

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

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Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrtu hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije 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 tri načina:

- prihvaćanjem stranih (međunarodnih/europskih/nacionalnih) norma uz prevođenje na hrvatski jezik (pp)
- 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 5, *Metalne cijevi i priključci*

HRN EN 1092-2:2023 en pr  
Prirubnice i njihovi spojevi – Okrugle prirubnice za cijevi, ventile, spojne dijelove i pribor, označene prema PN-u – 2. dio: Lijevano-željezne prirubnice (EN 1092-2:2023)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 2: Cast iron flanges (EN 1092-2:2023)

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

HRN EN ISO 3104:2023 en pr  
Naftni proizvodi – Prozirne i neprozirne tekućine – Određivanje kinematičke viskoznosti i izračunavanje dinamičke viskoznosti (ISO 3104:2023; EN ISO 3104:2023)  
Petroleum products – Transparent and opaque liquids – Determination of kinematic viscosity and calculation of dynamic viscosity (ISO 3104:2023; EN ISO 3104:2023)

### HZN/TO 37, *Terminologija*

HRN ISO 704:2023 en pr  
Terminološki rad – Načela i metode (ISO 704:2022)  
Terminology work – Principles and methods (ISO 704:2022)

HRN ISO 12199:2023 en pr  
Abecedni redosljed višejezičnih terminoloških i leksikografskih podataka prikazanih latiničnom abecedom (ISO 12199:2022)  
Alphabetical ordering of multilingual terminological and lexicographical data represented in the Latin alphabet (ISO 12199:2022)

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

HRN EN ISO 14919:2023 en pr  
Toplinsko naštrcavanje – Žice, šipke i pletena žica za naštrcavanje pomoću plinskoga plamena i električnog luka – Razredba i tehnički uvjeti isporuke (ISO 14919:2023; EN ISO 14919:2023)  
Thermal spraying – Wires, rods and cords for flame and arc spraying – Classification and technical supply conditions (ISO 14919:2023; EN ISO 14919:2023)

HRN EN ISO 15614-13:2023 en pr  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 13. dio: Sučeljeno elektrootporno zavarivanje pritiskom i zavarivanje iskrenjem (ISO 15614-13:2023; EN ISO 15614-13:2023)  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 13: Upset (resistance butt) and flash welding (ISO 15614-13:2023; EN ISO 15614-13:2023)

HRN EN ISO 18279:2023 en pr  
Tvrdo lemljenje – Nepravilnosti u tvrdo lemljenim spojevima (ISO 18279:2023; EN ISO 18279:2023)  
Brazing – Imperfections in brazed joints (ISO 18279:2023; EN ISO 18279:2023)

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

HRN ISO 2789:2023 en pr  
Informacije i dokumentacija – Međunarodna knjižnična statistika (ISO 2789:2022)  
Information and documentation – International library statistics (ISO 2789:2022)

HRN ISO 3297:2023 en pr  
Informacije i dokumentacija – Međunarodni standardni broj serijske publikacije (ISSN) (ISO 3297:2022)  
Information and documentation – International standard serial number (ISSN) (ISO 3297:2022)

HRN ISO 15707:2023 en pr  
Informacije i dokumentacija – Međunarodni standardni kod za glazbena djela (ISWC) (ISO 15707:2022)  
Information and documentation – International Standard Musical Work Code (ISWC) (ISO 15707:2022)

HRN ISO 26324:2023 en pr  
Informacije i dokumentacija – Sustav digitalnog identifikatora objekta (ISO 26324:2022)  
Information and documentation – Digital object identifier system (ISO 26324:2022)

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

HRN ISO 3951-1:2023 en pr  
Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“ (ISO 3951-1:2022)  
Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL (ISO 3951-1:2022)

HRN ISO 10576:2023 en pr  
Statističke metode – Smjernice za vrednovanje usklađenosti s utvrđenim zahtjevima (ISO 10576:2022)  
Statistical methods – Guidelines for the evaluation of conformity with specified requirements (ISO 10576:2022)

### HZN/TO 71, *Beton*

HRN 1128:2023/A1:2023 hr izv  
Beton – Nacionalni zahtjevi uz normu HRN EN 206:2021  
Concrete – National requirements to HRN EN 206:2021

HRN EN 12390-6:2023 en pr  
Ispitivanje očvrstloga betona – 6. dio: Vlačna čvrstoća cijepanjem ispitnih uzoraka (EN 12390-6:2023)  
Testing hardened concrete – Part 6: Tensile splitting strength of test specimens (EN 12390-6:2023)

### HZN/TO 120, *Koža i obuća*

HRN EN ISO 20137:2023 en pr  
Koža – Kemijska ispitivanja – Smjernice za ispitivanje štetnih kemikalija u koži (ISO 20137:2023; EN ISO 20137:2023)  
Leather – Chemical tests – Guidelines for testing critical chemicals in leather (ISO 20137:2023; EN ISO 20137:2023)

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

HRN EN ISO 80601-2-12:2023 en pr  
Medicinska električna oprema – Dio 2-12: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke respiratora za intenzivnu njegu (ISO 80601-2-12:2023; EN ISO 80601-2-12:2023)  
Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators (ISO 80601-2-12:2023; EN ISO 80601-2-12:2023)

HRN EN ISO 80601-2-84:2023 en pr  
Medicinska električna oprema – Dio 2-84: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke respiratora za hitnu medicinsku skrb (ISO 80601-2-84:2023; EN ISO 80601-2-84:2023)  
Medical electrical equipment – Part 2-84: Particular requirements for the basic safety and essential performance of ventilators for the emergency medical services environment (ISO 80601-2-84:2023; EN ISO 80601-2-84:2023)

## HZN/TO 130, *Grafička tehnologija*

HRN ISO 2834-2:2023 en pr  
Grafička tehnologija – Laboratorijska priprema probnih otisaka – 2. dio: Tekuće tiskarske (ISO 2834-2:2022)  
Graphic technology – Laboratory preparation of test prints – Part 2: Liquid printing inks (ISO 2834-2:2022)

HRN ISO 5776:2023 en pr  
Grafička tehnologija – Simboli za ispravljanje teksta probnog otiska (ISO 5776:2022)  
Graphic technology – Symbols for text proof correction (ISO 5776:2022)

HRN ISO 12635:2023 en pr  
Grafička tehnologija – Ploče za ofsetni tisak – Dimenzije (ISO 12635:2021)  
Graphic technology – Plates for offset printing – Dimensions (ISO 12635:2021)

HRN ISO 12640-3:2023 en pr  
Grafička tehnologija – Razmjena digitalnih podataka u grafičkoj pripremi - 3. dio: CIELAB standardni podaci za kolornu sliku (CIELAB/SCID) (ISO 12640-3:2022)  
Graphic technology – Prepress digital data exchange – Part 3: CIELAB standard colour image data (CIELAB/SCID) (ISO 12640-3:2022)

HRN ISO 19445:2023 en pr  
Grafička tehnologija – Metapodaci za radne tokove (workflow) grafičkih ilustracija – XMP metapodaci za slike i probne otiske dokumenata (ISO 19445:2022)  
Graphic technology – Metadata for graphic arts workflow – XMP metadata for image and document proofing (ISO 19445:2022)

HRN ISO 28178:2023 en pr  
Grafička tehnologija – Format razmjene kontrolnih podataka boja i procesa korištenjem XML ili ASCII teksta (ISO 28178:2022)  
Graphic technology – Exchange format for colour and process control data using XML or ASCII text (ISO 28178:2022)

## HZN/TO 136, *Namještaj*

HRN EN 1022:2023 en pr  
Namještaj – Namještaj za sjedenje – Određivanje stabilnosti (EN 1022:2023)  
Furniture – Seating – Determination of stability (EN 1022:2023)

HRN EN 1725:2023 en pr  
Namještaj – Kreveti – Zahtjevi za sigurnost, čvrstoću i izdržljivost (EN 1725:2023)  
Furniture – Beds – Requirements for safety, strength and durability (EN 1725:2023)

HRN EN 12521:2023 en pr  
Namještaj – Čvrstoća, trajnost i sigurnost – Zahtjevi za stolove za kućnu uporabu (EN 12521:2023)  
Furniture – Safety, strength and durability – Requirements for domestic tables (EN 12521:2023)

HRN EN 14434:2023 en pr  
Ploče za pisanje za obrazovne ustanove – Ergonomski, tehnički i sigurnosni zahtjevi i metode njihova ispitivanja (EN 14434:2023)  
Writing boards for educational institutions – Ergonomic, technical and safety requirements and their test methods (EN 14434:2023)

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

HRN ISO 17123-6:2023 en pr  
Optika i optički instrumenti – Terenski postupci za ispitivanje geodetskih instrumenata i instrumenata izmjere – 6. dio: Rotirajući laseri (ISO 17123-6:2022)  
Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 6: Rotating lasers (ISO 17123-6:2022)

