Part 015: Contacts, electrical, female, type A, crimp, class S – Product standard (EN 3155-015:2006)
- zamijenjena s: HRN EN 3155-015:2019

HRN EN 3155-078:2015 en

Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 078: Kontakti veličine 22 za normu EN 2997, električni, muški, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-078:2014)
Aerospace series – Electrical contacts used in elements of connection – Part 078: Contacts size 22 for EN 2997, electrical, male, type A, crimp, class S – Product standard (EN 3155-078:2014)
- zamijenjena s: HRN EN 3155-078:2019

HRN EN 3155-082:2015 en

Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 082: Kontakti, električni, ženski, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-082:2015)
Aerospace series – Electrical contacts used in elements of connection – Part 082: Contacts, electrical, female, type A, crimp, class S – Product standard (EN 3155-082:2015)
- zamijenjena s: HRN EN 3155-082:2019

HRN EN 3475-418:2008 en

Nizovi o zrakoplovstvu – Električni kabele za upotrebu u zrakoplovstvu – Metode ispitivanja – 418. dio: Toplinska izdržljivost vodiča (EN 3475-418:2007)
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 418: Thermal endurance for conductors (EN 3475-418:2007)
- zamijenjena s: HRN EN 3475-418:2019

HRN EN 3645-005:2008 en

Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 005. dio: Utičnica, bez dotoka zraka, okrugla priрубnica, ugradnja lemljenjem – Norma za proizvod (EN 3645-005:2006)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 005: Receptacle, hermetic, round flange, brassage mounting – Product standard (EN 3645-005:2006)
- zamijenjena s: HRN EN 3645-005:2019

HRN EN 3645-010:2008 en

Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 010. dio: Utičnica, bez dotoka zraka, okrugla priрубnica, ugradnja s kontra maticom – Norma za proizvod (EN 3645-010:2006)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 010: Receptacle, hermetic, round flange, jam nut mounting – Product standard (EN 3645-010:2006)
- zamijenjena s: HRN EN 3645-010:2019

HRN EN 3645-013:2008 en

Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 013. dio: Prazne utičnice – Norma za proizvod (EN 3645-013:2007)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 013: Dummy receptacle – Product standard (EN 3645-013:2007)
- zamijenjena s: HRN EN 3645-013:2019

HRN EN 3660-001:2016 en

Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 001: Tehnička specifikacija (EN 3660-001:2016)
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 001: Technical specification (EN 3660-001:2016)
- zamijenjena s: HRN EN 3660-001:2019

HRN EN 3818:2008 en

Nizovi o zrakoplovstvu – Matice, MJ navoji, od legure titana TI-P64001 – Razred snage: 1100 MPa (pri temperaturi okoline) – Tehnička specifikacija (EN 3818:2004)
Aerospace series – Bolts, MJ threads, in titanium alloy TI-P64001 – Strength class: 1100 MPa (at ambient temperature) – Technical specification (EN 3818:2004)
- zamijenjena s: HRN EN 3818:2019

HRN EN 4529-002:2008 en

Nizovi o zrakoplovstvu – Elementi električne i optičke veze – Utikač za brtvljenje – 002. dio: Indeks norme za proizvod (EN 4529-002:2006)
Aerospace series – Elements of electrical and optical connection – Sealing plugs – Part 002: Index of product standards (EN 4529-002:2006)
- zamijenjena s: HRN EN 4529-002:2019

HRN EN 4604-001:2011 en

Nizovi o zrakoplovstvu – Kabel, električni, za prijenos signala – 001. dio: Tehnička specifikacija (EN 4604-001:2009)
Aerospace series – Cable, electrical, for signal transmission – Part 001: Technical specification (EN 4604-001:2009)
- zamijenjena s: HRN EN 4604-001:2019

HRN EN 4608-001:2008 en

Nizovi o zrakoplovstvu – Kabel, električni, otporan na vatru – Jednostruka i višestruka upletena jezgra, oklopljeni (opleteni) i obloženi – Radna temperatura između – 65 °C i 260 °C – 001. dio: Tehnička specifikacija (EN 4608-001:2006)
Aerospace series – Cable, electrical, fire resistant – Single and twisted multicore assembly, screened (braided) and jacketed – Operating temperatures between – 65 °C and 260 °C – Part 001: Technical specification (EN 4608-001:2006)
- zamijenjena s: HRN EN 4608-001:2019

HRN EN 4681-005:2015 en

Zrakoplovstvo – Električni kabeli opće namjene s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 005: AZ porodica, jednožilni, za upotrebu u atmosferi niskog tlaka – Norma za proizvod (EN 4681-005:2015)
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 005: AZ family, single, for use in low pressure atmosphere – Product standard (EN 4681-005:2015)
- zamijenjena s: HRN EN 4681-005:2019

HRN EN 4681-006:2015 en

Zrakoplovstvo – Električni kabeli opće namjene s aluminijskim vodičem ili aluminijskim vodičem presvučenim bakrom – Dio 006: AZA porodica, jednožilni i višežilni sklop, za upotrebu u atmosferi niskog tlaka – Norma za proizvod (EN 4681-006:2015)
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 006: AZA family, single and multicore assembly, for use in low pressure atmosphere – Product standard (EN 4681-006:2015)
- zamijenjena s: HRN EN 4681-006:2019

HRN EN 4708-001:2014 en

Nizovi o zrakoplovstvu – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 001. dio: Tehnička specifikacija (EN 4708-001:2014)
Aerospace series – Sleeving; heat-shrinkable, for binding, insulation and identification – Part 001: Technical specification (EN 4708-001:2014)
- zamijenjena s: HRN EN 4708-001:2019

HRN EN 16495:2014 en

Upravljanje zračnim prometom – Informacijska sigurnost za organizacije koje pružaju potporu u operacijama civilnog zrakoplovstva (EN 16495:2014)
Air Traffic Management – Information security for organisations supporting civil aviation operations (EN 16495:2014)
- zamijenjena s: HRN EN 16495:2019

HRN EN 16604-10:2014 en

Održivost u svemiru – Obavijest o prihvaćanju ISO 24113: Svemirski sustavi – Zahtjevi za smanjivanje otpada u Zemljinj orbiti (EN 16604-10:2014)
Space sustainability – Adoption Notice of ISO 24113: Space systems – Space debris mitigation requirements (EN 16604-10:2014)
- zamijenjena s: HRN EN 16604-10:2019

HZN/TU W1, Energetska elektrotehnika 1

HRN EN 60086-4:2009 en

Primarne baterije – 4. dio: Sigurnost litijskih baterija (IEC 60086-4:2007; EN 60086-4:2007)
Primary batteries – Part 4: Safety of lithium batteries (IEC 60086-4:2007; EN 60086-4:2007)
- zamijenjena s: HRN EN 60086-4:2015

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 44, Zavarivanje i srodni postupci

• umjesto

HRN EN ISO 14174:2019

Dodatni i potrošni materijali za zavarivanje – Praškovi za elektrolučno zavarivanje pod praškom i **elektro-zavarivanje** pod troskom – Razredba (ISO 14174:2019; EN ISO 14174:2019)
Welding consumables – Fluxes for submerged arc welding and electroslag welding – Classification (ISO 14174:2019; EN ISO 14174:2019)

• treba biti

HRN EN ISO 14174:2019

Dodatni i potrošni materijali za zavarivanje – Praškovi za elektrolučno zavarivanje pod praškom i **elektrozavarivanje** pod troskom – Razredba (ISO 14174:2019; EN ISO 14174:2019)
Welding consumables – Fluxes for submerged arc welding and electroslag welding – Classification (ISO 14174:2019; EN ISO 14174:2019)

HZN/TO 218, Drvo

• umjesto

HRN EN 14342:2013

Drvene podne obloge – Značajke, ocjena sukladnosti i označavanje (EN 14342:2013)
Wood flooring and parquet – Characteristics, evaluation of conformity and marking (EN 14342:2013)

• treba biti

HRN EN 14342:2013

Drvene podne obloge i **parket** – Značajke, ocjena sukladnosti i označavanje (EN 14342:2013)
Wood flooring and parquet – Characteristics, evaluation of conformity and marking (EN 14342:2013)

HZN/TU U1, Opća elektrotehnika 1

• umjesto

HRN EN 61788-1:2008

Supravodljivost – 1. dio: **Kritično mjerenje** struje – Kritična istosmjerna struja (DC) Nb-Ti kompozitnih supravodiča (IEC 61788-1:2006; EN 61788-1:2007)
Superconductivity – Part 1: Critical current measurement – DC critical current of Nb-Ti composite superconductors (IEC 61788-1:2006; EN 61788-1:2007)

• treba biti

HRN EN 61788-1:2008

Supravodljivost – 1. dio: **Mjerenje kritične** struje – Kritična istosmjerna struja (DC) Nb-Ti kompozitnih supravodiča (IEC 61788-1:2006; EN 61788-1:2007)
Superconductivity – Part 1: Critical current measurement – DC critical current of Nb-Ti composite superconductors (IEC 61788-1:2006; EN 61788-1:2007)

- **umjesto**

HRN EN 61788-2:2008

Supravodljivost – 2. dio: **Kritično mjerenje** struje – Kritična istosmjerna struja (DC) Nb3Sn kompozitnih supravodiča (IEC 61788-2:2006; EN 61788-2:2007)
Superconductivity – Part 2: Critical current measurement – DC critical current of Nb3Sn composite superconductors (IEC 61788-2:2006; EN 61788-2:2007)

- **treba biti**

HRN EN 61788-2:2008

Supravodljivost – 2. dio: **Mjerenje kritične** struje – Kritična istosmjerna struja (DC) Nb3Sn kompozitnih supravodiča (IEC 61788-2:2006; EN 61788-2:2007)
Superconductivity – Part 2: Critical current measurement – DC critical current of Nb3Sn composite superconductors (IEC 61788-2:2006; EN 61788-2:2007)

- **umjesto**

HRN EN 61788-3:2008

Supravodljivost – 3. dio: **Kritično mjerenje** struje – Kritična istosmjerna (**DC**) struja Ag i/ili Ag legura obloženih Bi-2212 i Bi-2223 oksidom supravodiča (IEC 61788-3:2006; EN 61788-3:2006)
Superconductivity – Part 3: Critical current measurement – DC critical current of Ag- and/or Ag alloy-sheathed Bi-2212 and Bi-2223 oxide superconductors (IEC 61788-3:2006; EN 61788-3:2006)

- **treba biti**

HRN EN 61788-3:2008

Supravodljivost – 3. dio: **Mjerenje kritične** struje – Kritična istosmjerna struja (**DC**) Ag i/ili Ag legura obloženih Bi-2212 i Bi-2223 oksidom supravodiča (IEC 61788-3:2006; EN 61788-3:2006)
Superconductivity – Part 3: Critical current measurement – DC critical current of Ag- and/or Ag alloy-sheathed Bi-2212 and Bi-2223 oxide superconductors (IEC 61788-3:2006; EN 61788-3:2006)

2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju

01.020 Nazivlje (načela i usklađivanje)

**Međunarodna normizacija
ISO**

ISO 20228:2019
Interpreting services – Legal interpreting – Requirements

01.040.21 Mehanički sustavi i sastavni dijelovi za opću upotrebu (Rječnici)

**Međunarodna normizacija
ISO**

ISO 5593:2019
Rolling bearings – Vocabulary

01.040.29 Elektrotehnika (Rječnici)

**Međunarodna normizacija
IEC**

IEC 60633:2019
High-voltage direct current (HVDC) transmission – Vocabulary

01.040.43 Cestovna vozila (Rječnici)

**Međunarodna normizacija
ISO**

ISO 19642-1:2019
Road vehicles – Automotive cables – Part 1: Vocabulary and design guidelines

01.040.59 Tekstilna i kožarska tehnologija (Rječnici)

**Europska normizacija
CEN**

EN ISO 9092:2019
Nonwovens – Vocabulary (ISO 9092:2019)

01.040.85 Tehnologija papira (Rječnici)

**Međunarodna normizacija
ISO**

ISO 12625-1:2019
Tissue paper and tissue products – Part 1: Vocabulary

01.040.87 Industrija boja (Rječnici)

**Međunarodna normizacija
ISO**

ISO 18451-1:2019
Pigments, dyestuffs and extenders – Terminology – Part 1: General terms

01.075 Slovni simboli

**Europska normizacija
CENELEC**

EN IEC 60027-2:2019
Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics (IEC 60027-2:2019)

01.100.20 Crteži u strojarstvu

**Europska normizacija
CEN**

EN ISO 2553:2019
Welding and allied processes – Symbolic representation on drawings – Welded joints (ISO 2553:2019)

01.100.30 Konstrukcijski crteži

**Europska normizacija
CEN**

EN ISO 8560:2019
Technical drawings – Construction drawings – Representation of modular sizes, lines and grids (ISO 8560:2019)

03.060 Financije. Bankarstvo. Monetarni sustavi. Osiguranje

**Međunarodna normizacija
ISO**

ISO 17442:2019
Financial services – Legal entity identifier (LEI)

ISO/TR 21797:2019
Reference data for financial services – Overview of identification of financial instruments

03.080.99 Ostale usluge

**Međunarodna normizacija
ISO**

ISO 20228:2019
Interpreting services – Legal interpreting – Requirements

03.100.30 Upravljanje ljudskim resursima

**Međunarodna normizacija
ISO**

ISO/IEC 19788-7:2019
Information technology – Learning, education and training – Metadata for learning resources – Part 7: Bindings

03.120.30 Primjena statističkih metoda

**Međunarodna normizacija
ISO**

ISO/TR 20693:2019
Statistical methods for implementation of Six Sigma – Selected illustrations of distribution identification studies

03.120.99 Ostale norme koje se odnose na kvalitetu

**Međunarodna normizacija
IEC**

IEC 62881:2018/Corr.1:2019
Cause and effect matrix; Corrigendum 1

03.220.01 Prijevoz općenito

**Međunarodna normizacija
ISO**

ISO 17438-4:2019
Intelligent transport systems – Indoor navigation for personal and vehicle ITS station – Part 4: Requirements and specifications for interface between personal/vehicle and central ITS stations

03.220.20 Cestovni prijevoz

Međunarodna normizacija ISO

ISO 15638-22:2019
Intelligent transport systems – Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) – Part 22: Freight vehicle stability monitoring

07.100.30 Mikrobiologija hrane

Europska normizacija CEN

EN ISO 20976-1:2019
Microbiology of the food chain – Requirements and guidelines for conducting challenge tests of food and feed products – Part 1: Challenge tests to study growth potential, lag time and maximum growth rate (ISO 20976-1:2019)

11.040.40 Implantati za kirurgiju, protetiku i ortotiku

Međunarodna normizacija ISO

ISO 13782:2019
Implants for surgery – Metallic materials – Unalloyed tantalum for surgical implant applications

11.060.20 Stomatološka oprema

Europska normizacija CEN

EN ISO 7492:2019
Dentistry – Dental explorer (ISO 7492:2019)

11.080.01 Sterilizacija i dezinfekcija općenito

Europska normizacija CEN

EN ISO 11138-7:2019
Sterilization of health care products – Biological indicators – Part 7: Guidance for the selection, use and interpretation of results (ISO 11138-7:2019)

13.020.20 Ekogospodarstvo

Međunarodna normizacija ISO

ISO 37104:2019
Sustainable cities and communities – Transforming our cities – Guidance for practical local implementation of ISO 37101

13.020.40 Onečišćenje, nadzor nad onečišćenjem i zaštita od onečišćenja

Međunarodna normizacija ISO

ISO 14064-2:2019
Greenhouse gases – Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements

ISO 14064-3:2019
Greenhouse gases – Part 3: Specification with guidance for the verification and validation of greenhouse gas statements

13.040.20 Atmosfera okoliša

Međunarodna normizacija ISO

ISO 12219-9:2019
Interior air of road vehicles – Part 9: Determination of the emissions of volatile organic compounds from vehicle interior parts – Large bag method

13.040.30 Atmosfera u radnome prostoru

Europska normizacija CEN

EN 689:2018+AC:2019
Workplace exposure – Measurement of exposure by inhalation to chemical agents – Strategy for testing compliance with occupational exposure limit values

13.040.40 Emisije iz stacionarnih izvora

Europska normizacija CEN

EN 1822-1:2019
High efficiency air filters (EPA, HEPA and ULPA) – Part 1: Classification, performance testing, marking

CENELEC

EN 50632-1:2015/A1:2019
Electric motor-operated tools – Dust measurement Procedure – Part 1: General requirements

13.060.01 Kvaliteta vode općenito

Međunarodna normizacija ISO

ISO 24516-4:2019
Guidelines for the management of assets of water supply and wastewater systems – Part 4: Wastewater treatment plants, sludge treatment facilities, pumping stations, retention and detention facilities