## HZN/TO 215, *Zdravstvena informatika*

HRN EN ISO 21549-5:2023 en pr  
Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 5. dio: Identifikacijski podaci (ISO 21549-5:2023; EN ISO 21549-5:2023)  
Health informatics – Patient healthcard data – Part 5: Identification data (ISO 21549-5:2023; EN ISO 21549-5:2023)

## HZN/TO 221, *Geosintetici*

HRN EN ISO 9862:2023 en pr  
Geosintetici – Uzorkovanje i priprema ispitnih uzoraka (ISO 9862:2023; EN ISO 9862:2023)  
Geosynthetics – Sampling and preparation of test specimens (ISO 9862:2023; EN ISO 9862:2023)

## HZN/TO 503, *Metalni materijali*

HRN EN 10278:2023 en pr  
Mjere i dopuštena odstupanja svijetlo vučenih čeličnih proizvoda od nehrđajućeg čelika i drugih specijalnih čelika (EN 10278:2023)  
Dimensions and tolerances of bright steel products of stainless and other special steels (EN 10278:2023)

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

HRN EN ISO 19905-1:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim udjelom ugljika – Procjena pokretnih odobalnih jedinica s obzirom na njihovu lokaciju – 1. dio: Samopodizne platforme koje se podižu na lokaciji (ISO 19905-1:2023; EN ISO 19905-1:2023)  
Oil and gas industries including lower carbon energy – Site-specific assessment of mobile offshore units – Part 1: Jack-ups: elevated at a site (ISO 19905-1:2023; EN ISO 19905-1:2023)

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

HRN ISO 4359:2023 en pr  
Strukture za mjerenje protoka – Pravokutna, trapezoidna i U-oblikovana suženja toka (ISO 4359:2022)  
Flow measurement structures – Rectangular, trapezoidal and U-shaped flumes (ISO 4359:2022)

HRN ISO 9277:2023 en pr  
Određivanje specifične površine krutine plinskom adsorpcijom – BET metoda (ISO 9277:2022)  
Determination of the specific surface area of solids by gas adsorption – BET method (ISO 9277:2022)

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

HRN EN 17905:2023 en pr  
Aplikacijski protokol više razine (HLAP) u hibridnom mrežnom okruženju komutacijske mreže i mreže s komutacijom paketa koji se odnosi na hitne elektroničke pozive iz vozila (EN 17905:2023)  
Intelligent transport systems – eSafety – eCall HLAP in hybrid circuit switched/packet switched network environments (EN 17905:2023)

## HZN/TO 528, *Oprema za željeznice*

HRN EN 12663-1:2023 en pr  
Željeznički sustav – Konstrukcijski zahtjevi za sanduk željezničkih vozila – 1. dio: Lokomotive i putnička željeznička vozila (i alternativna metoda za teretne vagoni) (EN 12663-1:2010+A2:2023)  
Railway applications – Structural requirements of railway vehicle bodies – Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons) (EN 12663-1:2010+A2:2023)

HRN EN 13231-1:2023 en pr  
Željeznički sustav – Infrastruktura – Preuzimanje radova – 1. dio: Radovi na kolosijeku sa zastorom – Otvorena pruga, skretnice i križišta (EN 13231-1:2023)  
Railway applications – Infrastructure – Acceptance of works – Part 1: Works on ballasted track – Plain line, switches and crossings (EN 13231-1:2023)

HRN EN 13749:2023 en pr  
Željeznički sustav – Osovinski sklopovi i okretna postolja – Metode definiranja zahtjeva za oblikovanje okvira okretnih postolja (EN 13749:2021+A1:2023)  
Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames (EN 13749:2021+A1:2023)

HRN EN 16235:2023 en pr  
Željeznički sustav – Ispitivanje prihvatljivosti voznih značajki željezničkih vozila – Teretni vagoni – Uvjeti za podjelu teretnih vagona s definiranim značajkama iz ispitivanja na kolosijeku prema EN 14363 (EN 16235:2023)  
Railway applications – Testing for the acceptance of running characteristics of railway vehicles – Freight wagons – Conditions for dispensation of freight wagons with defined characteristics from on-track tests according to EN 14363 (EN 16235:2023)

HRN EN 16286-2:2023 en pr  
Željeznički sustav – Prijelaznice između vozila – 2. dio: Mjerenje buke (EN 16286-2:2023)  
Railway applications – Gangway systems between vehicles – Part 2: Acoustic measurements (EN 16286-2:2023)

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

HRN EN ISO 4608:2023 en pr  
Plastika – Homopolimeri i kopolimeri vinil-klorida za opću uporabu – Određivanje apsorpcije omekšavala pri sobnoj temperaturi (ISO 4608:2023; EN ISO 4608:2023)  
Plastics – Homopolymer and copolymer resins of vinyl chloride for general use – Determination of plasticizer absorption at room temperature (ISO 4608:2023; EN ISO 4608:2023)

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

HRN EN 16035:2023 en pr  
Lista svojstava okova (HPS) – Identifikacija i sažetak dokaza ispitivanja za omogućavanje međusobne izmjenjivosti građevnih okova za primjenu na vatrootpornim i/ili dimonepropusnim vratima i/ili prozorima koji se mogu otvarati (EN 16035:2023)  
Hardware performance sheet (HPS) – Identification and summary of test evidence to facilitate the inter-changeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows (EN 16035:2023)

HRN EN 17839:2023 en pr  
Staklo u graditeljstvu – Ostakljenje i izolacija od zvuka prenošenog zrakom – Postupak validacije proračunskih alata (EN 17839:2023)  
Glass in building – Glazing and airborne sound insulation – Validation procedure for calculation tools (EN 17839:2023)

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

HRN EN ISO 11855-2:2021/A1:2023 en pr  
Projektiranje unutrašnjosti zgrada – Ugradbeni sustavi grijanja i hlađenja zračenjem – 2. dio: Određivanje projektnog toplinskog i rashladnog učinka (ISO 11855-2:2021/Amd 1:2023; EN ISO 11855-2:2021/A1:2023)  
Building environment design – Embedded radiant heating and cooling systems – Part 2: Determination of the design heating and cooling capacity (ISO 11855-2:2021/Amd 1:2023; EN ISO 11855-2:2021/A1:2023)

HRN EN 17690-1:2023 en pr  
Komponente za BAC upravljačku petlju – Osjetnici – 1. dio: Osjetnici sobne temperature (EN 17690-1:2023)  
Components for BAC control loop – Sensors – Part 1: Room temperature sensors (EN 17690-1:2023)

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

HRN EN 1991-2:2023 en pr  
Eurokod 1 – Djelovanja na konstrukcije – 2. dio: Prometna opterećenja mostova i drugih inženjerskih građevina (EN 1991-2:2023)  
Eurocode 1 – Actions on structures – Part 2: Traffic loads on bridges and other civil engineering works (EN 1991-2:2023)

HRN EN 1992-1-1:2023 en pr  
Eurokod 2 – Projektiranje betonskih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade, mostove i građevinske konstrukcije (EN 1992-1-1:2023)  
Eurocode 2 – Design of concrete structures – Part 1-1: General rules and rules for buildings, bridges and civil engineering structures (EN 1992-1-1:2023)

HRN EN 1992-1-2:2023 en pr  
Eurokod 2 – Projektiranje betonskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara (EN 1992-1-2:2023)  
Eurocode 2 – Design of concrete structures – Part 1-2: Structural fire design (EN 1992-1-2:2023)

HRN EN 1996-3:2023 en pr  
Eurokod 6 – Projektiranje zidanih konstrukcija – 3. dio: Pojednostavnjene proračunske metode za nearmirane zidane konstrukcije (EN 1996-3:2023)  
Eurocode 6 – Design of masonry structures – Part 3: Simplified calculation methods for unreinforced masonry structures (EN 1996-3:2023)

HRS CEN/TS 19102:2023 en pr  
Projektiranje napetih membranskih konstrukcija (CEN/TS 19102:2023)  
Design of tensioned membrane structures (CEN/TS 19102:2023)

HRN EN 1999-1-1:2023/NA:2023 hr-en izv  
Eurokod 9 – Projektiranje aluminijskih konstrukcija – Dio 1-1: Opća pravila – Nacionalni dodatak  
Eurocode 9 – Design of aluminium structures – Part 1-1: General rules – National Annex

HRN EN 1999-1-2:2023/NA:2023 hr-en izv  
Eurokod 9 – Projektiranje aluminijskih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara – Nacionalni dodatak  
Eurocode 9 – Design of aluminium structures – Part 1-2: Structural fire design – National Annex

HRN EN 1999-1-3:2023/NA:2023 hr-en izv  
Eurokod 9 – Projektiranje aluminijskih konstrukcija – Dio 1-3: Konstrukcije osjetljive na zamor – Nacionalni dodatak  
Eurocode 9 – Design of aluminium structures – Part 1-3: Structures susceptible to fatigue – National Annex

HRN EN 1999-1-4:2023/NA:2023 hr-en izv  
Eurokod 9 – Projektiranje aluminijskih konstrukcija – Dio 1-4: Hladno oblikovani konstrukcijski limovi – Nacionalni dodatak  
Eurocode 9 – Design of aluminium structures – Part 1-4: Cold-formed structural sheeting – National Annex

HRN EN 1999-1-5:2023/NA:2023 hr-en izv  
Eurokod 9 – Projektiranje aluminijskih konstrukcija – Dio 1-5: Ljuskaste konstrukcije – Nacionalni dodatak  
Eurocode 9 – Design of aluminium structures – Part 1-5: Shell structures – National Annex

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

HRN ISO 6707-2:2023 en pr  
Zgrade i inženjerske građevine – Terminološki rječnik – 2. dio: Nazivi koji se odnose na ugovaranje i komunikaciju (ISO 6707-2:2017)  
Buildings and civil engineering works – Vocabulary – Part 2: Contract and communication terms (ISO 6707-2:2017)

HRN ISO 11527:2023 en pr  
Zgrade i inženjerske građevine – Brtvila – Metoda ispitivanja za određivanje ljepljivosti (ISO 11527:2018)  
Buildings and civil engineering works – Sealants – Test method for the determination of stringiness (ISO 11527:2018)

HRN ISO 15686-5:2023 en pr  
Građevine – Planiranje uporabnog vijeka – 5. dio: Trošak životnog ciklusa (ISO 15686-5:2017)  
Buildings and constructed assets – Service life planning – Part 5: Life-cycle costing (ISO 15686-5:2017)

HRN ISO 16938-1:2023 en pr  
Zgrade i inženjerske građevine – Određivanje zaprljanja poroznih podloga brtvilima upotrijebljenim u spojevima – 1. dio: Ispitivanje tlakom (ISO 16938-1:2019)  
Buildings and civil engineering works – Determination of the staining of porous substrates by sealants used in joints – Part 1: Test with compression (ISO 16938-1:2019)

HRN ISO 16938-2:2023 en pr  
Zgrade i inženjerske građevine – Određivanje zaprljanja poroznih podloga brtvilima upotrijebljenim u spojevima – 2. dio: Ispitivanje bez tlaka (ISO 16938-2:2019)  
Buildings and civil engineering works – Determination of the staining of porous substrates by sealants used in joints – Part 2: Test without compression (ISO 16938-2:2019)

HRN ISO 21928-2:2023 en pr  
Održivost zgrada i inženjerskih građevina – Pokazatelji održivosti – 2. dio: Okvir za razvoj pokazatelja za inženjerske građevine (ISO 21928-2:2023)  
Sustainability in buildings and civil engineering works – Sustainability indicators – Part 2: Framework for the development of indicators for civil engineering works (ISO 21928-2:2023)

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

HRN EN 13369:2023 en pr  
Opća pravila za predgotovljene betonske elemente (EN 13369:2023)  
Common rules for precast concrete products (EN 13369:2023)

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

HRN EN 12255-9:2023 en pr  
Uređaji za pročišćivanje otpadnih voda – 9. dio: Kontrola mirisa i ventilacija (EN 12255-9:2023)  
Wastewater treatment plants – Part 9: Odour control and ventilation (EN 12255-9:2023)

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

HRN EN ISO 10993-17:2023 en pr  
Biološka procjena medicinskih uređaja – 17. dio: Toksikološka procjena rizika za sastavnice medicinskih uređaja (ISO 10993-17:2023; EN ISO 10993-17:2023)  
Biological evaluation of medical devices – Part 17: Toxicological risk assessment of medical device constituents (ISO 10993-17:2023; EN ISO 10993-17:2023)

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

HRN EN 19:2023 en pr  
Industrijski zaporni uređaji – Označavanje metalnih zapornih uređaja (EN 19:2023)  
Industrial valves – Marking of metallic valves (EN 19:2023)

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

HRN EN ISO 9073-18:2023 en pr  
Netkani tekstil – Metode ispitivanja – 18. dio: Određivanje prekidne sile i prekidnog istezanja grab metodom (ISO 9073-18:2023; EN ISO 9073-18:2023)  
Nonwovens – Test methods – Part 18: Determination of tensile strength and elongation at break using the grab tensile test (ISO 9073-18:2023; EN ISO 9073-18:2023)

HRN ISO 9867:2023 en pr  
Tekstil – Vrednovanje oporavka tkanine nakon gužvanja – Metoda procjene izgleda (ISO 9867:2022)  
Textiles – Evaluation of the wrinkle recovery of fabrics – Appearance method (ISO 9867:2022)

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

HRN EN 13480-4:2017/A1:2023 en pr  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2017/A1:2023)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2017/A1:2023)

HRN EN 13480-4:2017/A2:2023 en pr  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2017/A2:2023)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2017/A2:2023)

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

HRN EN 1417:2023 en pr  
Strojevi za gumu i plastiku – Dvovaljčana glodala – Sigurnosni zahtjevi (EN 1417:2023)  
Plastics and rubber machines – Two-roll mills – Safety requirements (EN 1417:2023)

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

HRN EN 15518-3:2023 en pr  
Oprema za zimsko održavanje – Informatički sustav o vremenu na cestama – 3. dio: Zahtjevi za izmjerene vrijednosti nepomične opreme (EN 15518-3:2023)  
Winter maintenance equipment – Road weather information systems – Part 3: Requirements on measured values of stationary equipment (EN 15518-3:2023)

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

HRN EN ISO 15213-2:2023 en pr  
Mikrobiologija u lancu hrane – Horizontalna metoda za dokazivanje i određivanje broja Clostridium spp. – 2. dio: Određivanje broja Clostridium perfringens tehnikom brojenja kolonija (ISO 15213-2:2023; EN ISO 15213-2:2023)  
Microbiology of the food chain – Horizontal method for the detection and enumeration of Clostridium spp. – Part 2: Enumeration of Clostridium perfringens by colony-count technique (ISO 15213-2:2023; EN ISO 15213-2:2023)

HRN EN ISO 17468:2023 en pr  
Mikrobiologija u lancu hrane – Tehnički zahtjevi i upute o uspostavljanju ili reviziji standardnih referentnih metoda (ISO 17468:2023; EN ISO 17468:2023)  
Microbiology of the food chain – Technical requirements and guidance on establishment or revision of a standardized reference method (ISO 17468:2023; EN ISO 17468:2023)

#### **HZN/TO 569, Hrana za životinje**

HRN ISO 5984:2023 en pr  
Hrana za životinje – Određivanje sirovog pepela (ISO 5984:2022)  
Animal feeding stuffs – Determination of crude ash (ISO 5984:2022)

#### **HZN/TO 574, Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama**

HRN ISO 10008:2023 en pr  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice za elektroničke trgovinske transakcije za poslovanje s potrošačem (ISO 10008:2022)  
Quality management – Customer satisfaction – Guidance for business-to-consumer electronic commerce transactions (ISO 10008:2022)

#### **HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša**

HRN EN 17516:2023 en pr  
Otpad – Karakterizacija zrnatih krutina s potencijalom za upotrebu kao zamjenskoga građevnog materijala – Provjera izluživanja – Ispitivanje up-flow cijedenja (EN 17516:2023)  
Waste – Characterization of granular solids with potential for use as construction material – Compliance leaching test – Up-flow percolation test (EN 17516:2023)

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

HRN EN 50716:2023 en pr  
Željeznički sustav – Zahtjevi za razvoj programske podrške (EN 50716:2023)  
Railway Applications – Requirements for software development (EN 50716:2023)

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

HRN EN IEC 62271-103:2023 en pr  
Visokonaponska sklopna aparatura – 103. dio: Sklopke izmjenične struje za nazivne naponne iznad 1 kV do uključujući 52 kV (IEC 62271-103:2021; EN IEC 62271-103:2023)  
High-voltage switchgear and controlgear – Part 103: Alternating current switches for rated voltages above 1 kV up to and including 52 kV (IEC 62271-103:2021; EN IEC 62271-103:2023)

HRN EN IEC 62271-105:2023 en pr  
Visokonaponska sklopna aparatura – 105. dio: Sklopke s osiguračima izmjenične struje za nazivne napone iznad 1 kV do uključujući 52 kV (IEC 62271-105:2021; EN IEC 62271-105:2023)  
High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV (IEC 62271-105:2021; EN IEC 62271-105:2023)

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

HRN EN IEC 63356-1:2023 en pr  
Značajke izvora svjetla sa svjetlećim diodama – 1. dio: Listovi s podacima (IEC 63356-1:2023; EN IEC 63356-1:2023)  
LED light source characteristics – Part 1: Data sheets (IEC 63356-1:2023; EN IEC 63356-1:2023)