13.060.30 Kanalizacijske vode

Međunarodna normizacija ISO

ISO 24516-4:2019
Guidelines for the management of assets of water supply and wastewater systems – Part 4: Wastewater treatment plants, sludge treatment facilities, pumping stations, retention and detention facilities

13.060.50 Ispitivanje voda na kemijske tvari

Europska normizacija CEN

EN ISO 12010:2019
Water quality – Determination of short-chain polychlorinated alkanes (SCCP) in water – Method using gas chromatography-mass spectrometry (GC-MS) and negative-ion chemical ionization (NIC) (ISO 12010:2019)

13.060.60 Ispitivanje fizikalnih svojstava vode

Međunarodna normizacija ISO

ISO 9698:2019
Water quality – Tritium – Test method using liquid scintillation counting

13.080.30 Biološka svojstva tla

Međunarodna normizacija
ISO

ISO 21285:2019
Soil quality – Inhibition of reproduction of the soil mite
(Hypoaspis aculeifer) by soil contaminants

13.110 Sigurnost strojeva

Europska normizacija
CEN

EN ISO 13851:2019
Safety of machinery – Two-hand control devices – Principles
for design and selection (ISO 13851:2019)

Međunarodna normizacija
ISO

ISO 19085-9:2019
Woodworking machines – Safety – Part 9: Circular saw
benches (with and without sliding table)

13.180 Ergonomija

Europska normizacija
CEN

EN ISO 9241-220:2019
Ergonomics of human-system interaction – Part 220: Processes
for enabling, executing and assessing human-centred design
within organizations (ISO 9241-220:2019)

13.220.10 Vatrogastvo

Međunarodna normizacija
ISO

ISO/TR 23107:2019
Criteria for assessment of new extinguishants for inclusion in
the ISO 14520 series

13.220.20 Zaštita od požara

Europska normizacija
CEN

EN 54-3:2014+A1:2019
Fire detection and fire alarm systems – Part 3: Fire alarm
devices – Sounders

EN 12259-9:2019
Fixed firefighting systems – Components for sprinkler and
water spray systems – Part 9: Deluge alarm valves

EN 13565-1:2019
Fixed firefighting systems – Foam systems – Part 1:
Requirements and test methods for components

EN 13565-2:2018+AC:2019
Fixed firefighting systems – Foam systems – Part 2: Design,
construction and maintenance

Međunarodna normizacija
ISO

ISO 6182-12:2019
Fire protection – Automatic sprinkler systems – Part 12:
Requirements and test methods for grooved-end components
for steel pipe systems

13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

Europska normizacija
CEN

CEN/TR 16829:2016+AC:2019
Fire and explosion prevention and protection for bucket
elevators

13.220.50 Vatrootpornost građevnih materijala i elemenata

Europska normizacija
CEN

EN 1366-13:2019
Fire resistance tests for service installations – Part 13:
Chimneys

EN 15269-11:2018+AC:2019
Extended application of test results for fire resistance and/
or smoke control for door, shutter and openable window
assemblies, including their elements of building hardware
– Part 11: Fire resistance for operable fabric curtains

13.230 Zaštita od eksplozija

Europska normizacija
CEN

CEN/TR 16829:2016+AC:2019
Fire and explosion prevention and protection for bucket
elevators

13.280 Zaštita od zračenja

Međunarodna normizacija
ISO

ISO 9698:2019
Water quality – Tritium – Test method using liquid scintillation
counting

IEC

IEC 62311:2019
Assessment of electronic and electrical equipment related to
human exposure restrictions for electromagnetic fields (0 Hz
to 300 GHz)

IEC/TR 62669:2019
Case studies supporting IEC 62232 – Determination of
RF field strength, power density and SAR in the vicinity
of radiocommunication base stations for the purpose of
evaluating human exposure

13.310 Zaštita od kriminala

Europska normizacija
CEN

EN 1143-1:2019
Secure storage units – Requirements, classification and
methods of test for resistance to burglary – Part 1: Safes, ATM
safes, strongroom doors and strongrooms

13.320 Alarmni sustavi i sustavi uzbunjivanja

Europska normizacija
CENELEC

EN 50131-4:2019
Alarm systems – Intrusion and hold-up systems – Part 4:
Warning devices

13.340.20 Zaštitna oprema za glavu

Međunarodna normizacija ISO

ISO/TR 22463:2019
Patient and client eye protectors for use during laser or intense light source (ILS) procedures – Guidance

13.340.40 Zaštita ruku i šaka

Međunarodna normizacija ISO

ISO 18889:2019
Protective gloves for pesticide operators and re-entry workers – Performance requirements

13.340.50 Zaštita nogu i stopala

Europska normizacija CEN

EN ISO 22568-1:2019
Foot and leg protectors – Requirements and test methods for footwear components – Part 1: Metallic toecaps (ISO 22568-1:2019)

EN ISO 22568-2:2019
Foot and leg protectors – Requirements and test methods for footwear component – Part 2: Non-metallic toecaps (ISO 22568-2:2019)

EN ISO 22568-3:2019
Foot and leg protectors – Requirements and test methods for footwear components – Part 3: Metallic perforation resistant inserts (ISO 22568-3:2019)

EN ISO 22568-4:2019
Foot and leg protectors – Requirements and test methods for footwear components – Part 4: Non-metallic perforation resistant inserts (ISO 22568-4:2019)

17.040.20 Svojstva površina

Europska normizacija CEN

EN ISO 25178-600:2019
Geometrical product specifications (GPS) – Surface texture: Areal – Part 600: Metrological characteristics for areal-topography measuring methods (ISO 25178-600:2019)

EN ISO 25178-607:2019
Geometrical product specifications (GPS) – Surface texture: Areal – Part 607: Nominal characteristics of non-contact (confocal microscopy) instrumentss (ISO 25178-607:2018)

17.040.40 Geometrijska specifikacija proizvoda (GPS)

Međunarodna normizacija ISO

ISO 20170:2019
Geometrical product specifications (GPS) – Decomposition of geometrical characteristics for manufacturing control

17.140.30 Buka koju proizvode prijevozna sredstva

Europska normizacija CEN

EN 15610:2019
Railway applications – Acoustics – Rail and wheel roughness measurement related to noise generation

17.220.20 Mjerenje električnih i magnetskih veličina

Europska normizacija CENELEC

EN 61010-1:2010/A1:2019/AC:2019
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010/A1:2016/COR1:2019)

17.220.99 Ostale norme koje se odnose na elektricitet i magnetizam

Europska normizacija CENELEC

EN 60674-2:2017/A1:2019
Specification for plastic films for electrical purposes – Part 2: Methods of test (IEC 60674-2:2016/A1:2019)

17.240 Mjerenja zračenja

Međunarodna normizacija IEC

IEC/TR 62669:2019
Case studies supporting IEC 62232 – Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure

19.080 Električna i elektronička ispitivanja

Europska normizacija CENELEC

EN 61010-1:2010/A1:2019/AC:2019
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010/A1:2016/COR1:2019)

19.100 Nerazorna ispitivanja

Međunarodna normizacija ISO

ISO 15549:2019
Non-destructive testing – Eddy current testing – General principles

21.100.10 Klizni ležajevi

Međunarodna normizacija ISO

ISO 4386-1:2019
Plain bearings – Metallic multilayer plain bearings – Part 1: Non-destructive ultrasonic testing of bond of thickness greater than or equal to 0,5 mm

ISO 4386-2:2019
Plain bearings – Metallic multilayer plain bearings – Part 2: Destructive testing of bond for bearing metal layer thicknesses greater than or equal to 2 mm

ISO 7905-3:2019
Plain bearings – Bearing fatigue – Part 3: Test on plain strips of a metallic multilayer bearing material

ISO 12129-2:2019
Plain bearings – Tolerances – Part 2: Tolerances on form and position and surface roughness for shafts and thrust collars

21.100.20 Valjni ležajevi

Međunarodna normizacija ISO

ISO 5593:2019
Rolling bearings – Vocabulary

21.220.10 Remenski pogon i njegovi sastavni dijelovi

Međunarodna normizacija ISO

ISO 21342:2019
Synchronous belt drives – Automotive belts and pulleys

23.040.01 Cjevovodne sastavni dijelovi i cjevovodi općenito

Europska normizacija CEN

- EN 1519-1:2019
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Polyethylene (PE) – Part 1: Requirements for pipes, fittings and the system
- EN 13480-1:2017/A1:2019
Metallic industrial piping – Part 1: General
- EN 13480-6:2017/A1:2019
Metallic industrial piping – Part 6: Additional requirements for buried piping

23.040.07 Cjevovodi i dijelovi za daljinsko grijanje

Europska normizacija CEN

- EN 13941-2:2019
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 2: Installation

23.040.10 Cijevi od lijevanog željeza i čelika

Europska normizacija CEN

- EN 10217-1:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties
- EN 10217-2:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties
- EN 10217-3:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties
- EN 10217-4:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 4: Electric welded non-alloy steel tubes with specified low temperature properties
- EN 10217-5:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties

EN 10217-6:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties

EN 13941-1:2019
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 1: Design

EN 13941-2:2019
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 2: Installation

23.040.20 Plastične cijevi

Europska normizacija CEN

- EN 17176-1:2019
Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure – Oriented unplasticized poly(vinyl chloride) (PVC-O) – Part 1: General
- EN 17176-2:2019
Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure – Oriented unplasticized poly(vinyl chloride) (PVC-O) – Part 2: Pipes
- EN 17176-5:2019
Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure – Oriented unplasticized poly(vinyl chloride) (PVC-O) – Part 5: Fitness for purpose of the system

23.040.45 Plastične spojnice

Europska normizacija CEN

- EN 17176-1:2019
Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure – Oriented unplasticized poly(vinyl chloride) (PVC-O) – Part 1: General
- EN 17176-5:2019
Plastics piping systems for water supply and for buried and above ground drainage, sewerage and irrigation under pressure – Oriented unplasticized poly(vinyl chloride) (PVC-O) – Part 5: Fitness for purpose of the system

23.060.01 Zaporni uređaji općenito

Europska normizacija CEN

EN 13175:2019
LPG Equipment and accessories – Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings

23.060.40 Regulatori tlaka

Europska normizacija CEN

EN 14071:2015+A1:2019
LPG equipment and accessories – Pressure relief valves for LPG pressure vessels – Ancillary equipment

CENELEC

EN IEC 60534-3-1:2019
Industrial-process control valves – Part 3-1: Dimensions – Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves (IEC 60534-3-1:2019)

23.080 Pumpe

Međunarodna normizacija IEC

- IEC 60335-2-51:2019
Household and similar electrical appliances – Safety – Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations

23.100.40 Cijevovodi i spojnice

Međunarodna normizacija ISO

- ISO 6149-1:2019
Connections for hydraulic fluid power and general use – Ports and stud ends with ISO 261 metric threads and O-ring sealing – Part 1: Ports with truncated housing for O-ring seal

23.120 Ventilatori. Klimatizacijski uređaji

Međunarodna normizacija ISO

- ISO 16358-1:2013/Amd 1:2019
Air-cooled air conditioners and air-to-air heat pumps – Testing and calculating methods for seasonal performance factors – Part 1: Cooling seasonal performance factor; Amendment 1

25.040.01 Sustavi industrijske automatizacije općenito

Međunarodna normizacija ISO

- ISO 16300-2:2019
Automation systems and integration – Interoperability of capability units for manufacturing application solutions – Part 2: Capability templates and software unit cataloguing
- ISO 20140-3:2019
Automation systems and integration – Evaluating energy efficiency and other factors of manufacturing systems that influence the environment – Part 3: Environmental performance evaluation data aggregation process

25.040.30 Industrijski roboti. Manipulatori

Međunarodna normizacija ISO

- ISO 18646-2:2019
Robotics – Performance criteria and related test methods for service robots – Part 2: Navigation

25.040.40 Mjerenje i upravljanje u industrijskim procesima

Europska normizacija CENELEC

- EN IEC 60534-3-1:2019
Industrial-process control valves – Part 3-1: Dimensions – Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves (IEC 60534-3-1:2019)
- EN IEC 62443-4-2:2019
Security for industrial automation and control systems – Part 4-2: Technical security requirements for IACS components (IEC 62443-4-2:2019)

Međunarodna normizacija IEC

- IEC 61131-10:2019
Programmable controllers – Part 10: PLC open XML exchange format

- IEC 61158-1:2019
Industrial communication networks – Fieldbus specifications – Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series

- IEC 61158-3-25:2019
Industrial communication networks – Fieldbus specifications – Part 3-25: Data-link layer service definition – Type 25 elements

- IEC 61158-4-21:2019
Industrial communication networks – Fieldbus specifications – Part 4-21: Data-link layer protocol specification – Type 21 elements

- IEC 61158-4-25:2019
Industrial communication networks – Fieldbus specifications – Part 4-25: Data-link layer protocol specification – Type 25 elements

- IEC 61158-5-2:2019
Industrial communication networks – Fieldbus specifications – Part 5-2: Application layer service definition – Type 2 elements

- IEC 61158-5-4:2019
Industrial communication networks – Fieldbus specifications – Part 5-4: Application layer service definition – Type 4 elements

- IEC 61158-5-10:2019
Industrial communication networks – Fieldbus specifications – Part 5-10: Application layer service definition – Type 10 elements

- IEC 61158-5-12:2019
Industrial communication networks – Fieldbus specifications – Part 5-12: Application layer service definition – Type 12 elements

- IEC 61158-5-19:2019
Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements

- IEC 61158-5-21:2019
Industrial communication networks – Fieldbus specifications – Part 5-21: Application layer service definition – Type 21 elements

- IEC 62881:2018/Corr.1:2019
Cause and effect matrix; Corrigendum 1

25.100.70 Abrazivi

Europska normizacija CEN

- EN 13236:2019
Safety requirements for superabrasive products

25.140.20 Električni alati

Europska normizacija CENELEC

- EN 50632-1:2015/A1:2019
Electric motor-operated tools – Dust measurement Procedure – Part 1: General requirements

25.160.20 Dodatni i potrošni materijali za zavarivanje

Međunarodna normizacija ISO

- ISO 14174:2019
Welding consumables – Fluxes for submerged arc welding and electroslag welding – Classification

- ISO 24598:2019
Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels – Classification

25.160.30 Oprema za zavarivanje

Europska normizacija CENELEC

EN IEC 60974-1:2018/A1:2019
Arc welding equipment – Part 1: Welding power sources
(IEC 60974-1:2017/A1:2019)

EN IEC 60974-2:2019
Arc welding equipment – Part 2: Liquid cooling systems
(IEC 60974-2:2019)

EN IEC 60974-5:2019
Arc welding equipment – Part 5: Wire feeders (IEC 60974-5:2019)

Međunarodna normizacija ISO

ISO 5171:2019
Gas welding equipment – Pressure gauges used in welding,
cutting and allied processes

25.160.40 Zavareni spojevi i zavari

Europska normizacija CEN

EN ISO 2553:2019
Welding and allied processes – Symbolic representation on
drawings – Welded joints (ISO 2553:2019)

Međunarodna normizacija ISO

ISO/TR 12998:2019
Mechanical joining – Guidelines for fatigue testing of joints

25.160.50 Tvrdo i meko lemljenje

Europska normizacija CEN

EN 16602-70-38:2019
Space product assurance – High-reliability soldering for
surface-mount and mixed technology

25.220.20 Površinska obrada

Europska normizacija CEN

EN ISO 2376:2019
Anodizing of aluminium and its alloys – Determination of
breakdown voltage and withstand voltage (ISO 2376:2019)

25.220.50 Emajli

Europska normizacija CEN

EN ISO 8289-2:2019
Vitreous and porcelain enamels – Low-voltage test for
detecting and locating defects – Part 2: Slurry test for profiled
surfaces (ISO 8289-2:2019)

EN ISO 11177:2019
Vitreous and porcelain enamels – Inside and outside
enamelled valves and pressure pipe fittings for untreated
and potable water supply – Quality requirements and testing
(ISO 11177:2019)

27.080 Dizalice topline

Međunarodna normizacija ISO

ISO 16358-1:2013/Amd 1:2019
Air-cooled air conditioners and air-to-air heat pumps – Testing
and calculating methods for seasonal performance factors
– Part 1: Cooling seasonal performance factor; Amendment 1

27.100 Elektrane općenito

Europska normizacija CENELEC

EN 50549-1:2019/AC:2019
Requirements for generating plants to be connected in
parallel with distribution networks – Part 1: Connection to a LV
distribution network – Generating plants up to and including
Type B

27.140 Hidroenergetika

Međunarodna normizacija IEC

IEC 60193:2019
Hydraulic turbines, storage pumps and pump-turbines – Model
acceptance tests

27.160 Solarna energetika

Međunarodna normizacija IEC

IEC 62892:2019
Extended thermal cycling of PV modules – Test procedure

27.180 Sustavi vjetroagregata

Europska normizacija CENELEC

EN IEC 61400-1:2019
Wind energy generation systems – Part 1: Design requirements
(IEC 61400-1:2019)

Međunarodna normizacija IEC

IEC 61400-3-1:2019
Wind energy generation systems – Part 3-1: Design
requirements for fixed offshore wind turbines

29.035.20 Plastični i gumeni izolacijski materijali

Europska normizacija CENELEC

EN 60674-2:2017/A1:2019
Specification for plastic films for electrical purposes – Part 2:
Methods of test (IEC 60674-2:2016/A1:2019)

29.040.20 Izolacijski plinovi

Međunarodna normizacija IEC

IEC 60480:2019
Specifications for the re-use of sulphur hexafluoride (SF₆) and
its mixtures in electrical equipment

29.060.20 Kabeli

Europska normizacija CENELEC

EN 50620:2017/A1:2019
Electric cables – Charging cables for electric vehicles

29.080.10 Izolatori

Međunarodna normizacija IEC

- IEC 61952-1:2019
Insulators for overhead lines – Composite line post insulators for AC systems with a nominal voltage greater than 1000 V – Part 1: Definitions, end fittings and designations

29.100.10 Magnetski sastavni dijelovi

Europska normizacija CENELEC

- EN IEC 63093-4:2019-07-03
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 4: RM-cores (IEC 63093-4:2019)
- EN IEC 63093-13:2019
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 13: PQ-cores (IEC 63093-13:2019)

Međunarodna normizacija IEC

- IEC 63093-12:2019
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 12: Ring-cores
- IEC 63093-14:2019
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 14: EFD-cores

29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

Europska normizacija CENELEC

- EN 60691:2016/A1:2019
Thermal-links – Requirements and application guide (IEC 60691:2015/A1:2019)

Međunarodna normizacija IEC

- IEC 60898-3:2019
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 3: Circuit-breakers for DC operation

29.120.70 Sklopnici (releji)

Europska normizacija CENELEC

- EN IEC 60255-181:2019
Measuring relays and protection equipment – Part 181: Functional requirements for frequency protection (IEC 60255-181:2019)

29.130.01 Rasklopni i upravljački uređaji općenito

Međunarodna normizacija IEC

- IEC 60480:2019
Specifications for the re-use of sulphur hexafluoride (SF₆) and its mixtures in electrical equipment

29.130.10 Visokonaponski rasklopni i upravljački uređaji

Europska normizacija CENELEC

- EN IEC 62271-209:2019
High-voltage switchgear and controlgear – Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV – Fluid-filled and extruded insulation cables – Fluid-filled and dry-type cable-terminations (IEC 62271-209:2019)

Međunarodna normizacija IEC

- IEC 62271-109:2019
High-voltage switchgear and controlgear – Part 109: Alternating-current series capacitor by-pass switches

29.130.20 Niskonaponski rasklopni i upravljački uređaji

Europska normizacija CENELEC

- EN 61439-3:2012/AC:2019
Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO) (IEC 61439-3:2012/COR2:2019)

29.140.10 Kape i držači svjetiljki

Europska normizacija CENELEC

- EN 60061-1:1993/A58:2018/AC:2019
Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamps Caps (IEC 60061-1:1993/A58:2018/COR1:2019)

29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

Međunarodna normizacija IEC

- IEC 61167:2018/COR1:2019
Metal halide lamps – Performance specification; Corrigendum 1

29.140.99 Ostale norme koje se odnose na svjetiljke

Europska normizacija CENELEC

- EN 62717:2017/A2:2019
LED modules for general lighting – Performance requirements (IEC 62717:2014/A2:2019)

29.160.20 Generatori

Europska normizacija CENELEC

- EN 50549-1:2019/AC:2019
Requirements for generating plants to be connected in parallel with distribution networks – Part 1: Connection to a LV distribution network – Generating plants up to and including Type B
- EN 50549-2:2019/AC:2019
Requirements for generating plants to be connected in parallel with distribution networks – Part 2: Connection to a MV distribution network – Generating plants up to and including Type B

29.180 Transformatori. Prigušnice

Europska normizacija CENELEC

EN IEC 60076-22-3:2019
Power transformers – Part 22-3: Power transformer and reactor fittings – Insulating liquid to air heat exchangers (IEC 60076-22-3:2019)

EN IEC 60076-22-4:2019
Power transformers – Part 22-4: Power transformer and reactor fittings – Insulating liquid to water heat exchangers (IEC 60076-22-4:2019)

29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

Europska normizacija CENELEC

EN IEC 62909-2:2019
Bi-directional grid-connected power converters – Part 2: Interface of GPCPC and distributed energy resources (IEC 62909-2:2019)

Međunarodna normizacija IEC

IEC 60633:2019
High-voltage direct current (HVDC) transmission – Vocabulary

29.220.01 Galvanski članci i baterije općenito

Međunarodna normizacija IEC

IEC 62281:2019
Safety of primary and secondary lithium cells and batteries during transport

29.220.10 Primarni članci i baterije

Međunarodna normizacija IEC

IEC 60086-4:2019
Primary batteries – Part 4: Safety of lithium batteries

29.220.20 Kiseli sekundarni članci i baterije

Europska normizacija CENELEC

EN IEC 62902:2019
Secondary cells and batteries – Marking symbols for identification of their chemistry (IEC 62902:2019)

29.220.30 Alkalni sekundarni članci i baterije

Europska normizacija CENELEC

EN IEC 62902:2019
Secondary cells and batteries – Marking symbols for identification of their chemistry (IEC 62902:2019)

29.240.20 Vodovi za prijenos i razdiobu električne energije

Međunarodna normizacija IEC

IEC 61952-1:2019
Insulators for overhead lines – Composite line post insulators for AC systems with a nominal voltage greater than 1000 V – Part 1: Definitions, end fittings and designations

29.260.20 Električni uređaji za eksplozivnu atmosferu

Europska normizacija CENELEC

EN IEC 60079-15:2019
Explosive atmospheres – Part 15: Equipment protection by type of protection “n” (IEC 60079-15:2017)

Međunarodna normizacija IEC

IEC 60079-0 Interpretation Sheet 1:2019
Explosive atmospheres – Part 0: Equipment – General requirements; Interpretation Sheet 1

IEC 60079-11 Interpretation Sheet 4:2019
Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”; Interpretation sheet 4

IEC 60079-29-1 Interpretation Sheet 1:2019
Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases; Interpretation sheet 1

IEC 60079-29-1 Interpretation Sheet 2:2019
Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases; Interpretation sheet 2

29.260.99 Ostala električna oprema za rad u posebnim uvjetima

Međunarodna normizacija IEC

IEC 61892-1:2019
Mobile and fixed offshore units – Electrical installations – Part 1: General requirements and conditions

IEC 61892-2:2019
Mobile and fixed offshore units – Electrical installations – Part 2: System design

IEC 61892-3:2019
Mobile and fixed offshore units – Electrical installations – Part 3: Equipment

IEC 61892-4:2019
Mobile and fixed offshore units – Electrical installations – Part 4: Cables

IEC 61892-5:2019
Mobile and fixed offshore units – Electrical installations – Part 5: Mobile units

IEC 61892-6:2019
Mobile and fixed offshore units – Electrical installations – Part 6: Installation

IEC 61892-7:2019
Mobile and fixed offshore units – Electrical installations – Part 7: Hazardous areas

29.280 Oprema za električnu vuču

Europska normizacija CENELEC

EN 50121-5:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus

31.020 Elektronički sastavni dijelovi općenito

Europska normizacija CENELEC

EN IEC 60027-2:2019
Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics (IEC 60027-2:2019)

31.080.01 Poluvodičke naprave općenito

Međunarodna normizacija IEC

- IEC 60749-18:2019
Semiconductor devices – Mechanical and climatic test methods – Part 18: Ionizing radiation (total dose)
- IEC 62951-2:2019
Semiconductor devices – Flexible and stretchable semiconductor devices – Part 2: Evaluation method for electron mobility, sub-threshold swing, and threshold voltage of flexible devices

31.080.99 Ostale poluvodičke naprave

Međunarodna normizacija IEC

- IEC 62047-31:2019
Semiconductor devices – Micro-electromechanical devices – Part 31: Four-point bending test method for interfacial adhesion energy of layered MEMS materials
- IEC 62047-33:2019
Semiconductor devices – Micro-electromechanical devices – Part 33: MEMS piezoresistive pressure-sensitive device
- IEC 62047-34:2019
Semiconductor devices – Micro-electromechanical devices – Part 34: Test methods for MEMS piezoresistive pressure-sensitive device on wafer
- IEC 62047-36:2019
Semiconductor devices – Micro-electromechanical devices – Part 36: Environmental and dielectric withstand test methods for MEMS piezoelectric thin films

31.120 Elektronički uređaji za prikazivanje

Međunarodna normizacija IEC

- IEC 61747-40-1:2019
Liquid crystal display devices – Part 40-1: Mechanical testing of display cover glass for mobile devices – Guidelines
- IEC/TR 62595-1-3:2019
Display lighting unit – Part 1-3: Lighting units with arbitrary shapes

31.140 Piezoelektrične naprave

Međunarodna normizacija IEC

- IEC 62047-33:2019
Semiconductor devices – Micro-electromechanical devices – Part 33: MEMS piezoresistive pressure-sensitive device
- IEC 62047-34:2019
Semiconductor devices – Micro-electromechanical devices – Part 34: Test methods for MEMS piezoresistive pressure-sensitive device on wafer
- IEC 62047-36:2019
Semiconductor devices – Micro-electromechanical devices – Part 36: Environmental and dielectric withstand test methods for MEMS piezoelectric thin films

31.200 Integrirani krugovi. Mikroelektronika

Europska normizacija CENELEC

- EN IEC 62433-1:2019
EMC IC modelling – Part 1: General modelling framework (IEC 62433-1:2019)

31.220.01 Elektromehanički sastavni dijelovi općenito

Međunarodna normizacija IEC

- IEC 62047-31:2019
Semiconductor devices – Micro-electromechanical devices – Part 31: Four-point bending test method for interfacial adhesion energy of layered MEMS materials
- IEC 62047-33:2019
Semiconductor devices – Micro-electromechanical devices – Part 33: MEMS piezoresistive pressure-sensitive device
- IEC 62047-34:2019
Semiconductor devices – Micro-electromechanical devices – Part 34: Test methods for MEMS piezoresistive pressure-sensitive device on wafer
- IEC 62047-36:2019
Semiconductor devices – Micro-electromechanical devices – Part 36: Environmental and dielectric withstand test methods for MEMS piezoelectric thin films
- IEC 62951-2:2019
Semiconductor devices – Flexible and stretchable semiconductor devices – Part 2: Evaluation method for electron mobility, sub-threshold swing, and threshold voltage of flexible devices

31.220.10 Utikačke i utičničke naprave. Konektori

Europska normizacija CENELEC

- EN IEC 60512-99-002:2019
Connectors for electrical and electronic equipment – Tests and measurements – Part 99-002: Endurance test schedules – Test 99b: Test schedule for unmating under electrical load (IEC 60512-99-002:2019)

31.240 Mehaničke konstrukcije za elektroničku opremu

Europska normizacija CENELEC

- EN IEC 62966-1:2019
Mechanical structures for electrical and electronic equipment – Aisle containment for IT cabinets – Part 1: Dimensions and mechanical requirements (IEC 62966-1:2019)

31.260 Optoelektronika. Laserska oprema

Europska normizacija CENELEC

- EN IEC 60825-12:2019
Safety of laser products – Part 12: Safety of free space optical communication systems used for transmission of information (IEC 60825-12:2019)

Međunarodna normizacija IEC

- IEC/TR 62595-1-3:2019
Display lighting unit – Part 1-3: Lighting units with arbitrary shapes

33.020 Telekomunikacije općenito

Europska normizacija CENELEC

- EN IEC 60027-2:2019
Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics (IEC 60027-2:2019)

ETSI

ETSI ES 202781 V 1.7.1:2019
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Configuration and Deployment Support

ETSI ES 203022 V 1.3.1:2019
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Advanced Matching

33.040.01 Telekomunikacijski sustavi općenito

Europska normizacija ETSI

EN 319532-3 V 1.2.1:2019
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 3: Formats

ETSI TS 119403-2 V 1.2.1:2019
Electronic Signatures and Infrastructures (ESI) – Trust Service Provider Conformity Assessment – Part 2: Additional requirements for Conformity Assessment Bodies auditing Trust Service Providers that issue Publicly-Trusted Certificates

ETSI EG 203602 V 1.1.1:2019
User Group – User Centric Approach: Guidance for users – Best practices to interact in the Digital Ecosystem

33.040.35 Telefonske mreže

Europska normizacija ETSI

ETSI TS 102232-5 V 3.10.1:2019
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 5: Service-specific details for IP Multimedia Services

ETSI TS 102232-7 V 3.6.1:2019
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services

ETSI TS 103221-1 V 1.4.1:2019
Lawful Interception (LI) – Part 1: Internal Network Interface X1 for Lawful Interception

ETSI TS 103280 V 2.3.1:2019
Lawful Interception (LI) – Dictionary for common parameters

33.040.40 Mreže za prijenos podataka

Europska normizacija ETSI

ETSI TS 103327 V 1.1.1:2019
Smart Body Area Networks (SmartBAN) – Service and application standardized enablers and interfaces, APIs and infrastructure for interoperability management

ETSI GS NFV-IFA 005 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 007 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 010 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Functional requirements specification

ETSI GS NFV-IFA 011 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – VNF Descriptor and Packaging Specification

ETSI GS NFV-IFA 013 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 014 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-IFA 014 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-SOL 002 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Ve-Vnfm Reference Point

ETSI GS NFV-SOL 003 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Or-Vnfm Reference Point

ETSI GS NFV-SOL 004 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – VNF Package specification

33.040.99 Ostala oprema za komunikacijske sustave

Europska normizacija ETSI

ETSI TS 103571-1 V 1.1.1:2019
Core Network and Interoperability Testing (INT) – Diameter Conformance testing for the Sh/Dh interfaces – (3GPPTM Release 13) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 103571-2 V 1.1.1:2019
Core Network and Interoperability Testing (INT) – Diameter Conformance testing for Sh/Dh interfaces – (3GPPTM Release 13) – Part 2: Test Suite Structure (TSS) and Test Purposes (TP)

33.050.01 Telekomunikacijska terminalna oprema općenito

Europska normizacija ETSI

EN 300132-2 V 2.6.1:2019
Environmental Engineering (EE) – Power supply interface at the input of Information and Communication Technology (ICT) equipment – Part 2: 48 V Direct Current (DC)

33.060.20 Prijamna i odašiljačka oprema

Europska normizacija ETSI

EN 301489-4 V 3.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 4: Specific conditions for fixed radio links and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-50 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-51 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-53 V 1.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment – Harmonised standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

33.070.01 Usluge pokretne mreže općenito

Europska normizacija ETSI

EN 301489-34 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 34: Specific conditions for External Power Supply (EPS) for mobile phones – Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU

Međunarodna normizacija IEC

IEC/TR 62669:2019
Case studies supporting IEC 62232 – Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure

33.070.50 Globalni sustavi za pokretne komunikacije (GSM)

Europska normizacija ETSI

ETSI TR 121900 V 15.2.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Technical Specification Group working methods (3GPP TR 21.900 version 15.2.0 Release 15)

ETSI TS 123007 V 14.6.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 14.6.0 Release 14)

ETSI TS 123040 V 15.3.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of the Short Message Service (SMS) (3GPP TS 23.040 version 15.3.0 Release 15)

ETSI TS 123041 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of Cell Broadcast Service (CBS) (3GPP TS 23.041 version 15.5.0 Release 15)

ETSI TS 123122 V 15.7.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 15.7.0 Release 15)

ETSI TS 123228 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Stage 2 (3GPP TS 23.228 version 15.4.0 Release 15)

ETSI TS 123285 V 14.8.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for V2X services (3GPP TS 23.285 version 14.8.0 Release 14)

ETSI TS 123285 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for V2X services (3GPP TS 23.285 version 15.3.0 Release 15)

ETSI TS 123401 V 15.7.0:2019
LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 15.7.0 Release 15)

ETSI TS 123501 V 15.5.0:2019
5G – System architecture for the 5G System (5GS) (3GPP TS 23.501 version 15.5.0 Release 15)

ETSI TS 123503 V 15.5.0:2019
5G – Policy and charging control framework for the 5G System (5GS) – Stage 2 (3GPP TS 23.503 version 15.5.0 Release 15)