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

HRN EN 60335-1:2012/A16:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – 1. dio: Opći zahtjevi (EN 60335-1:2012/A16:2023)  
Household and similar electrical appliances – Safety – Part 1: General requirements (EN 60335-1:2012/A16:2023)

HRN EN IEC 60335-2-110:2021/A1:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-110: Posebni zahtjevi za ugostiteljske mikrovalne pećnice s umetkom ili kontaktim aplikatorom (IEC 60335-2-110:2013/am1:2019; EN IEC 60335-2-110:2021/A1:2023)  
Household and similar electrical appliances – Safety – Part 2-110: Particular requirements for commercial microwave appliances with insertion or contacting applicators (IEC 60335-2-110:2013/am1:2019; EN IEC 60335-2-110:2021/A1:2023)

HRN EN IEC 60335-2-2:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-2: Posebni zahtjevi za usisavače prašine i usisavače vode (IEC 60335-2-2:2019; EN IEC 60335-2-2:2023)  
Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances (IEC 60335-2-2:2019; EN IEC 60335-2-2:2023)

HRN EN IEC 60335-2-2:2023/A11:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-2: Posebni zahtjevi za usisavače prašine i usisavače vode (EN IEC 60335-2-2:2023/A11:2023)  
Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances (EN IEC 60335-2-2:2023/A11:2023)

HRN EN IEC 60335-2-51:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-51: Posebni zahtjevi za neprenosive optične crpke uređaja za grijanje (IEC 60335-2-51:2019; EN IEC 60335-2-51:2023)  
Household and similar electrical appliances – Safety – Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations (IEC 60335-2-51:2019; EN IEC 60335-2-51:2023)

HRN EN IEC 60335-2-51:2023/A11:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-51: Posebni zahtjevi za neprenosive optične crpke uređaja za grijanje (EN IEC 60335-2-51:2023/A11:2023)  
Household and similar electrical appliances – Safety – Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations (EN IEC 60335-2-51:2023/A11:2023)

HRN EN IEC 60335-2-7:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-7: Posebni zahtjevi za perilice rublja (IEC 60335-2-7:2019; EN IEC 60335-2-7:2023)  
Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines (IEC 60335-2-7:2019; EN IEC 60335-2-7:2023)

HRN EN IEC 60335-2-7:2023/A11:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-7: Posebni zahtjevi za perilice rublja (EN IEC 60335-2-7:2023/A11:2023)  
Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines (EN IEC 60335-2-7:2023/A11:2023)

HRN EN IEC 60335-2-89:2022/Ispr.1:2023 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-89: Posebni zahtjevi za komercijalne rashladne aparate i ledomate s ugrađenim ili udaljenim kondenzatorom ili kompresorom (IEC 60335-2-89:2019/Corr.3:2023; EN IEC 60335-2-89:2022/AC:2023)  
Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor (IEC 60335-2-89:2019/Corr.3:2023; EN IEC 60335-2-89:2022/AC:2023)

### **HZN/TO E81, Zaštita od munje**

HRN EN IEC 62561-4:2023 en pr  
Komponente sustava zaštite od munje (LPSC) – 4. dio: Zahtjevi za držače vodiča (IEC 62561-4:2023; EN IEC 62561-4:2023)  
Lightning protection system components (LPSC) – Part 4: Requirements for conductor fasteners (IEC 62561-4:2023; EN IEC 62561-4:2023)

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

HRN EN 16687:2023 en,fr,de pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Nazivlje (EN 16687:2023)  
Construction products: Assessment of release of dangerous substances – Terminology (EN 16687:2023)

HRN EN 17195:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza anorganskih tvari u eluatima (EN 17195:2023)  
Construction products: Assessment of release of dangerous substances – Analysis of inorganic substances in eluates (EN 17195:2023)

HRN EN 17196:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Digestija zlatotopkom za naknadnu analizu anorganskih tvari (EN 17196:2023)  
Construction products: Assessment of release of dangerous substances – Digestion by aqua regia for subsequent analysis of inorganic substances (EN 17196:2023)

HRN EN 17197:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza anorganskih tvari u produktima digestije i eluatima – Analiza optičkom emisijskom spektrometrijom s induktivno spregnutom plazmom (EN 17197:2023)  
Construction products: Assessment of release of dangerous substances – Analysis of inorganic substances in digests and eluates – Analysis by inductively coupled plasma optical emission spectrometry (ICP-OES) (EN 17197:2023)

HRN EN 17200:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza makroelemenata, mikroelemenata i elemenata u tragovima u produktima digestije i eluatima spektrometrijom masa s induktivno spregnutom plazmom (ICP-MS) (EN 17200:2023)  
Construction products: Assessment of release of dangerous substances – Analysis of inorganic substances in digests and eluates – Analysis by inductively coupled plasma mass spectrometry (ICP-MS) (EN 17200:2023)

HRN EN 17201:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Sadržaj anorganskih tvari – Metode analize produkata digestije zlatotopkom (EN 17201:2023)  
Construction products: Assessment of release of dangerous substances – Content of inorganic substances – Methods for analysis of aqua regia digests (EN 17201:2023)

HRN EN 17331:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Sadržaj organskih tvari – Metode ekstrakcije i analize (EN 17331:2023)  
Construction products: Assessment of release of dangerous substances – Content of organic substances – Methods for extraction and analysis (EN 17331:2023)

HRN EN 17332:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza organskih tvari u eluatima (EN 17332:2023)  
Construction products: Assessment of release of dangerous substances – Analysis of organic substances in eluates (EN 17332:2023)

HRN EN 17844:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Određivanje sadržaja policikličkih aromatskih ugljikovodika (PAH) i sadržaja benzena, toluena, etilbenzena i ksilena (BTEX) – Plinsko-kromatografska metoda s detekcijom masenom spektrometrijom (EN 17844:2023)  
Construction products: Assessment of release of dangerous substances – Determination of the content of polycyclic aromatic hydrocarbons (PAH) and of benzene, toluene, ethylbenzene and xylenes (BTEX) – Gas chromatographic method with mass spectrometric detection (EN 17844:2023)

HRN EN 17845:2023 en pr  
Građevni proizvodi: Procjena otpuštanja opasnih tvari – Određivanje ostataka biocida tekućinskom kromatografijom uz detekciju spektrometrijom masa (LC-MS/MS) (EN 17845:2023)  
Construction products: Assessment of release of dangerous substances – Determination of biocide residues using liquid chromatography with mass spectrometric detection (LC-MS/MS) (EN 17845:2023)

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

HRN EN ISO 2811-3:2023 en pr  
Boje i lakovi – Određivanje gustoće – 3. dio: Oscilacijska metoda (ISO 2811-3:2023; EN ISO 2811-3:2023)  
Paints and varnishes – Determination of density – Part 3: Oscillation method (ISO 2811-3:2023; EN ISO 2811-3:2023)

HRN EN ISO/ASTM 52908:2023 en pr  
Aditivna proizvodnja metala – Svojstva gotovih dijelova – Dorada, pregled i ispitivanje dijelova izrađenih stapanjem praškastih slojeva (ISO/ASTM 52908:2023; EN ISO/ASTM 52908:2023)  
Additive manufacturing of metals – Finished Part properties – Post-processing, inspection and testing of parts produced by powder bed fusion (ISO/ASTM 52908:2023; EN ISO/ASTM 52908:2023)

HRN EN ISO/ASTM 52926-1:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – 1. dio: Opći kriteriji kvalificiranosti rukovatelja (ISO/ASTM 52926-1:2023; EN ISO/ASTM 52926-1:2023)  
Additive Manufacturing of metals – Qualification principles – Part 1: General qualification of operators (ISO/ASTM 52926-1:2023; EN ISO/ASTM 52926-1:2023)

HRN EN ISO/ASTM 52926-2:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – 2. dio: Kriteriji kvalificiranosti rukovatelja za PBF-LB (ISO/ASTM 52926-2:2023; EN ISO/ASTM 52926-2:2023)  
Additive Manufacturing of metals – Qualification principles – Part 2: Qualification of operators for PBF-LB (ISO/ASTM 52926-2:2023; EN ISO/ASTM 52926-2:2023)

HRN EN ISO/ASTM 52926-3:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – 3. dio: Kriteriji kvalificiranosti rukovatelja za PBF-EB (ISO/ASTM 52926-3:2023; EN ISO/ASTM 52926-3:2023)  
Additive Manufacturing of metals – Qualification principles – Part 3: Qualification of operators for PBF-EB (ISO/ASTM 52926-3:2023; EN ISO/ASTM 52926-3:2023)