ETSI TS 123682 V 15.8.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 version 15.8.0 Release 15)

ETSI TS 124011 V 15.3.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (3GPP TS 24.011 version 15.3.0 Release 15)

ETSI TS 124229 V 11.29.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 11.29.0 Release 11)

ETSI TS 124229 V 12.23.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 12.23.0 Release 12)

ETSI TS 124229 V 13.16.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 13.16.0 Release 13)

ETSI TS 124229 V 14.11.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 14.11.0 Release 14)

ETSI TS 124229 V 15.6.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 15.6.0 Release 15)

ETSI TS 124237 V 14.7.0:2019
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 14.7.0 Release 14)

ETSI TS 124237 V 15.5.0:2019
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 15.5.0 Release 15)

ETSI TS 124302 V 10.8.1:2019
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 10.8.1 Release 10)

ETSI TS 124323 V 14.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP IP Multimedia Subsystem (IMS) service level tracing Management Object (MO) (3GPP TS 24.323 version 14.1.0 Release 14)

- ETSI TS 124323 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP IP Multimedia Subsystem (IMS) service level tracing Management Object (MO) (3GPP TS 24.323 version 15.1.0 Release 15)
- ETSI TS 124390 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS – Stage 3 (3GPP TS 24.390 version 15.1.0 Release 15)
- ETSI TS 124611 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – 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 15.1.0 Release 15)
- ETSI TS 125104 V 15.5.0:2019
Universal Mobile Telecommunications System (UMTS) – Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 15.5.0 Release 15)
- ETSI TS 125141 V 15.4.0:2019
Universal Mobile Telecommunications System (UMTS) – Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 15.4.0 Release 15)
- ETSI TS 125461 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – UTRAN lunt interface: Layer 1 (3GPP TS 25.461 version 15.3.0 Release 15)
- ETSI TS 125466 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – UTRAN lunt interface: Application part (3GPP TS 25.466 version 15.3.0 Release 15)
- ETSI TS 126118 V 15.1.0:2019
5G – 3GPP Virtual reality profiles for streaming applications (3GPP TS 26.118 version 15.1.0 Release 15)
- ETSI TS 126173 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – ANSI-C code for the Adaptive Multi-Rate – Wideband (AMR-WB) speech codec (3GPP TS 26.173 version 15.1.0 Release 15)
- ETSI TS 126247 V 15.5.0:2019
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 15.5.0 Release 15)
- ETSI TS 126346 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 15.3.0 Release 15)
- ETSI TS 126347 V 15.1.0:2019
LTE – Multimedia Broadcast/Multicast Service (MBMS) – Application Programming Interface and URL (3GPP TS 26.347 version 15.1.0 Release 15)
- ETSI TS 126442 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (fixed-point) (3GPP TS 26.442 version 15.1.0 Release 15)
- ETSI TS 126443 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – ANSI C code (floating-point) (3GPP TS 26.443 version 15.1.0 Release 15)
- ETSI TS 126444 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Codec for Enhanced Voice Services (EVS) – Test sequences (3GPP TS 26.444 version 15.1.0 Release 15)
- ETSI TS 127007 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – AT command set for User Equipment (UE) (3GPP TS 27.007 version 15.4.0 Release 15)
- ETSI TS 128305 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Control and monitoring of Power, Energy and Environmental (PEE) parameters Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.305 version 15.1.0 Release 15)
- ETSI TS 128526 V 15.1.0:2019
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Procedures (3GPP TS 28.526 version 15.1.0 Release 15)
- ETSI TS 128528 V 15.1.0:2019
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Stage 3 (3GPP TS 28.528 version 15.1.0 Release 15)
- ETSI TS 128530 V 15.1.0:2019
5G – Management and orchestration – Concepts, use cases and requirements (3GPP TS 28.530 version 15.1.0 Release 15)
- ETSI TS 128531 V 15.1.0:2019
5G – Management and orchestration – Provisioning (3GPP TS 28.531 version 15.1.0 Release 15)
- ETSI TS 128532 V 15.1.0:2019
5G – Management and orchestration – Generic management services (3GPP TS 28.532 version 15.1.0 Release 15)
- ETSI TS 128533 V 15.1.0:2019
5G – Management and orchestration – Architecture framework (3GPP TS 28.533 version 15.1.0 Release 15)
- ETSI TS 128540 V 15.1.0:2019
5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 1 (3GPP TS 28.540 version 15.1.0 Release 15)
- ETSI TS 128541 V 15.1.0:2019
5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 2 and stage 3 (3GPP TS 28.541 version 15.1.0 Release 15)
- ETSI TS 128545 V 15.1.0:2019
5G – Management and orchestration – Fault Supervision (FS) (3GPP TS 28.545 version 15.1.0 Release 15)
- ETSI TS 128550 V 15.0.0:2019
5G – Management and orchestration – Performance assurance (3GPP TS 28.550 version 15.0.0 Release 15)
- ETSI TS 128552 V 15.1.0:2019
5G – Management and orchestration – 5G performance measurements (3GPP TS 28.552 version 15.1.0 Release 15)
- ETSI TS 128554 V 15.1.0:2019
5G – Management and orchestration – 5G end to end Key Performance Indicators (KPI) (3GPP TS 28.554 version 15.1.0 Release 15)
- ETSI TS 128622 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.622 version 15.2.0 Release 15)
- ETSI TS 128623 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.623 version 15.1.0 Release 15)
- ETSI TS 128658 V 15.3.0:2019
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 15.3.0 Release 15)
- ETSI TS 128662 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.662 version 15.1.0 Release 15)

- ETSI TS 128663 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.663 version 15.1.0 Release 15)
- ETSI TS 128708 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.708 version 15.2.0 Release 15)
- ETSI TS 128709 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.709 version 15.2.0 Release 15)
- ETSI TS 129002 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 15.4.0 Release 15)
- ETSI TS 129007 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (3GPP TS 29.007 version 15.1.0 Release 15)
- ETSI TS 129010 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Information element mapping between Mobile Station – Base Station System (MS – BSS) and Base Station System – Mobile-services Switching Centre (BSS – MSC) – Signalling Procedures and the Mobile Application Part (MAP) (3GPP TS 29.010 version 15.1.0 Release 15)
- ETSI TS 129060 V 15.3.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 15.3.0 Release 15)
- ETSI TS 129061 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 15.5.0 Release 15)
- ETSI TS 129163 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 15.5.0 Release 15)
- ETSI TS 129165 V 15.6.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 15.6.0 Release 15)
- ETSI TS 129212 V 15.5.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 15.5.0 Release 15)
- ETSI TS 129213 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 15.5.0 Release 15)
- ETSI TS 129214 V 15.5.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 15.5.0 Release 15)
- ETSI TS 129230 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 15.5.0 Release 15)
- ETSI TS 129235 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 15.1.0 Release 15)
- ETSI TS 129272 V 15.6.0:2019
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 15.6.0 Release 15)
- ETSI TS 129274 V 15.6.0:2019
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 15.6.0 Release 15)
- ETSI TS 129281 V 15.5.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – General Packet Radio System (GPRS) Tunnelling Protocol User Plane (GTPv1-U) (3GPP TS 29.281 version 15.5.0 Release 15)
- ETSI TS 129303 V 15.4.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Domain Name System Procedures – Stage 3 (3GPP TS 29.303 version 15.4.0 Release 15)
- ETSI TS 129328 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Sh interface – Signalling flows and message contents (3GPP TS 29.328 version 15.5.0 Release 15)
- ETSI TS 129336 V 15.5.0:2019
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 15.5.0 Release 15)
- ETSI TS 129338 V 15.1.0:2019
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 15.1.0 Release 15)
- ETSI TS 131102 V 15.5.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 15.5.0 Release 15)
- ETSI TS 131103 V 14.6.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the IP Multimedia Services Identity Module (ISIM) application (3GPP TS 31.103 version 14.6.0 Release 14)
- ETSI TS 131103 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the IP Multimedia Services Identity Module (ISIM) application (3GPP TS 31.103 version 15.5.0 Release 15)
- ETSI TS 131111 V 14.8.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111 version 14.8.0 Release 14)
- ETSI TS 131115 V 15.0.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Secured packet structure for (Universal) Subscriber Identity Module (USIM) Toolkit applications (3GPP TS 31.115 version 15.0.0 Release 15)

- ETSI TS 131116 V 15.0.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Remote APDU Structure for (U)SIM Toolkit applications
(3GPP TS 31.116 version 15.0.0 Release 15)
- ETSI TS 131121 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – UICC-terminal interface – Universal Subscriber
Identity Module (USIM) application test specification
(3GPP TS 31.121 version 15.3.0 Release 15)
- ETSI TS 131131 V 15.0.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– C-language binding to (U)SIMAPI (3GPP TS 31.131 version 15.0.0
Release 15)
- ETSI TS 132156 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Fixed Mobile Convergence
(FMC) model repertoire (3GPP TS 32.156 version 15.1.0
Release 15)
- ETSI TS 132158 V 15.1.0:2019
LTE – 5G – Management and orchestration – Design rules for
REpresentational State Transfer (REST) Solution Sets (SS)
(3GPP TS 32.158 version 15.1.0 Release 15)
- ETSI TS 132240 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – Charging architecture and principles
(3GPP TS 32.240 version 15.4.0 Release 15)
- ETSI TS 132251 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – Packet Switched (PS) domain charging
(3GPP TS 32.251 version 15.4.0 Release 15)
- ETSI TS 132254 V 15.1.0:2019
LTE – 5G – Telecommunication management – Charging
management – Exposure function Northbound
Application Program Interfaces (APIs) charging
(3GPP TS 32.254 version 15.1.0 Release 15)
- ETSI TS 132255 V 15.1.0:2019
5G – Telecommunication management – Charging
management – 5G data connectivity domain charging – Stage 2
(3GPP TS 32.255 version 15.1.0 Release 15)
- ETSI TS 132260 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – IP Multimedia Subsystem (IMS) charging
(3GPP TS 32.260 version 15.1.0 Release 15)
- ETSI TS 132274 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – Short Message Service (SMS) charging
(3GPP TS 32.274 version 15.1.0 Release 15)
- ETSI TS 132290 V 15.2.0:2019
5G – Telecommunication management – Charging
management – 5G system – Services, operations and
procedures of charging using Service Based Interface (SBI)
(3GPP TS 32.290 version 15.2.0 Release 15)
- ETSI TS 132291 V 15.1.0:2019
5G – Telecommunication management – Charging
management – 5G system, charging service – Stage 3
(3GPP TS 32.291 version 15.1.0 Release 15)
- ETSI TS 132297 V 15.2.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – Charging Data Record (CDR) file format and
transfer (3GPP TS 32.297 version 15.2.0 Release 15)
- ETSI TS 132298 V 15.5.1:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging
management – Charging Data Record (CDR) parameter
description (3GPP TS 32.298 version 15.5.1 Release 15)
- ETSI TS 132299 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
– Charging management – Diameter charging applications
(3GPP TS 32.299 version 15.5.0 Release 15)
- ETSI TS 132425 V 15.2.0:2019
LTE – Telecommunication management – Performance
Management (PM) – Performance measurements Evolved
Universal Terrestrial Radio Access Network (E-UTRAN)
(3GPP TS 32.425 version 15.2.0 Release 15)
- ETSI TS 132426 V 15.2.0:2019
LTE – Telecommunication management – Performance
Management (PM) – Performance measurements Evolved
Packet Core (EPC) network (3GPP TS 32.426 version 15.2.0
Release 15)
- ETSI TS 132432 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
– Performance measurement: File format definition
(3GPP TS 32.432 version 15.1.0 Release 15)
- ETSI TS 132450 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Key
Performance Indicators (KPI) for Evolved Universal
Terrestrial Radio Access Network (E-UTRAN): Definitions
(3GPP TS 32.450 version 15.1.0 Release 15)
- ETSI TS 132451 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Key Performance
Indicators (KPI) for Evolved Universal Terrestrial
Radio Access Network (E-UTRAN) – Requirements
(3GPP TS 32.451 version 15.1.0 Release 15)
- ETSI TS 133102 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS) – 3G
security – Security architecture (3GPP TS 33.102 version 15.1.0
Release 15)
- ETSI TS 133107 V 15.4.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Digital cellular telecommunications system (Phase 2+)
(GSM) – 3G security – Lawful interception architecture and
functions (3GPP TS 33.107 version 15.4.0 Release 15)
- ETSI TS 133108 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Digital cellular telecommunications system (Phase 2+) (GSM)
– 3G security – Handover interface for Lawful Interception (LI)
(3GPP TS 33.108 version 15.3.0 Release 15)
- ETSI TS 133117 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Catalogue of general security assurance requirements
(3GPP TS 33.117 version 15.2.0 Release 15)
- ETSI TS 133122 V 15.2.0:2019
LTE – 5G – Security aspects of Common API Framework
(CAPIF) for 3GPP northbound APIs (3GPP TS 33.122 version
15.2.0 Release 15)
- ETSI TS 133126 V 15.1.0:2019
LTE – 5G – Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– Lawful Interception requirements (3GPP TS 33.126 version 15.1.0
Release 15)
- ETSI TS 133128 V 15.0.0:2019
LTE – 5G – Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– Security – Protocol and procedures for Lawful Interception (LI)
– Stage 3 (3GPP TS 33.128 version 15.0.0 Release 15)

- ETSI TS 133210 V 15.2.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – 3G security – Network Domain Security (NDS)
– IP network layer security (3GPP TS 33.210 version 15.2.0 Release 15)
- ETSI TS 133220 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – 5G – Generic Authentication Architecture
(GAA) – Generic Bootstrapping Architecture (GBA)
(3GPP TS 33.220 version 15.4.0 Release 15)
- ETSI TS 133310 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE
– Network Domain Security (NDS) – Authentication Framework
(AF) (3GPP TS 33.310 version 15.2.0 Release 15)
- ETSI TS 133401 V 15.6.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – 3GPP System Architecture Evolution (SAE) – Security
architecture (3GPP TS 33.401 version 15.6.0 Release 15)
- ETSI TS 133501 V 15.3.1:2019
5G – Security architecture and procedures for 5G System
(3GPP TS 33.501 version 15.3.1 Release 15)
- ETSI TS 134229-3 V 15.0.0:2019
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 15.0.0 Release 15)
- ETSI TS 136104 V 15.5.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Base Station (BS) radio transmission and reception
(3GPP TS 36.104 version 15.5.0 Release 15)
- ETSI TS 136113 V 15.3.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Base Station (BS) and repeater ElectroMagnetic Compatibility
(EMC) (3GPP TS 36.113 version 15.3.0 Release 15)
- ETSI TS 136141 V 15.5.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – Base Station (BS) conformance testing
(3GPP TS 36.141 version 15.5.0 Release 15)
- ETSI TS 136201 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – LTE physical layer – General description
(3GPP TS 36.201 version 15.2.0 Release 15)
- ETSI TS 136212 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Multiplexing and channel coding (3GPP TS 36.212 version
15.4.0 Release 15)
- ETSI TS 136300 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 136302 V 15.1.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – Services provided by the physical layer
(3GPP TS 36.302 version 15.1.0 Release 15)
- ETSI TS 136304 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – User Equipment (UE) procedures in idle mode
(3GPP TS 36.304 version 15.2.0 Release 15)
- ETSI TS 136305 V 15.2.0:2019
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 15.2.0 Release 15)
- ETSI TS 136306 V 15.3.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – User Equipment (UE) radio access capabilities
(3GPP TS 36.306 version 15.3.0 Release 15)
- ETSI TS 136307 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – Requirements on User Equipments (UEs)
supporting a release-independent frequency band
(3GPP TS 36.307 version 15.4.0 Release 15)
- ETSI TS 136314 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Layer 2 – Measurements (3GPP TS 36.314 version 15.2.0
Release 15)
- ETSI TS 136321 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Medium Access Control (MAC) protocol specification
(3GPP TS 36.321 version 15.4.0 Release 15)
- ETSI TS 136323 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Packet Data Convergence Protocol (PDCP) specification
(3GPP TS 36.323 version 15.2.0 Release 15)
- ETSI TS 136331 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– Radio Resource Control (RRC) – Protocol specification
(3GPP TS 36.331 version 15.4.0 Release 15)
- ETSI TS 136355 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA)
– LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 15.2.0
Release 15)
- ETSI TS 136401 V 15.1.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – Architecture description
(3GPP TS 36.401 version 15.1.0 Release 15)
- ETSI TS 136413 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – S1 Application Protocol (S1AP)
(3GPP TS 36.413 version 15.4.0 Release 15)
- ETSI TS 136422 V 15.1.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 signalling transport
(3GPP TS 36.422 version 15.1.0 Release 15)
- ETSI TS 136423 V 15.4.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 Application Protocol (X2AP)
(3GPP TS 36.423 version 15.4.0 Release 15)
- ETSI TS 136455 V 15.2.1:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – LTE Positioning Protocol A (LPPa)
(3GPP TS 36.455 version 15.2.1 Release 15)
- ETSI TS 136509 V 15.2.0:2019
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) and Evolved Packet Core (EPC) – Special
conformance testing functions for User Equipment (UE)
(3GPP TS 36.509 version 15.2.0 Release 15)
- ETSI TS 136521-2 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 136523-2 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 137104 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – 5G – NR, E-UTRA, UTRA and GSM/EDGE
– Multi-Standard Radio (MSR) Base Station (BS) radio
transmission and reception (3GPP TS 37.104 version 15.5.0
Release 15)
- ETSI TS 137113 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – NR, E-UTRA, UTRA and GSM/EDGE – Multi-Standard
Radio (MSR) Base Station (BS) Electromagnetic Compatibility
(EMC) (3GPP TS 37.113 version 15.5.0 Release 15)

- ETSI TS 137141 V 15.5.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – NR, E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 15.5.0 Release 15)
- ETSI TS 137571-1 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 137571-2 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 137571-3 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 137571-4 V 15.0.0:2019
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 15.0.0 Release 15)
- ETSI TS 137571-5 V 15.4.0:2019
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 15.4.0 Release 15)
- ETSI TS 144018 V 15.4.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Mobile radio interface layer 3 specification – GSM/EDGE Radio Resource Control (RRC) protocol (3GPP TS 44.018 version 15.4.0 Release 15)
- ETSI TS 145008 V 15.2.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – GSM/EDGE Radio subsystem link control (3GPP TS 45.008 version 15.2.0 Release 15)
- ETSI TS 151010-4 V 15.1.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Mobile Station (MS) conformance specification – Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (3GPP TS 51.010-4 version 15.1.0 Release 15)
- ETSI TS 124281 V 15.4.0:2019
LTE – Mission Critical Video (MCVideo) signalling control – Protocol specification (3GPP TS 24.281 version 15.4.0 Release 15)
- ETSI TS 124282 V 15.5.0:2019
LTE – Mission Critical Data (MCData) signalling control – Protocol specification (3GPP TS 24.282 version 15.5.0 Release 15)
- ETSI TS 124379 V 13.12.0:2019
LTE – Mission Critical Push To Talk (MCPTT) call control – Protocol specification (3GPP TS 24.379 version 13.12.0 Release 13)
- ETSI TS 124484 V 15.5.0:2019
LTE – Mission Critical Services (MCS) configuration management – Protocol specification (3GPP TS 24.484 version 15.5.0 Release 15)
- ETSI TS 124501 V 15.2.1:2019
5G – Non-Access-Stratum (NAS) protocol for 5G System (5GS) – Stage 3 (3GPP TS 24.501 version 15.2.1 Release 15)
- ETSI TS 124502 V 15.3.0:2019
5G – Access to the 3GPP 5G Core Network (5GCN) via non-3GPP access networks (3GPP TS 24.502 version 15.3.0 Release 15)
- ETSI TS 124526 V 15.2.0:2019
5G – User Equipment (UE) policies for 5G System (5GS) – Stage 3 (3GPP TS 24.526 version 15.2.0 Release 15)
- ETSI TS 124581 V 15.2.0:2019
LTE – Mission Critical Video (MCVideo) media plane control – Protocol specification (3GPP TS 24.581 version 15.2.0 Release 15)
- ETSI TS 129122 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – 5G – T8 reference point for Northbound APIs (3GPP TS 29.122 version 15.2.0 Release 15)
- ETSI TS 129128 V 15.4.0:2019
LTE – Universal Mobile Telecommunications System (UMTS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) interfaces for interworking with packet data networks and applications (3GPP TS 29.128 version 15.4.0 Release 15)
- ETSI TS 129222 V 15.2.0:2019
5G – Common API Framework for 3GPP Northbound APIs (3GPP TS 29.222 version 15.2.0 Release 15)
- ETSI TS 129244 V 14.7.0:2019
LTE – Interface between the Control Plane and the User Plane nodes (3GPP TS 29.244 version 14.7.0 Release 14)
- ETSI TS 129244 V 15.4.0:2019
LTE – Interface between the Control Plane and the User Plane nodes (3GPP TS 29.244 version 15.4.0 Release 15)
- ETSI TS 129251 V 15.1.0:2019
LTE – Gw and Gwn reference point for sponsored data connectivity (3GPP TS 29.251 version 15.1.0 Release 15)
- ETSI TS 129413 V 15.1.0:2019
5G – Application of the NG Application Protocol (NGAP) to non-3GPP access (3GPP TS 29.413 version 15.1.0 Release 15)
- ETSI TS 129500 V 15.2.1:2019
5G – 5G System – Technical Realization of Service Based Architecture – Stage 3 (3GPP TS 29.500 version 15.2.1 Release 15)
- ETSI TS 129501 V 15.2.0:2019
5G – 5G System – Principles and Guidelines for Services Definition – Stage 3 (3GPP TS 29.501 version 15.2.0 Release 15)
- ETSI TS 129502 V 15.2.1:2019
5G – 5G System – Session Management Services – Stage 3 (3GPP TS 29.502 version 15.2.1 Release 15)
- ETSI TS 129503 V 15.3.0:2019
5G – 5G System – Unified Data Management Services – Stage 3 (3GPP TS 29.503 version 15.3.0 Release 15)
- ETSI TS 129504 V 15.2.0:2019
5G – 5G System – Unified Data Repository Services – Stage 3 (3GPP TS 29.504 version 15.2.0 Release 15)

33.070.99 Ostale pokretne službe

Europska normizacija ETSI

- ETSI TS 123280 V 15.6.0:2019
LTE – Common functional architecture to support mission critical services – Stage 2 (3GPP TS 23.280 version 15.6.0 Release 15)
- ETSI TS 123281 V 15.6.0:2019
LTE – Functional architecture and information flows to support Mission Critical Video (MCVideo) – Stage 2 (3GPP TS 23.281 version 15.6.0 Release 15)
- ETSI TS 123527 V 15.2.0:2019
5G – 5G System – Restoration procedures (3GPP TS 23.527 version 15.2.0 Release 15)
- ETSI TS 124281 V 14.6.0:2019
LTE – Mission Critical Video (MCVideo) signalling control – Protocol specification (3GPP TS 24.281 version 14.6.0 Release 14)

- ETSI TS 129505 V 15.3.0:2019
5G – 5G System – Usage of the Unified Data Repository services for Subscription Data – Stage 3 (3GPP TS 29.505 version 15.3.0 Release 15)
- ETSI TS 129507 V 15.2.0:2019
5G – 5G System – Access and Mobility Policy Control Service – Stage 3 (3GPP TS 29.507 version 15.2.0 Release 15)
- ETSI TS 129508 V 15.2.0:2019
5G – 5G System – Session Management Event Exposure Service – Stage 3 (3GPP TS 29.508 version 15.2.0 Release 15)
- ETSI TS 129509 V 15.3.0:2019
5G – 5G System – Authentication Server Services – Stage 3 (3GPP TS 29.509 version 15.3.0 Release 15)
- ETSI TS 129510 V 15.3.0:2019
5G – 5G System – Network function repository services – Stage 3 (3GPP TS 29.510 version 15.3.0 Release 15)
- ETSI TS 129511 V 15.3.0:2019
5G – 5G System – Equipment Identity Register Services – Stage 3 (3GPP TS 29.511 version 15.3.0 Release 15)
- ETSI TS 129512 V 15.2.0:2019
5G – 5G System – Session Management Policy Control Service – Stage 3 (3GPP TS 29.512 version 15.2.0 Release 15)
- ETSI TS 129513 V 15.2.0:2019
5G – 5G System – Policy and Charging Control signalling flows and QoS parameter mapping – Stage 3 (3GPP TS 29.513 version 15.2.0 Release 15)
- ETSI TS 129514 V 15.2.0:2019
5G – 5G System – Policy Authorization Service – Stage 3 (3GPP TS 29.514 version 15.2.0 Release 15)
- ETSI TS 129518 V 15.3.0:2019
5G – 5G System – Access and Mobility Management Services – Stage 3 (3GPP TS 29.518 version 15.3.0 Release 15)
- ETSI TS 129519 V 15.2.0:2019
5G – 5G System – Usage of the Unified Data Repository Service for Policy Data, Application Data and Structured Data for Exposure – Stage 3 (3GPP TS 29.519 version 15.2.0 Release 15)
- ETSI TS 129520 V 15.2.0:2019
5G – 5G System – Network Data Analytics Services – Stage 3 (3GPP TS 29.520 version 15.2.0 Release 15)
- ETSI TS 129521 V 15.2.0:2019
5G – 5G System – Binding Support Management Service – Stage 3 (3GPP TS 29.521 version 15.2.0 Release 15)
- ETSI TS 129522 V 15.2.0:2019
5G – 5G System – Network Exposure Function Northbound APIs – Stage 3 (3GPP TS 29.522 version 15.2.0 Release 15)
- ETSI TS 129523 V 15.0.0:2019
5G – 5G System – Policy Control Event Exposure Service – Stage 3 (3GPP TS 29.523 version 15.0.0 Release 15)
- ETSI TS 129524 V 15.0.0:2019
5G – 5G System – Cause code mapping between 5G interfaces – Stage 3 (3GPP TS 29.524 version 15.0.0 Release 15)
- ETSI TS 129525 V 15.0.0:2019
5G – 5G System – UE Policy Control Service – Stage 3 (3GPP TS 29.525 version 15.0.0 Release 15)
- ETSI TS 129531 V 15.3.0:2019
5G – 5G System – Network Slice Selection Services – Stage 3 (3GPP TS 29.531 version 15.3.0 Release 15)
- ETSI TS 129540 V 15.3.0:2019
5G – 5G System – SMS Services – Stage 3 (3GPP TS 29.540 version 15.3.0 Release 15)
- ETSI TS 129551 V 15.2.0:2019
5G – 5G System – Packet Flow Description Management Service – Stage 3 (3GPP TS 29.551 version 15.2.0 Release 15)
- ETSI TS 129554 V 15.2.0:2019
5G – 5G System – Background Data Transfer Policy Control Service – Stage 3 (3GPP TS 29.554 version 15.2.0 Release 15)
- ETSI TS 129571 V 15.3.0:2019
5G – 5G System – Common Data Types for Service Based Interfaces – Stage 3 (3GPP TS 29.571 version 15.3.0 Release 15)
- ETSI TS 129572 V 15.3.0:2019
5G – 5G System – Location Management Services – Stage 3 (3GPP TS 29.572 version 15.3.0 Release 15)
- ETSI TS 129573 V 15.1.0:2019
5G – 5G System – Public Land Mobile Network (PLMN) Interconnection – Stage 3 (3GPP TS 29.573 version 15.1.0 Release 15)
- ETSI TS 129594 V 15.2.0:2019
5G – 5G System – Spending Limit Control Service – Stage 3 (3GPP TS 29.594 version 15.2.0 Release 15)
- ETSI TR 136905 V 15.3.0:2019
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test points for radio transmission and reception conformance test cases (3GPP TR 36.905 version 15.3.0 Release 15)
- ETSI TS 137105 V 15.4.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) transmission and reception (3GPP TS 37.105 version 15.4.0 Release 15)
- ETSI TS 137114 V 15.3.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) Electromagnetic Compatibility (EMC) (3GPP TS 37.114 version 15.3.0 Release 15)
- ETSI TS 137145-1 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 1: conducted conformance testing (3GPP TS 37.145-1 version 15.2.0 Release 15)
- ETSI TS 137145-2 V 15.2.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 2: radiated conformance testing (3GPP TS 37.145-2 version 15.2.0 Release 15)
- ETSI TS 137171 V 15.1.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) – User Equipment (UE) performance requirements for RAT-Independent positioning enhancements (3GPP TS 37.171 version 15.1.0 Release 15)
- ETSI TS 137340 V 15.4.0:2019
Universal Mobile Telecommunications System (UMTS) – LTE – 5G – NR – Multi-connectivity – Overall description – Stage-2 (3GPP TS 37.340 version 15.4.0 Release 15)
- ETSI TS 138101-1 V 15.4.0:2019
5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 15.4.0 Release 15)
- ETSI TS 138101-2 V 15.4.0:2019
5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 15.4.0 Release 15)
- ETSI TS 138101-3 V 15.4.0:2019
5G – NR – User Equipment (UE) radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.101-3 version 15.4.0 Release 15)
- ETSI TS 138101-4 V 15.0.0:2019
5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 15.0.0 Release 15)
- ETSI TS 138104 V 15.4.0:2019
5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 15.4.0 Release 15)
- ETSI TS 138113 V 15.4.0:2019
5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.4.0 Release 15)

- ETSI TS 138133 V 15.4.0:2019
5G – NR – Requirements for support of radio resource management (3GPP TS 38.133 version 15.4.0 Release 15)
- ETSI TS 138141-1 V 15.1.0:2019
5G – NR – Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 15.1.0 Release 15)
- ETSI TS 138141-2 V 15.1.0:2019
5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 15.1.0 Release 15)
- ETSI TS 138171 V 15.0.0:2019
5G – NR – Requirements for support of Assisted Global Navigation Satellite System (A-GNSS) (3GPP TS 38.171 version 15.0.0 Release 15)
- ETSI TS 138202 V 15.4.0:2019
5G – NR – Services provided by the physical layer (3GPP TS 38.202 version 15.4.0 Release 15)
- ETSI TS 138211 V 15.4.0:2019
5G – NR – Physical channels and modulation (3GPP TS 38.211 version 15.4.0 Release 15)
- ETSI TS 138212 V 15.4.0:2019
5G – NR – Multiplexing and channel coding (3GPP TS 38.212 version 15.4.0 Release 15)
- ETSI TS 138213 V 15.4.0:2019
5G – NR – Physical layer procedures for control (3GPP TS 38.213 version 15.4.0 Release 15)
- ETSI TS 138214 V 15.4.0:2019
5G – NR – Physical layer procedures for data (3GPP TS 38.214 version 15.4.0 Release 15)
- ETSI TS 138215 V 15.4.0:2019
5G – NR – Physical layer measurements (3GPP TS 38.215 version 15.4.0 Release 15)
- ETSI TS 138300 V 15.4.0:2019
5G – NR – Overall description – Stage-2 (3GPP TS 38.300 version 15.4.0 Release 15)
- ETSI TS 138304 V 15.2.0:2019
5G – NR – User Equipment (UE) procedures in idle mode and in RRC Inactive state (3GPP TS 38.304 version 15.2.0 Release 15)
- ETSI TS 138305 V 15.2.0:2019
5G – NG Radio Access Network (NG-RAN) – Stage 2 functional specification of User Equipment (UE) positioning in NG-RAN (3GPP TS 38.305 version 15.2.0 Release 15)
- ETSI TS 138306 V 15.4.0:2019
5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 15.4.0 Release 15)
- ETSI TS 138307 V 15.2.0:2019
5G – NR – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 38.307 version 15.2.0 Release 15)
- ETSI TS 138321 V 15.4.0:2019
5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 15.4.0 Release 15)
- ETSI TS 138322 V 15.4.0:2019
5G – NR – Radio Link Control (RLC) protocol specification (3GPP TS 38.322 version 15.4.0 Release 15)
- ETSI TS 138323 V 15.4.0:2019
5G – NR – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 38.323 version 15.4.0 Release 15)
- ETSI TS 138331 V 15.4.0:2019
5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 15.4.0 Release 15)
- ETSI TS 138401 V 15.4.0:2019
5G – NG-RAN – Architecture description (3GPP TS 38.401 version 15.4.0 Release 15)
- ETSI TS 138410 V 15.2.0:2019
5G – NG-RAN – NG general aspects and principles (3GPP TS 38.410 version 15.2.0 Release 15)
- ETSI TS 138413 V 15.2.0:2019
5G – NG-RAN – NG Application Protocol (NGAP) (3GPP TS 38.413 version 15.2.0 Release 15)
- ETSI TS 138415 V 15.2.0:2019
5G – NG-RAN – PDU Session User Plane protocol (3GPP TS 38.415 version 15.2.0 Release 15)
- ETSI TS 138420 V 15.2.0:2019
5G – NG-RAN – Xn general aspects and principles (3GPP TS 38.420 version 15.2.0 Release 15)
- ETSI TS 138422 V 15.2.0:2019
5G – NG-RAN – Xn signalling transport (3GPP TS 38.422 version 15.2.0 Release 15)
- ETSI TS 138423 V 15.2.0:2019
5G – NG-RAN – Xn Application Protocol (XnAP) (3GPP TS 38.423 version 15.2.0 Release 15)
- ETSI TS 138425 V 15.4.0:2019
5G – NG-RAN – NR user plane protocol (3GPP TS 38.425 version 15.4.0 Release 15)
- ETSI TS 138455 V 15.2.1:2019
5G – NG-RAN – NR Positioning Protocol A (NRPPa) (3GPP TS 38.455 version 15.2.1 Release 15)
- ETSI TS 138460 V 15.2.0:2019
5G – NG-RAN – E1 general aspects and principles (3GPP TS 38.460 version 15.2.0 Release 15)
- ETSI TS 138462 V 15.2.0:2019
5G – NG-RAN – E1 signalling transport (3GPP TS 38.462 version 15.2.0 Release 15)
- ETSI TS 138463 V 15.2.0:2019
5G – NG-RAN – E1 Application Protocol (E1AP) (3GPP TS 38.463 version 15.2.0 Release 15)
- ETSI TS 138470 V 15.4.0:2019
5G – NG-RAN – F1 general aspects and principles (3GPP TS 38.470 version 15.4.0 Release 15)
- ETSI TS 138473 V 15.4.1:2019
5G – NG-RAN – F1 Application Protocol (F1AP) (3GPP TS 38.473 version 15.4.1 Release 15)
- ETSI TS 138508-1 V 15.2.0:2019
5G – 5GS – User Equipment (UE) conformance specification – Part 1: Common test environment (3GPP TS 38.508-1 version 15.2.0 Release 15)
- ETSI TS 138508-2 V 15.2.0:2019
5G – 5GS – User Equipment (UE) conformance specification – Part 2: Common Implementation Conformance Statement (ICS) proforma (3GPP TS 38.508-2 version 15.2.0 Release 15)
- ETSI TS 138509 V 15.2.0:2019
5G – 5GS – Special conformance testing functions for User Equipment (UE) (3GPP TS 38.509 version 15.2.0 Release 15)
- ETSI TS 138521-1 V 15.1.0:2019
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.521-1 version 15.1.0 Release 15)
- ETSI TS 138521-2 V 15.1.0:2019
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.521-2 version 15.1.0 Release 15)
- ETSI TS 138521-3 V 15.1.0:2019
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.521-3 version 15.1.0 Release 15)
- ETSI TS 138522 V 15.1.1:2019
5G – NR – User Equipment (UE) conformance specification – Applicability of radio transmission, radio reception and radio resource management test cases (3GPP TS 38.522 version 15.1.1 Release 15)
- ETSI TS 138523-1 V 15.2.0:2019
5G – 5GS – UE conformance specification – Part 1: Protocol (3GPP TS 38.523-1 version 15.2.0 Release 15)