HRN EN ISO/ASTM 52926-4:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – 4. dio: Kriteriji kvalificiranosti rukovatelja za DED-LB (ISO/ASTM 52926-4:2023; EN ISO/ASTM 52926-4:2023)  
Additive Manufacturing of metals – Qualification principles – Part 4: Qualification of operators for DED-LB (ISO/ASTM 52926-4:2023; EN ISO/ASTM 52926-4:2023)

HRN EN ISO/ASTM 52926-5:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – 5. dio: Kriteriji kvalificiranosti rukovatelja za DED-Arc (ISO/ASTM 52926-5:2023; EN ISO/ASTM 52926-5:2023)  
Additive Manufacturing of metals – Qualification principles – Part 5: Qualification of operators for DED-Arc (ISO/ASTM 52926-5:2023; EN ISO/ASTM 52926-5:2023)

HRN EN ISO/ASTM 52935:2023 en pr  
Aditivna proizvodnja metala – Načela ispitivanja kvalificiranosti – Ispitivanje kvalificiranosti osoblja za koordinaciju aditivne proizvodnje (ISO/ASTM 52935:2023; EN ISO/ASTM 52935:2023)  
Additive manufacturing of metals – Qualification principles – Qualification of coordination personnel (ISO/ASTM 52935:2023; EN ISO/ASTM 52935:2023)

### **HZN/TU F1, Osnovne norme 1**

HRN EN 14450:2023 en pr  
Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – Sigurnosni ormari (EN 14450:2017+A1:2023)  
Secure storage units – Requirements, classification and methods of test for resistance to burglary – Secure cabinets (EN 14450:2017+A1:2023)

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

HRN EN 17877:2023 en pr  
Dinamičke miješalice i agitatori – Definicije i hidrauličke karakteristike (EN 17877:2023)  
Dynamic mixers and agitators – Definitions and hydraulic characterizations (EN 17877:2023)

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

HRN EN ISO 24252:2022/A11:2023 en pr  
Sustavi proizvodnje bioplina – Nekućanski sustavi bez uplinjavanja (EN ISO 24252:2022/A11:2023)  
Biogas systems – Non-household and non-gasification (EN ISO 24252:2022/A11:2023)

HRN EN ISO 26443:2023 en pr  
Fina keramika (napredna keramika, napredna tehnička keramika) – Ispitivanje utiskivanjem prema Rockwellu za procjenu prijanjanja keramičkih premaza (ISO 26443:2023; EN ISO 26443:2023)  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Rockwell indentation test for evaluation of adhesion of ceramic coatings (ISO 26443:2023; EN ISO 26443:2023)

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

HRN EN 455-3:2023 en pr  
Medicinske rukavice za jednokratnu upotrebu – 3. dio: Zahtjevi i ispitivanje za biološko vrednovanje (EN 455-3:2023)  
Medical gloves for single use – Part 3: Requirements and testing for biological evaluation (EN 455-3:2023)

HRN EN ISO 10555-1:2023 en pr  
Intravaskularni kateteri – Sterilni i jednokratni kateteri – 1. dio: Opći zahtjevi (ISO 10555-1:2023; EN ISO 10555-1:2023)  
Intravascular catheters – Sterile and single-use catheters – Part 1: General requirements (ISO 10555-1:2023; EN ISO 10555-1:2023)

HRN EN ISO 10555-4:2023 en pr  
Intravaskularni kateteri – Sterilni i jednokratni kateteri – 4. dio: Dilatacijski balonski kateteri (ISO 10555-4:2023; EN ISO 10555-4:2023)  
Intravascular catheters – Sterile and single-use catheters – Part 4: Balloon dilatation catheters (ISO 10555-4:2023; EN ISO 10555-4:2023)

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

HRN EN 2882:2023 en pr  
Zrakoplovstvo – Matice, šesterokutne, samozatvarajuće, s upustom i neskidajućom podloškom, od čelika, prevučene kadmijem, podmazane s MoS2 – Klasifikacija: 1100 MPa (pri temperaturi okoline)/235 °C (EN 2882:2023)  
Aerospace series – Nuts, hexagonal, self-locking, with counterbore and captive washer, in steel, cadmium plated, MoS2 lubricated – Classification: 1 100 MPa (at ambient temperature)/235 °C (EN 2882:2023)

HRN EN 2995-001:2023 en pr  
Zrakoplovstvo – Automatski osigurači, jednopolni, temperaturno kompenzirani, nazivne struje 1 A do 25 A – Dio 001: Tehnička specifikacija (EN 2995-001:2023)  
Aerospace series – Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A – Part 001: Technical specification (EN 2995-001:2023)



HRN EN 4881:2023 en pr  
Zrakoplovstvo – Mikro lučna oksidacija aluminija i legura aluminija (EN 4881:2023)  
Aerospace series – Micro-arc oxidation of aluminium and aluminium alloys (EN 4881:2023)

HRN EN 9103:2023 en pr  
Zrakoplovstvo – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama (EN 9103:2023)  
Aerospace series – Quality management systems – Variation management of key characteristics (EN 9103:2023)

HRN EN 9104-3:2023 en pr  
Zrakoplovstvo – Sustavi upravljanja kvalitetom – Dio 003: Zahtjevi za obuku, razvoj, osposobljenost i autentifikaciju auditora za zrakoplovstvo, svemir i obranu (EN 9104-3:2023)  
Aerospace series – Quality management systems – Part 003: Requirements for Aviation, Space, and Defence Auditor Training, Development, Competence, and Authentication (EN 9104-3:2023)

HRN EN 16603-20:2023 en pr  
Svemirsko inženjerstvo – Elektrotehnika i elektronika (EN 16603-20:2023)  
Space engineering – Electrical and electronic (EN 16603-20:2023)

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

HRN EN IEC 60512-99-003:2023 en pr  
Konektori za električnu i elektroničku opremu – Ispitivanja i mjerenja – Dio 99-003: Rasporedi ispitivanja izdržljivosti – Ispitivanje 99c: Raspored ispitivanja za simetrične jednostruke konektore za odvajanje pod električnim opterećenjem (IEC 60512-99-003:2023; EN IEC 60512-99-003:2023)  
Connectors for electrical and electronic equipment – Tests and measurements – Part 99-003: Endurance test schedules – Test 99c: Test schedule for balanced single-pair connectors separating (unmating) under electrical load (IEC 60512-99-003:2023; EN IEC 60512-99-003:2023)

HRN EN IEC 61753-021-02:2023 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbena norma – Dio 021-02: Jednomodni svjetlovodni konektori povezani kao pletenice i vrpce za kategoriju C – Kontrolirano okruženje (IEC 61753-021-02:2023; EN IEC 61753-021-02:2023)  
Fibre optic interconnecting devices and passive components – Performance standard – Part 021-02: Single-mode fibre optic connectors terminated as pigtailed and patchcords for category C – Controlled environment (IEC 61753-021-02:2023; EN IEC 61753-021-02:2023)

HRN EN IEC 61753-021-06:2023 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbena norma – Dio 021-06: Jednomodni svjetlovodni konektori povezani kao pletenice i vrpce za kategoriju OP+ – Prošireno vanjsko zaštićeno okruženje (IEC 61753-021-06:2023; EN IEC 61753-021-06:2023)  
Fibre optic interconnecting devices and passive components – Performance standard – Part 021-06: Single-mode fibre optic connectors terminated as pigtailed and patchcords for category OP+ – Extended outdoor protected environment (IEC 61753-021-06:2023; EN IEC 61753-021-06:2023)

HRN EN IEC 63203-401-1:2023 en pr  
Nosivi elektronički uređaji i tehnologije – Dio 401-1: Proizvodi i sustavi – Funkcionalni elementi – Metode ocjenjivanja rastezljivih senzora otpora (IEC 63203-401-1:2023; EN IEC 63203-401-1:2023)  
Wearable electronic devices and technologies – Part 401-1: Devices and Systems – Functional elements – Evaluation method of the stretchable resistive strain sensor (IEC 63203-401-1:2023; EN IEC 63203-401-1:2023)

HRN EN IEC 63215-2:2023 en pr  
Metode ispitivanja izdržljivosti materijala za spajanje čipova – 2. dio: Metoda ispitivanja toplinskim ciklusima za materijale za spajanje čipova koja se primjenjuje na diskretne elektroničke uređaje (IEC 63215-2:2023; EN IEC 63215-2:2023)  
Endurance test methods for die attach materials – Part 2: Temperature cycling test method for die attach materials applied to discrete type power electronic devices (IEC 63215-2:2023; EN IEC 63215-2:2023)

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

HRN EN IEC 60704-2-13:2023 en pr  
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – Dio 2-13: Posebni zahtjevi za uređaje za izvlačenje para od kuhanja (IEC 60704-2-13:2023; EN IEC 60704-2-13:2023)  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-13: Particular requirements for cooking fume extractors (IEC 60704-2-13:2023; EN IEC 60704-2-13:2023)

HRN EN IEC 61820-3-2:2023 en pr  
Električne instalacije za osvjtljavanje i označavanje uzletišta – Dio 3-2: Zahtjevi za izvore napajanja – Posebni zahtjevi za serijske strujne krugove (IEC 61820-3-2:2023; EN IEC 61820-3-2:2023)  
Electrical installations for lighting and beaconing of aerodromes – Part 3-2: Requirements for power supplies – Particular requirements for series circuits (IEC 61820-3-2:2023; EN IEC 61820-3-2:2023)

HRN EN IEC 62282-4-202:2023 en pr  
Tehnologija gorivih ćelija – Dio 4-202: Sustavi gorivih ćelija za pogon i pomoćne jedinice za napajanje – Bespilotne letjelice – Metode ispitivanja značajki (IEC 62282-4-202:2023; EN IEC 62282-4-202:2023)  
Fuel cell technologies – Part 4-202: Fuel cell power systems for propulsion and auxiliary power units – Unmanned aircrafts – Performance test methods (IEC 62282-4-202:2023; EN IEC 62282-4-202:2023)

## 1.2 Nacrti hrvatskih norma

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o nacrtima hrvatskih norma (oznaka nHRN). Pisane primjedbe na nacrt hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrt hrvatske norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo) odnosno putem Sustava komentiranja nacrt norma – HZNacrti, na poveznici <http://hznlive.67bricks.com/>.

Nacrti su hrvatskih norma zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb te u sustavu HZNacrti.

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

nHRN EN 50341-2-XX hr izv  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-XX: Nacionalni normativni aspekti (NNA) za Hrvatsku (na temelju EN 50341-1:2012)  
Overhead electrical lines exceeding AC 1 kV – Part 2-XX: National Normative Aspects (NNA) for Croatia (based on EN 50341-1:2012)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

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

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

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

prEN 13016-3 en  
Liquid petroleum products – Vapour pressure – Part 3: Determination of vapour pressure and calculated dry vapour pressure equivalent (DVPE) (Triple expansion method)  
Tekući naftni proizvodi – Tlak para – 3. dio: Određivanje tlaka para i izračunavanje tlaka para ugljikovodika u suhom zraku (DVPE) (Metoda trostruke ekspanzije)

### HZN/TO 34, *Poljoprivredni i prehrambeni proizvodi*

prEN ISO 712-2 en  
Cereals and cereal products – Determination of moisture content – Part 2: Automatic drying oven method (ISO/DIS 712-2:2023)  
Žitarice i proizvodi od žitarica – Određivanje količine vode – 2. dio: Metoda automatskog sušenja u peći (ISO/DIS 712-2:2023)

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

prEN ISO 17635 en  
Non-destructive testing of welds – General rules for metallic materials (ISO/DIS 17635:2023)  
Nerazorno ispitivanje zavara – Opća pravila za metalne materijale (ISO/DIS 17635:2023)

### HZN/TO 71, *Beton*

prEN 12390-4 en  
Testing hardened concrete – Part 4: Compressive strength – Specification for testing machines  
Ispitivanje očvrsloga betona – 4. dio: Tlačna čvrstoća – Specifikacija uređaja za ispitivanje

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

prEN 17066-2 en  
Insulated means of transport for temperature sensitive goods – Requirements and testing – Part 2: Equipment  
Transportna sredstva s izoliranim prostorom za temperaturno osjetljivu robu – Zahtjevi i ispitivanja – 2. dio: Oprema

### HZN/TO 92, *Zaštita od požara*

prEN 1366-15 en  
Fire resistance tests for service installations – Part 15: 1-, 2-, 3- sided ducts

### HZN/TO 120, *Koža i obuća*

prEN ISO 2419 en  
Leather – Physical and mechanical tests – Specimen and test piece conditioning (ISO/DIS 2419:2023)

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

prEN ISO 7396-3 en  
Medical gas pipeline systems – Part 3: Proportioning units for the production of synthetic medical air (ISO/DIS 7396-3:2023)  
Cjevovodni sustavi za medicinske plinove – 3. dio: Dozatori za proizvodnju sintetskog medicinskog zraka (ISO/DIS 7396-3:2023)

prEN ISO 15002 en  
Flow control devices for connection to a medical gas supply system (ISO 15002:2023)  
Regulatori protoka koji se priključuju na sustav dovoda medicinskog plina (ISO 15002:2023)

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

- prEN ISO 18563-2 en  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 2: Array probes (ISO/DIS 18563-2:2023)  
Nerazorna ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 2. dio: Mrežne sonde (ISO/DIS 18563-2:2023)

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

- ISO 4427-2:2019/Amd 1:2023 en  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi
- ISO 4437-4:2022 en  
Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 4: Valves  
Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 4. dio: Ventili
- ISO/TR 10358:2021 en  
Plastics pipes and fittings for industrial applications – Collection of data on combined chemical-resistance  
Plastične cijevi i spojnice za industrijske primjene – Prikupljanje podataka o kombiniranoj kemijskoj otpornosti

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

- prEN 16339 en  
Ambient air – Method for the determination of the concentration of nitrogen dioxide by diffusive sampling  
Vanjski zrak – Metoda za određivanje koncentracije dušikovog dioksida difuznim uzorkovanjem

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

- prEN ISO 16094-2 en  
Water quality – Analysis of microplastic in water – Part 2: Vibrational spectroscopy methods for waters with low content of suspended solids including drinking water (ISO/DIS 16094-2:2023)

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

- prEN ISO 11979-2 en  
Ophthalmic implants – Intraocular lenses – Part 2: Optical properties and test methods (ISO/DIS 11979-2:2023)  
Oftalmološki implantanti – Intraokularne leće – 2. dio: Optička svojstva i metode ispitivanja (ISO/DIS 11979-2:2023)

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

- prEN ISO 8100-1 en  
Lifts for the transport of persons and goods – Part 1: Safety rules for the construction and installation of passenger and goods passenger lifts (ISO/DIS 8100-1:2023)
- prEN ISO 8100-2 en  
Lifts for the transport of persons and goods – Part 2: Design rules, calculations, examinations and tests of lift components (ISO/DIS 8100-2:2023)

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

- prEN 603-2 en  
Aluminium and aluminium alloys – Wrought forging stock – Part 2: Mechanical properties
- prEN 10265 en  
Magnetics materials – Specification for electrical steel strip and sheet with specified mechanical properties and magnetic polarisation
- prEN ISO 10714 en  
Steel and iron – Determination of phosphorus content – Phosphovanadomolybdate spectrophotometric method (ISO/DIS 10714:2023)  
Čelik i željezo – Određivanje sadržaja fosfora – Fosfovanadijmolibdatna spektrofotometrijska metoda (ISO/DIS 10714:2023)
- prEN 18035 en  
Prestressing steels – Waxed and sheathed strands for construction applications

## **HZN/TO 516, Usluge prijevoza**

- prEN 12522 en  
Furniture removal activities – Furniture removal for private individuals – Service specification

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

- prEN 17184 en  
Intelligent transport systems – eSafety – eCall High level application protocols (HLAP) using IP Multimedia Subsystem (IMS) over packet switched networks
- prEN ISO 21177 en  
Intelligent transport systems – ITS station security services for secure session establishment and authentication between trusted devices (ISO/FDIS 21177:2023)  
Inteligentni transportni sustavi – Sigurnosne usluge ITS stanice za sigurno uspostavljanje sesije i provjeru autentičnosti između pouzdanih uređaja (ISO/FDIS 21177:2023)

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

- prEN 15220 en  
Railway applications – Brake indicators  
Željeznički sustav – Pokazivači kočnice
- prEN ISO 22074-1 en  
Railway infrastructure – Rail fastening systems – Part 1: Vocabulary (ISO 22074-1:2020)
- prEN ISO 22074-2 en  
Railway infrastructure – Rail fastening systems – Part 2: Test method for longitudinal rail restraint (ISO 22074-2:2021)
- prEN ISO 22074-3 en  
Railway infrastructure – Rail fastening systems – Part 3: Proof load test method for pull-out resistance (ISO 22074-3:2021)
- prEN ISO 22074-4 en  
Railway infrastructure – Rail fastening systems – Part 4: Test methods for resistance to repeated loading (ISO 22074-4:2022)
- prEN ISO 22074-5 en  
Railway infrastructure – Rail fastening systems – Part 5: Test method for electrical resistance (ISO 22074-5:2021)
- prEN ISO 22074-6 en  
Railway infrastructure – Rail fastening systems – Part 6: Test method for resistance to severe environmental conditions (ISO 22074-6:2021)
- prEN ISO 22074-7 en  
Railway infrastructure – Rail fastening systems – Part 7: Test method for clamping force and uplift stiffness (ISO 22074-7:2021)
- prEN ISO 22074-8 en  
Railway infrastructure – Rail fastening systems – Part 8: Test method for vertical stiffness (ISO 22074-8:2022)