- ETSI TS 138523-2 V 15.2.0:2019
5G – 5GS – UE conformance specification – Part 2: Applicability of protocol test cases (3GPP TS 38.523-2 version 15.2.0 Release 15)
- ETSI TS 138523-3 V 15.2.0:2019
5G – 5GS – User Equipment (UE) conformance specification – Part 3: Protocol Test Suites (3GPP TS 38.523-3 version 15.2.0 Release 15)
- ETSI TR 138903 V 15.1.0:2019
5G – NR – Derivation of test tolerances and measurement uncertainty for User Equipment (UE) conformance test cases (3GPP TR 38.903 version 15.1.0 Release 15)
- ETSI TR 138905 V 15.1.0:2019
5G – NR – Derivation of test points for radio transmission and reception User Equipment (UE) conformance test cases (3GPP TR 38.905 version 15.1.0 Release 15)
- ETSI GS MEC 016 V 2.1.1:2019
Multi-access Edge Computing (MEC) – UE application interface

33.100.01 Elektromagnetska kompatibilnost općenito

Europska normizacija CENELEC

- EN 50121-3-1:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle
- EN 50121-3-2:2016/A1:2019
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus
- EN 50121-4:2016/A1:2019
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus
- EN 50121-5:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus

ETSI

- EN 301489-31 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

33.100.10 Zračenje

Europska normizacija ETSI

- EN 301489-2 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 2: Specific conditions for radio paging equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-3 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-4 V 3.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 4: Specific conditions for fixed radio links and ancillary equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

- EN 301489-5 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA) – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-6 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-9 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-12 V 3.1.1:2019
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS) Harmonised Standard for electromagnetic compatibility
- EN 301489-19 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-20 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS) – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-27 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-29 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-31 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-33 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 33: Specific conditions for Ultra-WideBand (UWB) devices – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- EN 301489-34 V 2.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 34: Specific conditions for External Power Supply (EPS) for mobile phones – Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU

EN 301489-35 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2483,5 MHz to 2500 MHz bands – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301489-53 V 1.1.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment – Harmonised standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

ETSI TR 103265 V 1.3.1:2019
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Definition of radio parameters

ETSI TR 103399 V 1.1.1:2019
System Reference document (SRdoc) – Fixed and in-motion Earth stations communicating with satellites in non-geostationary orbits in the 11 GHz to 14 GHz frequency band

33.100.20 Otpornost

Europska normizacija CENELEC

EN IEC 62433-1:2019
EMC IC modelling – Part 1: General modelling framework (IEC 62433-1:2019)

ETSI

EN 301489-15 V 2.2.1:2019
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 15: Specific conditions for commercially available amateur radio equipment – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

33.120.10 Koaksijalni kabeli. Valovodi

Europska normizacija CENELEC

EN 50117-1:2019
Coaxial cables – Part 1: Generic specification

EN 50117-9-1:2019
Coaxial cables – Part 9-1: Sectional specification for coaxial cables for analogue and digital signal transmission – Indoor drop cables for systems operating at 5 MHz – 1000 MHz

EN 50117-9-2:2019
Coaxial cables – Part 9-2: Sectional specification for coaxial cables for analogue and digital signal transmission – Indoor drop cables for systems operating at 5 MHz – 3000 MHz

EN 50117-9-3:2019
Coaxial cables – Part 9-3: Sectional specification for coaxial cables for analogue and digital signal transmission – Indoor drop cables for systems operating at 5 MHz – 6000 MHz

EN 50117-10-1:2019
Coaxial cables – Part 10-1: Sectional specification for coaxial cables for analogue and digital signal transmission – Outdoor drop cables for systems operating at 5 MHz – 1000 MHz

EN 50117-10-2:2019
Coaxial cables – Part 10-2: Sectional specification for coaxial cables for analogue and digital signal transmission – Outdoor drop cables for systems operating at 5 MHz – 3000 MHz

EN 50117-11-1:2019
Coaxial cables – Part 11-1: Sectional specification for coaxial cables for analogue and digital signal transmission – Distribution and trunk cables for systems operating at 5 MHz – 1000 MHz

EN 50117-11-2:2019
Coaxial cables – Part 11-2: Sectional specification for coaxial cables for analogue and digital signal transmission – Distribution and trunk cables for systems operating at 5 MHz – 2000 MHz

EN IEC 60966-1:2019
Radio frequency and coaxial cable assemblies – Part 1: Generic specification – General requirements and test methods (IEC 60966-1:2019)

33.180.01 Svjetlovodni sustavi općenito

Europska normizacija CENELEC

EN IEC 62496-4-1:2019
Optical circuit boards – Part 4-1: Interface standards – Terminated waveguide OCB assembly using single-row twelve-channel PMT connectors (IEC 62496-4-1:2019)

33.180.10 Svjetlovodna vlakna i kabeli

Europska normizacija CENELEC

EN 50551-1:2019
Simplex and duplex cables for use in terminated cable assemblies – Part 1: Blank Detail Specification and minimum requirements

EN IEC 60793-1-31:2019
Optical fibres – Part 1-31: Measurement methods and test procedures – Tensile strength (IEC 60793-1-31:2019)

Međunarodna normizacija IEC

IEC 60794-2-11:2019
Optical fibre cables – Part 2-11: Indoor cables – Detailed specification for simplex and duplex cables for use in premises cabling

IEC 60794-2-21:2019
Optical fibre cables – Part 2-21: Indoor cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

IEC 60794-2-31:2019
Optical fibre cables – Part 2-31: Indoor cables – Detailed specification for optical fibre ribbon cables for use in premises cabling

33.180.20 Svjetlovodne vezne naprave

Europska normizacija CENELEC

EN 50377-18-1:2019
Connector sets and interconnect components to be used in optical fibre communication systems – Product specifications – Part 18-1: type 4+4x10.3125 Gb/s MPO (QFSP) transceiver mated with an MPO connector equipped with 12 fibre PPS ferrules terminated on EN 60793-2-10 category A1a.3a or A1a.3b 50/125 micron multimode fibre

Međunarodna normizacija IEC

IEC 61754-7-3:2019
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 7-3: Type MPO connector family – Two fibre rows 16 fibre wide

33.180.30 Optička pojačala

Europska normizacija CENELEC

EN IEC 62343-1:2019
Dynamic modules – Part 1: Performance standards – General conditions (IEC 62343-1:2019)

33.200 Daljinsko upravljanje. Daljinsko mjerjenje

Europska normizacija CEN

EN 13757-4:2019
Communication systems for meters – Part 4: Wireless M-Bus communication

ETSI

ETSI TS 118103 V 2.12.1:2019
oneM2M – Security solutions (oneM2M TS-0003 version 2.12.1 Release 2A)

Međunarodna normizacija IEC

IEC/TR 62357-2:2019
Power systems management and associated information exchange – Part 2: Use cases and role models

35.030 Informatička sigurnost

Europska normizacija CENELEC

EN IEC 62443-2-4:2019
Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4:2015)

EN IEC 62443-2-4:2019/A1:2019
Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4:2015/A1:2017)

EN IEC 62443-3-3:2019
Industrial communication networks – Network and system security – Part 3-3: System security requirements and security levels (IEC 62443-3-3:2013)

EN IEC 62443-4-2:2019
Security for industrial automation and control systems – Part 4-2: Technical security requirements for IACS components (IEC 62443-4-2:2019)

Međunarodna normizacija ISO/IEC

ISO/IEC 18033-6:2019
IT Security techniques – Encryption algorithms – Part 6: Homomorphic encryption

35.040.40 Kodiranje audioinformacija, videoinformacija, multimedijjskih i hipermedijjskih informacija

Međunarodna normizacija ISO/IEC

ISO/IEC 14496-4:2004/Amd 46:2019
Information technology – Coding of audio-visual objects – Part 4: Conformance testing – Amendment 46: Conformance testing for internet video coding

ISO/IEC 14496-5:2001/Amd 41:2019
Information technology – Coding of audio-visual objects – Part 5: Reference software – Amendment 41: Reference software for internet video coding

ISO/IEC 21122-1:2019
Information technology – JPEG XS low-latency lightweight image coding system – Part 1: Core coding system

ISO/IEC 23005-6:2019
Information technology – Media context and control – Part 6: Common types and tools

35.040.50 Tehnike automatskog prepoznavanja i preuzimanja podataka

Međunarodna normizacija ISO

ISO/IEC TR 11179-2:2019
Information technology – Metadata registries (MDR) – Part 2: Classification

35.040.99 Ostale norme koje se odnose na kodiranje informacija

Europska normizacija ETSI

ETSI GR ARF 001 V 1.1.1:2019
Augmented Reality Framework (ARF) – AR standards landscape

35.100.10 Fizikalni sloj

Europska normizacija CEN

EN 13757-4:2019
Communication systems for meters – Part 4: Wireless M-Bus communication

35.100.20 Sloj veze između podataka

Europska normizacija CEN

EN 13757-4:2019
Communication systems for meters – Part 4: Wireless M-Bus communication

Međunarodna normizacija IEC

IEC 61158-3-2:2014/AMD1:2019
Amendment 1 – Industrial communication networks – Fieldbus specifications – Part 3 – 2: Data-link layer service definition – Type 2 elements

IEC 61158-3-2:2014+AMD1:2019
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements

IEC 61158-3-4:2019
Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements

IEC 61158-3-12:2019
Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements

IEC 61158-3-19:2019
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements

IEC 61158-3-21:2019
Industrial communication networks – Fieldbus specifications – Part 3-21: Data-link layer service definition – Type 21 elements

IEC 61158-3-25:2019
Industrial communication networks – Fieldbus specifications – Part 3-25: Data-link layer service definition – Type 25 elements

IEC 61158-4-2:2019
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements

- IEC 61158-4-3:2019
Industrial communication networks – Fieldbus specifications – Part 4-3: Data-link layer protocol specification – Type 3 elements
- IEC 61158-4-4:2019
Industrial communication networks – Fieldbus specifications – Part 4-4: Data-link layer protocol specification – Type 4 elements
- IEC 61158-4-12:2019
Industrial communication networks – Fieldbus specifications – Part 4-12: Data-link layer protocol specification – Type 12 elements
- IEC 61158-4-19:2019
Industrial communication networks – Fieldbus specifications – Part 4-19: Data-link layer protocol specification – Type 19 elements
- IEC 61158-4-21:2019
Industrial communication networks – Fieldbus specifications – Part 4-21: Data-link layer protocol specification – Type 21 elements
- IEC 61158-4-24:2019
Industrial communication networks – Fieldbus specifications – Part 4-24: Data-link layer protocol specification – Type 24 elements
- IEC 61158-4-25:2019
Industrial communication networks – Fieldbus specifications – Part 4-25: Data-link layer protocol specification – Type 25 elements
- IEC 61784-2:2019
Industrial communication networks – Profiles – Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC/IEEE 8802-3

35.100.70 Sloj primjene

Međunarodna normizacija IEC

- IEC 61158-5-2:2019
Industrial communication networks – Fieldbus specifications – Part 5-2: Application layer service definition – Type 2 elements
- IEC 61158-5-4:2019
Industrial communication networks – Fieldbus specifications – Part 5-4: Application layer service definition – Type 4 elements
- IEC 61158-5-10:2019
Industrial communication networks – Fieldbus specifications – Part 5-10: Application layer service definition – Type 10 elements
- IEC 61158-5-12:2019
Industrial communication networks – Fieldbus specifications – Part 5-12: Application layer service definition – Type 12 elements
- IEC 61158-5-19:2019
Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements
- IEC 61158-5-21:2019
Industrial communication networks – Fieldbus specifications – Part 5-21: Application layer service definition – Type 21 elements
- IEC 61158-5-23:2019
Industrial communication networks – Fieldbus specifications – Part 5-23: Application layer service definition – Type 23 elements
- IEC 61158-5-25:2019
Industrial communication networks – Fieldbus specifications – Part 5-25: Application layer service definition – Type 25 elements
- IEC 61158-5-26:2019
Industrial communication networks – Fieldbus specifications – Part 5-26: Application layer service definition – Type 26 elements

35.110 Umrežavanje

Europska normizacija ETSI

- ETSI TS 103327 V 1.1.1:2019
Smart Body Area Networks (SmartBAN) – Service and application standardized enablers and interfaces, APIs and infrastructure for interoperability management
- ETSI TS 103586 V 1.1.1:2019
Environmental Engineering (EE) – Liquid cooling solutions for Information and Communication Technology (ICT) infrastructure equipment
- ETSI GR NFV-IFA 024 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Information Modeling – Report on External Touchpoints related to NFV Information Model
- ETSI GS NFV-IFA 005 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification
- ETSI GS NFV-IFA 006 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification
- ETSI GS NFV-IFA 007 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification
- ETSI GS NFV-IFA 008 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification
- ETSI GS NFV-IFA 010 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Functional requirements specification
- ETSI GS NFV-IFA 011 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – VNF Descriptor and Packaging Specification
- ETSI GS NFV-IFA 013 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Os-Ma-Nfv reference point – Interface and Information Model Specification
- ETSI GS NFV-IFA 014 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Network Service Templates Specification
- ETSI GS NFV-IFA 014 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Network Service Templates Specification
- ETSI GS NFV-IFA 030 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Multiple Administrative Domain Aspect Interfaces Specification
- ETSI GS NFV-IFA 031 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Requirements and interfaces specification for management of NFV-MANO
- ETSI GS NFV-IFA 032 V 3.2.1:2019
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Interface and Information Model Specification for Multi-Site Connectivity Services
- ETSI GS NFV-SOL 002 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Ve-Vnfm Reference Point
- ETSI GS NFV-SOL 003 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Or-Vnfm Reference Point

ETSI GS NFV-SOL 004 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – VNF Package specification

ETSI GS NFV-SOL 005 V 2.6.1:2019
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Os-Ma-nfvo Reference Point

Međunarodna normizacija IEC

IEC 61158-1:2019
Industrial communication networks – Fieldbus specifications – Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series

IEC 61158-3-25:2019
Industrial communication networks – Fieldbus specifications – Part 3-25: Data-link layer service definition – Type 25 elements

IEC 61158-4-21:2019
Industrial communication networks – Fieldbus specifications – Part 4-21: Data-link layer protocol specification – Type 21 elements