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

- prEN ISO 4892-3 en  
Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps (ISO/DIS 4892-3:2023)  
Plastika – Metode izlaganja izvorima svjetla u laboratoriju – 3. dio. Fluorescentne UV-svjetiljke (ISO/DIS 4892-3:2023)
- FprCEN/TR 16862 en  
Plastics welding supervisor – Task, responsibilities, knowledge, skills and competence  
Nadzornik zavarivanja plastike – Zadatak, odgovornosti, znanja, vještine i nadležnost

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

- EN 17272:2020/prA1 en  
Chemical disinfectants and antiseptics – Methods of airborne room disinfection by automated process – Determination of bactericidal, mycobactericidal, sporicidal, fungicidal, yeasticidal, virucidal and phagocidal activities  
Kemijski dezinficijensi i antiseptici – Metode dezinfekcije prostorija zrakom automatskim procesima – Određivanje bakterijske, mikobakterijske, sporične, fungicidne, djelotvornosti na kvasce, virucidne i fagocidne djelotvornosti

FprEN 17430 en

Chemical disinfectants and antiseptics – Hygienic handrub virucidal – Test method and requirements (phase 2/step 2)  
Kemijski dezinficijensi i antiseptici – Sredstvo za higijensko utrljavanje u ruke s virucidnim djelovanjem – Metoda ispitivanja i zahtjevi (faza 2/korak 2)

## HZN/TO 544, *Strojni elementi*

prEN ISO 3506-3 en

Fasteners – Mechanical properties of corrosion resistant stainless steel fasteners – Part 3: Set screws (and similar fasteners not under tensile stress) with specified grades and hardness classes (ISO/DIS 3506-3:2023)

Spojni elementi – Mehanička svojstva spojnih elemenata izrađenih od nehrđajućih čelika – 3. dio: Zatični vijci (i slični spojni elementi koji nisu vlačno napregnuti) s utvrđenom vrstom i razredom čelika i razredom tvrdoće (ISO/DIS 3506-3:2023)

prEN ISO 3506-4 en

Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws with specified grades and hardness classes (ISO/DIS 3506-4:2023)

Spojni elementi – Mehanička svojstva spojnih elemenata izrađenih od nehrđajućih čelika – 4. dio: Samonarezni vijci s utvrđenom vrstom i razredom čelika i razredom tvrdoće (ISO/DIS 3506-4:2023)

prEN ISO 8739 en

Fasteners – Parallel grooved pins, with pilot point – Full-length diamond grooves (ISO/DIS 8739:2023)

prEN ISO 8740 en

Fasteners – Parallel grooved pins, with chamfer point – Full-length diamond grooves (ISO/DIS 8740:2023)

prEN ISO 8741 en

Fasteners – Reverse-taper grooved pins – Half-length progressive grooves (ISO/DIS 8741:2023)

prEN ISO 8742 en

Fasteners – Grooved pins – One-third-length center grooves (ISO/DIS 8742:2023)

prEN ISO 8743 en

Fasteners – Grooved pins – Half-length center grooves (ISO/DIS 8743:2023)

prEN ISO 8744 en

Fasteners – Taper grooved pins – Full-length progressive grooves (ISO/DIS 8744:2023)

prEN ISO 8745 en

Fasteners – Taper grooved pins – Half-length progressive grooves (ISO/DIS 8745:2023)

prEN ISO 8746 en

Fasteners – Grooved pins with round head – Full-length diamond grooves (ISO/DIS 8746:2023)

prEN ISO 8747 en

Fasteners – Grooved pins with countersunk head – Full-length diamond grooves (ISO/DIS 8747:2023)

prEN ISO 13669 en

Fasteners – Grooved pins – General requirements (ISO/DIS 13669:2023)

Spojni elementi – Zasječeni zatici – Opći zahtjevi (ISO/DIS 13669:2023)

prEN ISO 13670 en

Fasteners – Reverse-taper grooved pins – One quarter-length progressive grooves on both sides (ISO/DIS 13670:2023)

prEN ISO 13672 en

Fasteners – Parallel grooved pins – Half-length diamond grooves (ISO/DIS 13672:2023)

## HZN/TO 551, *Gradnja*

prEN ISO 19650-6 en

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 6: Health and safety information (ISO/DIS 19650-6:2023)

Organizacija i digitalizacija informacija o zgradama i inženjerskim građevinama uključujući modeliranje informacija o građevinama (BIM) – Upravljanje informacijama modeliranjem informacija o građevinama – 6. dio: Informacije o zdravlju i sigurnosti (ISO/DIS 19650-6:2023)

## HZN/TO 560, *Tekstilni proizvodi*

prEN 17131-2 en

Textiles and textile products – Determination of certain residual solvents – Part 2: Determination of benzene, method using headspace gas chromatography

prEN 17681-1 en

Textiles and textile products – Per- and polyfluoroalkyl substances (PFAS) – Part 1: Analysis of an alkaline extract using liquid chromatography and tandem mass spectrometry

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

prEN 17533 en

Gaseous hydrogen – Cylinders and tubes for stationary storage  
Plinoviti vodik – Boce i cilindrični spremnici za stacionarno skladištenje

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

prEN ISO 6909 en

Machine tools Safety – Press brakes (ISO/DIS 6909:2023)

prEN ISO 11148-13 en

Hand-held non-electric power tools – Safety requirements – Part 13: Fastener driving tools (ISO/DIS 11148-13)  
Ručni neelektrični alati – Sigurnosni zahtjevi – 13. dio: Alati za pričvršćivanje (ISO/DIS 11148-13)

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

prEN ISO 11781 en

Molecular biomarker analysis – General guidelines for single-laboratory validation of qualitative real-time PCR methods (ISO/DIS 11781:2023)

Analiza molekularnih biomarkera – Opće smjernice za validaciju kvalitativnih metoda PCR u realnom vremenu u jednom laboratoriju (ISO/DIS 11781:2023)

prEN 18033 en

Food authenticity – Quantitation of equine DNA relative to mammalian DNA in raw beef (meat)  
Kvantifikacija DNK konja u odnosu na DNK sisavaca u sirovoj govedini

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

prEN ISO 20957-1 en

Stationary training equipment – Part 1: General safety requirements and test methods (ISO/DIS 20957-1:2023)  
Oprema za vježbanje – 1. dio: Opći sigurnosni zahtjevi i metode ispitivanja (ISO/DIS 20957-1:2023)

## HZN/TO 578, *Elektronička javna nabava*

prEN 17017-1 en

Electronic Public Procurement – Fulfilment – Part 1: Choreographies

## HZN/TO 582, *Informacijska sigurnost i upravljanje kontinuitetom poslovanja*

prEN 18037 en

Guidelines on a sectoral cybersecurity assessment

prEN ISO 22360 en

Security and resilience – Crisis management – Concept, principles and framework (ISO/DIS 22360:2023)

## HZN/TO 583, *Sustavi bespilotnih zrakoplova*

prEN 4709-007 en

Aerospace series – Unmanned Aircraft Systems – Part 007: General product requirements for UAS of classes C5 and C6

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

prEN IEC 61373:2023 en

Railway applications – Rolling stock equipment – Shock and vibration tests (IEC 61373 ED3)  
Željeznički sustav – Oprema za željeznička vozila – Ispitivanja na udare i vibracije (IEC 61373 ED3)

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

EN IEC 60947-1:2021/prAA:2023 en  
Low-voltage switchgear and controlgear – Part 1: General rules  
Niskonaponska sklopna aparatura – 1. dio: Opća pravila

FprEN IEC 63404:2023 en  
Switchgear and controlgear and their assemblies for low voltage – Integration method of radiocommunication device into an equipments (IEC 63404 ED1)

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

prEN IEC 63356-2:2023 en  
LED light source characteristics – Part 2: Design parameters and values (IEC 63356-2 ED2)  
Značajke izvora svjetla sa svjetlećim diodama – 2. dio: Parametri i vrijednosti za projektiranje (IEC 63356-2 ED2)

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

prEN IEC 62198:2023 en  
Managing risk in projects – Application guidelines (IEC 62198 ED3)  
Upravljanje rizicima u projektima – Upute za primjenu (IEC 62198 ED3)

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

prEN IEC 60601-2-91:2023 en  
Particular requirement for basic safety and essential performance of non-thermal plasma wound treatment equipment (IEC 60601-2-91 ED1)

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

prEN IEC 61784-3-19:2023 en  
Industrial communication networks – Profiles – Part 3-19: Functional safety fieldbuses – Additional specifications for CPF 19 (IEC 61784-3-19 ED1)