IEC 61158-4-25:2019
Industrial communication networks – Fieldbus specifications – Part 4-25: Data-link layer protocol specification – Type 25 elements

IEC 61158-5-2:2019
Industrial communication networks – Fieldbus specifications – Part 5-2: Application layer service definition – Type 2 elements

IEC 61158-5-4:2019
Industrial communication networks – Fieldbus specifications – Part 5-4: Application layer service definition – Type 4 elements

IEC 61158-5-10:2019
Industrial communication networks – Fieldbus specifications – Part 5-10: Application layer service definition – Type 10 elements

IEC 61158-5-12:2019
Industrial communication networks – Fieldbus specifications – Part 5-12: Application layer service definition – Type 12 elements

IEC 61158-5-19:2019
Industrial communication networks – Fieldbus specifications – Part 5-19: Application layer service definition – Type 19 elements

IEC 61158-5-21:2019
Industrial communication networks – Fieldbus specifications – Part 5-21: Application layer service definition – Type 21 elements

35.140 Računalna grafika

Europska normizacija ETSI

ETSI GR ARF 001 V 1.1.1:2019
Augmented Reality Framework (ARF) – AR standards landscape

35.160 Mikroprocesorski sustavi

Europska normizacija CENELEC

CLC/TR IEC 62453-41:201
Field device tool (FDT) interface specification – Part 41: Object model integration profile – Common object model (IEC TR 62453-41:2016)

CLC/TR IEC 62453-42:2019
Field device tool (FDT) interface specification – Part 42: Object model integration profile – Common Language Infrastructure (IEC TR 62453-42:2016)

CLC/TR IEC 62453-62:2019
Field device tool (FDT) interface specification – Part 62: Field device tool (FDT) styleguide for common language infrastructure (IEC TR 62453-62:2017)

ETSI

ETSI TS 103586 V 1.1.1:2019
Environmental Engineering (EE) – Liquid cooling solutions for Information and Communication Technology (ICT) infrastructure equipment

Međunarodna normizacija IEC

IEC 61158-3-2:2014/Amd1:2019
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements; Amendment 1

IEC 61158-3-2:2014+Amd1:2019
Industrial communication networks – Fieldbus specifications – Part 3-2: Data-link layer service definition – Type 2 elements

IEC 61158-3-4:2019
Industrial communication networks – Fieldbus specifications – Part 3-4: Data-link layer service definition – Type 4 elements

IEC 61158-3-12:2019
Industrial communication networks – Fieldbus specifications – Part 3-12: Data-link layer service definition – Type 12 elements

IEC 61158-3-19:2019
Industrial communication networks – Fieldbus specifications – Part 3-19: Data-link layer service definition – Type 19 elements

IEC 61158-3-21:2019
Industrial communication networks – Fieldbus specifications – Part 3-21: Data-link layer service definition – Type 21 elements

IEC 61158-4-2:2019
Industrial communication networks – Fieldbus specifications – Part 4-2: Data-link layer protocol specification – Type 2 elements

IEC 61158-4-3:2019
Industrial communication networks – Fieldbus specifications – Part 4-3: Data-link layer protocol specification – Type 3 elements

IEC 61158-4-4:2019
Industrial communication networks – Fieldbus specifications – Part 4-4: Data-link layer protocol specification – Type 4 elements

IEC 61158-4-12:2019
Industrial communication networks – Fieldbus specifications – Part 4-12: Data-link layer protocol specification – Type 12 elements

IEC 61158-4-19:2019
Industrial communication networks – Fieldbus specifications – Part 4-19: Data-link layer protocol specification – Type 19 elements

IEC 61158-4-24:2019
Industrial communication networks – Fieldbus specifications – Part 4-24: Data-link layer protocol specification – Type 24 elements

IEC 61158-5-23:2019
Industrial communication networks – Fieldbus specifications – Part 5-23: Application layer service definition – Type 23 elements

IEC 61158-5-25:2019
Industrial communication networks – Fieldbus specifications – Part 5-25: Application layer service definition – Type 25 elements

IEC 61158-5-26:2019
Industrial communication networks – Fieldbus specifications – Part 5-26: Application layer service definition – Type 26 elements

IEC 61784-1:2019
Industrial communication networks – Profiles – Part 1:
Fieldbus profiles

IEC 61784-2:2019
Industrial communication networks – Profiles – Part 2:
Additional fieldbus profiles for real-time networks based on
ISO/IEC/IEEE 8802-3

35.180 Terminalna i druga vanjska oprema informacijske tehnologije

Europska normizacija CEN

EN ISO 9241-220:2019
Ergonomics of human-system interaction – Part 220:
Processes for enabling, executing and assessing
human-centred design within organizations (ISO 9241-220:2019)

35.240.15 Identifikacijske kartice i pripadajuće naprave

Europska normizacija ETSI

EN 319532-3 V 1.2.1:2019
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 3: Formats

ETSI TS 102484 V 11.2.0:2019
Smart Cards – Secure channel between a UICC and an
end-point terminal (Release 11)

ETSI TS 102695-1 V 13.0.0:2019
Smart Cards – Test specification for the Host Controller
Interface (HCI) – Part 1: Terminal features (Release 13)

ETSI TS 102695-3 V 12.0.0:2019
Smart Cards – Test specification for the Host Controller
Interface (HCI) – Part 3: Host Controller features (Release 12)

ETSI TS 102695-3 V 13.0.0:2019
Smart Cards – Test specification for the Host Controller
Interface (HCI) – Part 3: Host Controller features (Release 13)

Međunarodna normizacija ISO

ISO/IEC 15693-2:2019
Cards and security devices for personal identification
– Contactless vicinity objects – Part 2: Air interface and
initialization

ISO/IEC 15693-3:2019
Cards and security devices for personal identification
– Contactless vicinity objects – Part 3: Anticollision and
transmission protocol

35.240.30 Primjene informacijske tehnologije u obavješćivanju, dokumentaciji i izdavaštvu

Europska normizacija ETSI

EN 319532-3 V 1.2.1:2019
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 3: Formats

Međunarodna normizacija ISO

ISO 16684-1:2019
Graphic technology – Extensible metadata platform (XMP)
– Part 1: Data model, serialization and core properties

IEC

IEC 61131-10:2019
Programmable controllers – Part 10: PLC open XML exchange
format

35.240.50 Primjene informacijske tehnologije u industriji

Europska normizacija CENELEC

EN IEC 62443-2-4:2019
Security for industrial automation and control systems
– Part 2-4: Security program requirements for IACS service
providers (IEC 62443-2-4:2015)

EN IEC 62443-2-4:2019/A1:2019
Security for industrial automation and control systems
– Part 2-4: Security program requirements for IACS service
providers (IEC 62443-2-4:2015/A1:2017)

EN IEC 62443-3-3:2019
Industrial communication networks – Network and system
security – Part 3-3: System security requirements and security
levels (IEC 62443-3-3:2013)

EN IEC 62443-4-2:2019
Security for industrial automation and control systems
– Part 4-2: Technical security requirements for IACS
components (IEC 62443-4-2:2019)

CLC/TR IEC 62453-41:201
Field device tool (FDT) interface specification – Part 41:
Object model integration profile – Common object model
(IEC TR 62453-41:2016)

CLC/TR IEC 62453-42:2019
Field device tool (FDT) interface specification – Part 42:
Object model integration profile – Common Language
Infrastructure (IEC TR 62453-42:2016)

CLC/TR IEC 62453-62:2019
Field device tool (FDT) interface specification – Part 62:
Field device tool (FDT) styleguide for common language
infrastructure (IEC TR 62453-62:2017)

Međunarodna normizacija IEC

IEC 61131-10:2019
Programmable controllers – Part 10: PLC open XML exchange
format

IEC 61158-1:2019
Industrial communication networks – Fieldbus specifications
– Part 1: Overview and guidance for the IEC 61158 and
IEC 61784 series

IEC 61158-5-25:2019
Industrial communication networks – Fieldbus specifications
– Part 5-25: Application layer service definition – Type 25
elements

IEC 61158-5-26:2019
Industrial communication networks – Fieldbus specifications
– Part 5-26: Application layer service definition – Type 26
elements

IEC 61784-1:2019
Industrial communication networks – Profiles – Part 1:
Fieldbus profiles

IEC 61784-2:2019
Industrial communication networks – Profiles – Part 2:
Additional fieldbus profiles for real-time networks based on
ISO/IEC/IEEE 8802-3

IEC/TR 62357-2:2019
Power systems management and associated information
exchange – Part 2: Use cases and role models

35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini

Europska normizacija CEN

EN ISO 14816:2005/A1:2019
Road transport and traffic telematics – Automatic vehicle
and equipment identification – Numbering and data structure
– Amendment 1 (ISO 14816:2005/Amd 1:2019)

ETSI

EN 302637-2 V 1.4.1:2019
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Part 2: Specification of Cooperative Awareness Basic Service

EN 302637-3 V 1.3.1:2019
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Part 3: Specifications of Decentralized Environmental Notification Basic Service

ETSI TS 103248 V 1.3.1:2019
Intelligent Transport Systems (ITS) – GeoNetworking – Port Numbers for the Basic Transport Protocol (BTP)

Međunarodna normizacija ISO

ISO 15638-22:2019
Intelligent transport systems – Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) – Part 22: Freight vehicle stability monitoring

ISO 17438-4:2019
Intelligent transport systems – Indoor navigation for personal and vehicle ITS station – Part 4: Requirements and specifications for interface between personal/vehicle and central ITS stations

35.240.67 Primjene informacijske tehnologije u građevinarstvu

Međunarodna normizacija ISO

ISO/IEC 14543-5-12:2019
Information technology – Home electronic systems (HES) architecture – Part 5-12: Intelligent grouping and resource sharing for HES Class 2 and Class 3 – Remote access test and verification

35.240.80 Primjene informacijske tehnologije u tehnologiji zaštite zdravlja

Europska normizacija CEN

EN ISO 11073-10425:2019
Health informatics – Personal health device communication – Part 10425: Device specialization – Continuous glucose monitor (CGM) (ISO/IEEE 11073-10425:2019)

Međunarodna normizacija ISO

ISO 13120:2019
Health informatics – Syntax to represent the content of healthcare classification systems – Classification Markup Language (ClAML)

35.240.90 Primjene informacijske tehnologije u izobrazbi

Međunarodna normizacija ISO

ISO/IEC 19788-7:2019
Information technology – Learning, education and training – Metadata for learning resources – Part 7: Bindings

35.240.99 Primjene IT-a u ostalim područjima

Europska normizacija CENELEC

EN IEC 61968-4:2019
Application integration at electric utilities – System interfaces for distribution management – Part 4: Interfaces for records and asset management (IEC 61968-4:2019)

37.100.99 Ostale norme koje se odnose na grafičku tehnologiju

Međunarodna normizacija ISO

ISO 16684-1:2019
Graphic technology – Extensible metadata platform (XMP) – Part 1: Data model, serialization and core properties

39.060 Nakit

Međunarodna normizacija ISO

ISO 9202:2019
Jewellery and precious metals – Fineness of precious metal alloys

43.020 Cestovna vozila općenito

Međunarodna normizacija ISO

ISO 12219-9:2019
Interior air of road vehicles – Part 9: Determination of the emissions of volatile organic compounds from vehicle interior parts – Large bag method

43.040.10 Električna i elektronička oprema

Međunarodna normizacija ISO

ISO 19642-1:2019
Road vehicles – Automotive cables – Part 1: Vocabulary and design guidelines

43.040.15 Informatika vozila. Računalni sustavi u vozilu

Međunarodna normizacija ISO

ISO 11992-1:2019
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 1: Physical and data-link layers

ISO 20078-3:2019
Road vehicles – Extended vehicle (ExVe) web services – Part 3: Security

ISO/TR 20078-4:2019
Road vehicles – Extended vehicle (ExVe) web services – Part 4: Control

43.040.20 Uređaji za osvjetljivanje, svjetlosnu signalizaciju i upozoravanje

Međunarodna normizacija IEC

IEC 60810:2017/Amd1:2019
Amendment 1 – Lamps, light sources and LED packages for road vehicles – Performance requirements

IEC 60810:2017+A1:2019
Lamps, light sources and led packages for road vehicles – Performance requirements

43.060.10 Blok motora i unutarnji sastavni dijelovi

**Međunarodna normizacija
ISO**

ISO 21342:2019
Synchronous belt drives – Automotive belts and pulleys

43.060.40 Sustavi goriva

**Međunarodna normizacija
ISO**

ISO 20766-9:2019
Road vehicles – Liquefied petroleum gas (LPG) fuel systems components – Part 9: Pressure relieve device (PRD)

43.060.50 Električna i elektronička oprema. Upravljački sustavi

**Međunarodna normizacija
ISO**

ISO 20574:2019
Road vehicles – Durability test method for starter motor for stop and start system

43.100 Osobna vozila. Kamp-prikolice i lake prikolice

**Međunarodna normizacija
ISO**

ISO 7975:2019
Passenger cars – Braking in a turn – Open-loop test method

43.120 Električna cestovna vozila

**Europska normizacija
CEN**

EN ISO 15118-1:2019
Road vehicles – Vehicle to grid communication interface – Part 1: General information and use-case definition (ISO 15118-1:2019)

**Međunarodna normizacija
ISO**

ISO 6469-1:2019
Electrically propelled road vehicles – Safety specifications – Part 1: Rechargeable energy storage system (RESS)

45.020 Željeznička tehnika općenito

**Europska normizacija
CENELEC**

EN 50121-4:2016/A1:2019
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus

EN 50121-5:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus

45.040 Materijali i sastavni dijelovi za željezničku tehniku

**Europska normizacija
CEN**

EN 16834:2019
Railway applications – Braking – Brake performance

EN 17069-1:2019
Railway applications – Systems and procedures for change of track gauge – Part 1: Automatic Variable Gauge Systems

45.060.01 Željeznička tračnička vozila općenito

**Europska normizacija
CEN**

CEN/TR 15654-3:2019
Railway applications – Measurement of vertical forces on wheels and wheelsets – Part 3: Approval and verification of on track measurement sites for vehicles in service

CENELEC

EN 50121-3-1:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle

EN 50121-3-2:2016/A1:2019
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus

45.100 Oprema za žičare

**Europska normizacija
CEN**

EN 1709:2019
Safety requirements for cableway installations designed to transport persons – Precommissioning inspection and instructions for maintenance and operational inspection and checks

45.140 Oprema za metro, tramvaj i laku željeznicu

**Europska normizacija
CENELEC**

EN 50121-3-1:2017/A1:2019
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle

47.020.40 Oprema za dizanje i rukovanje teretom

**Međunarodna normizacija
ISO**

ISO 21132:2019
Ships and marine technology – Marine cranes – Operation and maintenance requirements

47.020.50 Palubna oprema i instalacije

**Međunarodna normizacija
ISO**

ISO 21711:2019
Marine structures – Mobile offshore units – Chain wheels

47.020.60 Električna oprema brodova i pomorskih konstrukcija

Međunarodna normizacija IEC

- IEC 61892-1:2019
Mobile and fixed offshore units – Electrical installations – Part 1: General requirements and conditions
- IEC 61892-2:2019
Mobile and fixed offshore units – Electrical installations – Part 2: System design
- IEC 61892-3:2019
Mobile and fixed offshore units – Electrical installations – Part 3: Equipment
- IEC 61892-4:2019
Mobile and fixed offshore units – Electrical installations – Part 4: Cables
- IEC 61892-5:2019
Mobile and fixed offshore units – Electrical installations – Part 5: Mobile units
- IEC 61892-6:2019
Mobile and fixed offshore units – Electrical installations – Part 6: Installation
- IEC 61892-7:2019
Mobile and fixed offshore units – Electrical installations – Part 7: Hazardous areas

47.080 Mala plovila

Međunarodna normizacija ISO

- ISO 11592-2:2019
Small craft – Determination of maximum propulsion power rating using manoeuvring speed – Part 2: Craft with a length of hull between 8 m and 24 m

49.030.20 Vijci i svorni vijci

Europska normizacija CEN

- EN 2583:2019
Aerospace series – Bolts, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718) – Classification: 1275 MPa (at ambient temperature)/650°C – Technical specification

49.030.50 Podložne pločice i ostali sigurnosni elementi

Europska normizacija CEN

- EN 2414:2019
Aerospace series – Washers, chamfered, with counterbore, in alloy steel, cadmium plated

49.035 Sastavni dijelovi za zrakoplovne konstrukcije

Europska normizacija CEN

- EN 6055:2019
Aerospace series – Rod-end with bearing EN 4265 in corrosion resisting steel, external threaded shank – Dimensions and loads – Inch series
- EN 6056:2019
Aerospace series – Rod-end with bearing per EN 4614 with self lubricating liner in corrosion resisting steel with external threaded shank – Dimensions and loads – Inch series

- EN 6096:2019
Aerospace series – Bearing, spherical plain with self-lubricating liner, extra wide inner ring in corrosion resisting steel – Dimensions and loads – Inch series

- EN 6097:2019
Aerospace series – Bearing, spherical plain, metal to metal, extra wide inner ring in corrosion resisting steel – Dimensions and loads – Inch series

- EN 6098:2019
Aerospace series – Rod-end with bearing per EN 6097 in corrosion resisting steel, extra wide inner ring, external threaded shank – Dimensions and loads – Inch series

- EN 6133:2019
Aerospace series – Rod-end, with bearing per EN 6096, with self-lubricating liner in corrosion resisting steel, extra wide inner ring, external threaded shank – Dimensions and loads – Inch series

49.060 Zrakoplovna električna oprema i sustavi

Europska normizacija CEN

- EN 3660-004:2018+AC:2019
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief – Product standard

- EN 3660-005:2018+AC:2019
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief – Product standard

49.080 Hidraulični i pneumatski sustavi i sastavni dijelovi za zrakoplove

Europska normizacija CEN

- EN 3275:2019
Aerospace series – Pipe coupling 8°30' up to 28000 kPa Dynamic beam seal – Metric series – Technical specification

49.095 Oprema za putnike i kabine

Europska normizacija CEN

- EN 4726:2018+AC:2019
Aerospace series – Acceptance parameters of aesthetical variations for all visible equipment installed in aircraft cabins under all contractual variations

49.140 Svemirski sustavi i operacije

Europska normizacija CEN

- EN 16602-70-38:2019
Space product assurance – High-reliability soldering for surface-mount and mixed technology

- EN 16603-33-01:2019
Space engineering – Mechanisms

- EN 16603-33-11:2019
Space engineering – Explosive subsystems and devices

Međunarodna normizacija ISO

- ISO 11231:2019
Space systems – Probabilistic risk assessment (PRA)

53.040.10 Prijenosne trake

Europska normizacija
CEN

CEN/TR 16829:2016+AC:2019
Fire and explosion prevention and protection for bucket elevators

53.100 Strojevi za zemljane radove

Međunarodna normizacija
ISO

ISO 20474-15:2019
Earth-moving machinery – Safety – Part 15: Requirements for compact tool carriers

55.180.10 Kontejneri opće namjene

Međunarodna normizacija
ISO

ISO 1496-3:2019
Series 1 freight containers – Specification and testing – Part 3: Tank containers for liquids, gases and pressurized dry bulk

59.020 Procesi tekstilne industrije

Međunarodna normizacija
ISO

IWA 32:2019
Screening of genetically modified organisms (GMOs) in cotton and textiles

59.060.01 Tekstilna vlakna općenito

Međunarodna normizacija
ISO

ISO 1833-3:2019
Textiles – Quantitative chemical analysis – Part 3: Mixtures of acetate with certain other fibres (method using acetone)

ISO 1833-10:2019
Textiles – Quantitative chemical analysis – Part 10: Mixtures of triacetate or polylactide with certain other fibres (method using dichloromethane)

ISO 1833-16:2019
Textiles – Quantitative chemical analysis – Part 16: Mixtures of polypropylene fibres with certain other fibres (method using xylene)

ISO 1833-18:2019
Textiles – Quantitative chemical analysis – Part 18: Mixtures of silk with other protein fibres (method using sulfuric acid)

ISO 1833-21:2019
Textiles – Quantitative chemical analysis – Part 21: Mixtures of chlorofibres, certain modacrylics, certain elastanes, acetates, triacetates with certain other fibres (method using cyclohexanone)

59.080.30 Tekstilni proizvodi

Europska normizacija
CEN

EN ISO 9092:2019
Nonwovens – Vocabulary (ISO 9092:2019)

59.140.30 Koža i krzno

Europska normizacija
CEN

EN ISO 22700:2019
Leather – Measuring the colour and colour difference of finished leather (ISO 22700:2019)

EN ISO 26082-1:2019
Leather – Physical and mechanical test methods for the determination of soiling – Part 1: Rubbing (Martindale) method (ISO 26082-1:2019)

65.060.10 Poljoprivredni traktori i priključna vozila

Međunarodna normizacija
ISO

ISO 6489-5:2019
Agricultural vehicles – Mechanical connections between towed and towing vehicles – Part 5: Specifications for non-swivel clevis couplings

71.040.10 Kemijski laboratoriji. Laboratorijska oprema

Europska normizacija
CEN

EN 14175-3:2019
Fume cupboards – Part 3: Type test methods

71.040.20 Laboratorijsko posuđe i odgovarajuća aparatura

Europska normizacija
CENELEC

EN 61010-1:2010/A1:2019/AC:2019
Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010/A1:2016/COR1:2019)

Međunarodna normizacija
IEC

IEC 61010-2-012:2019
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

73.060.10 Željezove rude

Međunarodna normizacija
ISO

ISO 4701:2019
Iron ores and direct reduced iron – Determination of size distribution by sieving

75.080 Naftni proizvodi općenito

Europska normizacija
CEN

EN ISO 3405:2019
Petroleum and related products from natural or synthetic sources – Determination of distillation characteristics at atmospheric pressure (ISO 3405:2019)

Međunarodna normizacija
ISO

ISO 3015:2019
Petroleum and related products from natural or synthetic sources – Determination of cloud point

ISO 3016:2019
Petroleum and related products from natural or synthetic sources – Determination of pour point

ISO 22995:2019
Petroleum products – Determination of cloud point – Automated step-wise cooling method

75.180.10 Oprema za iskorištavanje i vađenje

Međunarodna normizacija IEC

IEC 61892-1:2019
Mobile and fixed offshore units – Electrical installations – Part 1: General requirements and conditions

IEC 61892-2:2019
Mobile and fixed offshore units – Electrical installations – Part 2: System design

IEC 61892-3:2019
Mobile and fixed offshore units – Electrical installations – Part 3: Equipment

IEC 61892-4:2019
Mobile and fixed offshore units – Electrical installations – Part 4: Cables

IEC 61892-5:2019
Mobile and fixed offshore units – Electrical installations – Part 5: Mobile units

IEC 61892-6:2019
Mobile and fixed offshore units – Electrical installations – Part 6: Installation

IEC 61892-7:2019
Mobile and fixed offshore units – Electrical installations – Part 7: Hazardous areas

77.080.10 Željezni lijevovi

Međunarodna normizacija ISO

ISO 945-4:2019
Microstructure of cast irons – Part 4: Test method for evaluating nodularity in spheroidal graphite cast irons

77.140.75 Čelične cijevi i čelične cijevi za posebnu namjenu

Europska normizacija CEN

EN 10217-1:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties

EN 10217-2:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties

EN 10217-3:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties

EN 10217-4:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 4: Electric welded non-alloy steel tubes with specified low temperature properties

EN 10217-5:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties

EN 10217-6:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties

77.160 Metalurgija praha

Europska normizacija CEN

EN ISO 4491-4:2019
Metallic powders – Determination of oxygen content by reduction methods – Part 4: Total oxygen by reduction-extraction (ISO 4491-4:2019)

79.120.10 Strojevi za obradu drva

Međunarodna normizacija ISO

ISO 19085-9:2019
Woodworking machines – Safety – Part 9: Circular saw benches (with and without sliding table)

83.080.01 Plastika općenito

Europska normizacija CEN

EN ISO 14851:2019
Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium – Method by measuring the oxygen demand in a closed respirometer (ISO 14851:2019)

Međunarodna normizacija ISO

ISO 6721-1:2019
Plastics – Determination of dynamic mechanical properties – Part 1: General principles

ISO 6721-2:2019
Plastics – Determination of dynamic mechanical properties – Part 2: Torsion-pendulum method

ISO 6721-4:2019
Plastics – Determination of dynamic mechanical properties – Part 4: Tensile vibration – Non-resonance method

ISO 6721-5:2019
Plastics – Determination of dynamic mechanical properties – Part 5: Flexural vibration – Non-resonance method

ISO 6721-6:2019
Plastics – Determination of dynamic mechanical properties – Part 6: Shear vibration – Non-resonance method

ISO 6721-7:2019
Plastics – Determination of dynamic mechanical properties – Part 7: Torsional vibration – Non-resonance method

ISO 6721-8:2019
Plastics – Determination of dynamic mechanical properties – Part 8: Torsional vibration – Non-resonance method

ISO 6721-9:2019
Plastics – Determination of dynamic mechanical properties – Part 9: Tensile vibration – Sonic-pulse propagation method

ISO 13975:2019
Plastics – Determination of the ultimate anaerobic biodegradation of plastic materials in controlled slurry digestion systems – Method by measurement of biogas production

ISO 15512:2019
Plastics – Determination of water content

ISO 17556:2019
Plastics – Determination of the ultimate aerobic biodegradability of plastic materials in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved

83.080.20 Plastomerni materijali

Europska normizacija CEN

- EN ISO 15023-2:2019
Plastics – Poly(vinyl alcohol) (PVAL) materials – Part 2: Determination of properties (ISO 15023-2:2019)
- EN ISO 21304-1:2019
Plastics – Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21304-1:2019)
- EN ISO 21306-1:2019
Plastics – Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21306-1:2019)
- EN ISO 21306-2:2019
Plastics – Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 21306-2:2019)

Međunarodna normizacija ISO

- ISO 307:2019
Plastics – Polyamides – Determination of viscosity number

83.120 Ojačana plastika

Međunarodna normizacija ISO

- ISO 21746:2019
Composites and metal assemblies – Galvanic corrosion tests of carbon fibre reinforced plastics (CFRPs) related bonded or fastened structures in artificial atmospheres – Salt spray tests

83.180 Adhezivi

Međunarodna normizacija ISO

- ISO 11003-1:2019
Adhesives – Determination of shear behaviour of structural adhesives – Part 1: Torsion test method using butt-bonded hollow cylinders
- ISO 15509:2019
Adhesives – Determination of the bond strength of engineering-plastic joints

85.080.20 Tanki upijajući papir

Međunarodna normizacija ISO

- ISO 12625-1:2019
Tissue paper and tissue products – Part 1: Vocabulary

87.040 Boje i lakovi

Europska normizacija CEN

- EN 927-10:2019
Paints and varnishes – Coating materials and coating systems for exterior wood – Part 10: Resistance to blocking of paints and varnishes on wood

Međunarodna normizacija ISO

- ISO 22970:2019
Paints and varnishes – Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap-shear strength test with additional stress by condensation test or cataplasma storage

- ISO 23168:2019
Paints and varnishes – Determination of water content – Gas-chromatographic method

87.060.10 Pigmenti i punila

Međunarodna normizacija ISO

- ISO 18451-1:2019
Pigments, dyestuffs and extenders – Terminology – Part 1: General terms

91.060.40 Dimnjaci, okna, kanali

Europska normizacija CEN

- EN 1366-13:2019
Fire resistance tests for service installations – Part 13: Chimneys
- EN 1443:2019
Chimneys – General requirements
- EN 13216-1:2019
Chimneys – Test methods for system chimneys – Part 1: General test methods

91.060.50 Vrata i prozori

Europska normizacija CEN

- EN 15269-11:2018+AC:2019
Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 11: Fire resistance for operable fabric curtains

91.080.17 Aluminijske konstrukcije

Europska normizacija CEN

- EN 1090-3:2019
Execution of steel structures and aluminium structures – Part 3: Technical requirements for aluminium structures

91.100.50 Veziva. Materijali za brtvljenje

Europska normizacija CEN

- EN 10217-1:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties
- EN 10217-2:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties
- EN 10217-3:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties
- EN 10217-4:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 4: Electric welded non-alloy steel tubes with specified low temperature properties
- EN 10217-5:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties

EN 10217-6:2019
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties

EN 13375:2019
Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Specimen preparation

91.100.60 Materijali za toplinsku i zvučnu izolaciju

Europska normizacija CEN

EN 15101-1:2013+A1:2019
Thermal insulation products for buildings – In-situ formed loose fill cellulose (LFCI) products – Part 1: Specification for the products before installation

91.120.10 Toplinska izolacija

Europska normizacija CEN

EN 16798-1:2019
Energy performance of buildings – Ventilation for buildings – Part 1: Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics – Module M1-6

CEN/TR 16798-2:2019
Energy performance of buildings – Ventilation for buildings – Part 2: Interpretation of the requirements in EN 16798-1 – Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics (Module M1-6)

91.140.01 Instalacije u zgradama općenito

Europska normizacija CEN

EN 16798-1:2019
Energy performance of buildings – Ventilation for buildings – Part 1: Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics – Module M1-6

CEN/TR 16798-2:2019
Energy performance of buildings – Ventilation for buildings – Part 2: Interpretation of the requirements in EN 16798-1 – Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics (Module M1-6)

91.140.10 Sustavi centralnoga grijanja

Europska normizacija CEN

EN 13941-1:2019
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 1: Design

EN 13941-2:2019
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 2: Installation

Međunarodna normizacija IEC

IEC 60335-2-51:2019
Household and similar electrical appliances – Safety – Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations

91.140.50 Sustavi opskrbe električnom energijom

Europska normizacija CEN

HD 60364-7-709:2009/A12:2019
Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Harbours, marinas and similar locations – Special requirements for shore supply to ships

HD 60364-7-711:2019
Low-voltage electrical installations – Part 7-711: Requirements for special installations or locations – Exhibitions, shows and stands (IEC 60364-7-711:2018)

91.140.60 Sustavi opskrbe vodom

Europska normizacija CEN

EN ISO 11177:2019
Vitreous and porcelain enamels – Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply – Quality requirements and testing (ISO 11177:2019)

91.140.70 Sanitarne instalacije

Europska normizacija CEN

EN 33:2019
WC pans and WC suites – Connecting dimensions

91.140.80 Odvodni sustavi

Europska normizacija CEN

EN 1519-1:2019
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Polyethylene (PE) – Part 1: Requirements for pipes, fittings and the system

91.190 Građevni pribor

Europska normizacija CEN

EN 13126-15:2019
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 15: Rollers for horizontal sliding and hardware for sliding folding windows

EN 13126-16:2019
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 16: Hardware for Lift and Slide windows

EN 13126-17:2019
Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 17: Hardware for Tilt and Slide windows

93.100 Gradnja željezničkih pruga

Europska normizacija CEN

EN 15610:2019
Railway applications – Acoustics – Rail and wheel roughness measurement related to noise generation

CENELEC

EN 50121-4:2016/A1:2019
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus

93.140 Gradnja plovnih kanalov i luka

Europska normizacija
CEN

HD 60364-7-709:2009/A12:2019
Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Harbours, marinas and similar locations – Special requirements for shore supply to ships

97.030 Kućanski električni uređaji općenito

Međunarodna normizacija
IEC

IEC 62311:2019
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)

97.060 Praonički uređaji

Međunarodna normizacija
IEC

IEC 60335-2-11:2019
Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers

97.120 Automatsko upravljanje za kućansku upotrebu

Europska normizacija
CENELEC

EN 60730-1:2016/A1:2019
Automatic electrical controls – Part 1: General requirements (IEC 60730-1:2013/A1:2015)

EN 60730-2-5:2015/A1:2019
Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2013/A1:2017)

EN IEC 60730-2-12:2019
Automatic electrical controls – Part 2-12: Particular requirements for electrically operated door locks (IEC 60730-2-12:2015)

EN IEC 60730-2-15:2019
Automatic electrical controls – Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls (IEC 60730-2-15:2017)

97.140 Namještaj

Europska normizacija
CEN

EN 527-2:2016+A1:2019
Office furniture – Work tables – Part 2: Safety, strength and durability requirements

97.150 Netekstilni podni prekrivači

Europska normizacija
CEN

EN 16511:2014+A1:2019
Loose-laid panels – Semi-rigid multilayer modular floor covering (MMF) panels with wear resistant top layer

97.190 Oprema za djecu

Europska normizacija
CEN

CEN/TR 16411:2019
Child care articles – Compiled interpretations of CEN/TC 252 standards

97.200.50 Igračke

Europska normizacija
CEN

EN 71-3:2019
Safety of toys – Part 3: Migration of certain elements

Međunarodna normizacija
ISO

ISO 8124-10:2019
Safety of toys – Part 10: Experimental sets for chemistry and related activities

ISO 8124-11:2019
Safety of toys – Part 11: Chemical toys (sets) other than experimental sets

97.220.20 Oprema za zimske sportove

Međunarodna normizacija
ISO

ISO 5355:2019
Alpine ski-boots – Requirements and test methods

ISO 9523:2019
Touring ski-boots for adults – Interface with touring ski-bindings – Requirements and test methods