## **HZN/TO E81, Zaštita od munje**

FprEN IEC 62561-7:2023 en  
Lightning protection system components (LPSC) – Part 7: Requirements for earthing enhancing compounds (IEC 62561-7 ED3)  
Komponente sustava zaštite od munje (LPSC) – 7. dio: Zahtjevi za smjese za poboljšanje uzemljenja (IEC 62561-7 ED3)

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

prEN IEC 62127-2:2023 en  
Ultrasonics – Hydrophones – Part 2: Calibration for ultrasonic fields (IEC 62127-2 ED2)  
Ultrazvuk – Hidrofoni – 2. dio: Umjeravanje za ultrazvučna polja (IEC 62127-2 ED2)

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

Draft EN 300 338-6 V1.3.0:2023 en  
Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service – Part 6: Class M DSC  
Tehničke značajke i metode mjerenja opreme za generiranje, odašiljanje i prijam digitalnog selektivnog poziva (DSC) u pomorskoj MF, MF/HF i/ili VHF pokretnoj službi – 6. dio: DCS klase M

## **HZN/TO Z1, Informacijska tehnologija**

prEN ISO/IEC 15421 en  
Information technology – Automatic identification and data capture techniques – Bar code master test specifications (ISO/IEC 15421:2010)  
Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacije za provjeru izvornika crtičnoga koda (ISO/IEC 15421:2010)

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

prEN 18027 en  
Bio-based products – Life cycle assessment – Additional requirements and guidelines for comparing the life cycles of bio-based products with their fossil-based equivalents  
Proizvodi na biološkoj osnovi – Procjena životnog ciklusa – Dodatni zahtjevi i smjernice za usporedbu životnog ciklusa proizvoda na biološkoj osnovi s ekvivalentnim proizvodima na fosilnoj osnovi

prEN 18034 en  
Algae and algae products – Methods of sampling and analysis – Determination of chlorophyll a content  
Alge i proizvodi na bazi algi – Metode uzorkovanja i analize – Određivanje sadržaja klorofila a

prEN ISO/ASTM 52909 en  
Additive manufacturing of metals – Finished part properties – Orientation and location dependence of mechanical properties for metal parts (ISO/ASTM FDIS 52909:2023)  
Aditivna proizvodnja metala – Svojstva gotovih dijelova – Ovisnost mehaničkih svojstava metalnih dijelova o orijentaciji i mjestu (ISO/ASTM FDIS 52909:2023)

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

prEN ISO 20553 en  
Radiation protection – Monitoring of workers occupationally exposed to a risk of internal contamination with radioactive material (ISO/DIS 20553:2023)  
Zaštita od zračenja – Praćenje radnika koji su profesionalno izloženi riziku od unutrašnje kontaminacije radioaktivnim materijalom (ISO/DIS 20553:2023)

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

prEN 17189 en  
Materials obtained from end of life tyres (ELT) – Determination of the true density of granulates and powders – Method based on water pycnometry

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

prEN ISO 10394 en  
Dentistry – Designation system for supernumerary teeth (ISO 10394:2023)  
Stomatologija – Sustav označavanja prekobrojnih zuba (ISO 10394:2023)

prEN ISO 13402 en  
Surgical and dental hand instruments – Determination of resistance against autoclaving, corrosion and thermal exposure (ISO/DIS 13402:2023)  
Kirurški i stomatološki ručni instrumenti – Određivanje otpornosti na autoklaviranje, koroziju i izlaganje toplini (ISO/DIS 13402:2023)

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

prEN 2285 en  
Aerospace series – Bush, plain, aluminium alloy, with self-lubricating liner – Dimensions and loads  
Zrakoplovstvo – Čahure izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja

prEN 2286 en  
Aerospace series – Bush, flanged aluminium alloy, with self-lubricating liner – Dimensions and loads  
Zrakoplovstvo – Čahure s prirubnicom izrađene od legura aluminija sa samopodmazujućom površinom – Dimenzije i opterećenja

prEN 3155-009 en  
Aerospace Series – Electrical contacts used in elements of connection – Part 009: Contacts, electrical, female, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 009: Kontakti, električni, ženski, tip A, za krimpiranje, razreda S – Norma za proizvod

prEN 3155-017 en  
Aerospace series – Electrical contacts used in elements of connection – Part 017: Contacts, electrical, relay base, female, type A, crimp, class P – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 017: Kontakti, električni, relejna osnova, ženski, tip A, za krimpiranje, razreda P – Norma za proizvod

prEN 3155-044 en  
Aerospace series – Electrical contacts used in elements of connection – Part 044: Contacts, electrical, male 044, type A, double crimping, class T – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 044: Kontakti, električni, muški 044, tip A, dvostruko krimpiani, klasa T – Norma za proizvod

prEN 3155-045 en  
Aerospace series – Electrical contacts used in elements of connection – Part 045: Contacts, electrical, female, type A, double crimping, class T – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 045: Kontakti, električni, ženski, tip A, dvostruko krimpiani, klasa T – Norma za proizvod

prEN 3475-807 en  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 807: Transfer impedance  
Zrakoplovstvo – Električni kabeli za upotrebu u zrakoplovstvu – Metode ispitivanja – 807. dio: Otpor prijenosa

prEN 4733-001 en  
Aerospace series – Rectangular optical connector, modular – Operating temperature 125 °C, for EN 4734 10X: MT contacts – Part 001: Technical specification

prEN 4733-002 en  
Aerospace series – Rectangular optical connector, modular – Operating temperature 125 °C, for EN 4734 10X: MT contacts – Part 002: Performance specification

prEN 4733-003 en  
Aerospace series – Rectangular optical connector, modular – Operating temperature 125 °C, for EN 4734 10X: MT contacts – Part 003: Module double MT contacts, series 2 – Product standard

prEN 4734-101 en  
Aerospace series – Mechanical transfer contact, fibre optic contact Multi connectors – Part 101: MT male contact 12 ways – Technical specification

prEN 4734-102 en  
Aerospace series – Mechanical transfer contact, fibre optic contact Multi connectors – Part 102: MT female contact 12 ways – Technical specification

## HZN/TU U1, Opća elektrotehnika 1

prEN IEC 60068-2-87:2023 en  
Environmental testing – Part 2-87: Tests-test xx: UV-c Exposure of materials and components to simulate ultraviolet germicidal irradiation or other applications (IEC 60068-2-87 ED1)  
Ispitivanje utjecaja okoliša – Dio 2-87: Ispitivanja – xx ispitivanje: Izlaganje materijala i komponenti UV-C zrakama radi simulacije ultraljubičastog germicidnog zračenja ili u druge svrhe (IEC 60068-2-87 ED1)

prEN IEC 60721-2-2:2023 en  
Classification of environmental conditions – Part 2-2: Environmental conditions appearing in nature – Precipitation and wind (IEC 60721-2-2 ED3)  
Razredba uvjeta okoliša – Dio 2-2: Uvjeti okoliša koji se pojavljuju u prirodi – Oborine i vjetar (IEC 60721-2-2 ED3)

prEN IEC 60721-2-5:2023 en  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Section 5: Dust, sand, salt mist (IEC 60721-2-5 ED2)  
Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – 5. odjeljak: Prašina, pijesak, slana magla (IEC 60721-2-5 ED2)

## HZN/TU V1, Elektronika 1

prEN IEC 60794-1-208:2023 en  
Optical fibre cables – Part 1-208: Generic specification – Basic optical cable test procedures – Environmental test methods – Pneumatic resistance, method F8 (IEC 60794-1-208 ED1)

prEN IEC 61340-4-11:2023 en  
Electrostatics – Part 4-11: Standard test methods for specific applications – Testing of electrostatic properties of composite IBC (IEC 61340-4-11 ED1)

EN IEC 61340-6-1:2018/prA1:2023 en  
Electrostatics – Part 6-1: Electrostatic control for healthcare – General requirements for facilities (IEC 61340-6-1/am1 ED1)  
Elektrostatika – Dio 6-1: Kontrola elektrostatike u području zdravstva – Opći zahtjevi za objekte (IEC 61340-6-1/am1 ED1)

## HZN/TU W1, Energetska elektrotehnika 1

prEN 50730 en  
Professional and commercial coffee machines – Methods for measuring energy consumption and productivity

EN IEC 60127-8:2018/prA1:2023 en  
Miniature fuses – Part 8: Fuse resistors with particular overcurrent protection (IEC 60127-8/am1 ED1)

prEN IEC 60705:2023 en  
Household microwave ovens – Methods for measuring performance (IEC 60705 ED5)  
Kućanske mikrovalne pećnice – Ispitne metode za mjerenje radnih značajka (IEC 60705 ED5)

EN 61427-2:2015/FprA1:2023 en  
Secondary cells and batteries for renewable energy storage – General requirements and methods of test – Part 2: On-grid applications (IEC 61427-2/am1 ED1)  
Sekundarni članci i baterije za obnovljivu pohranu energije – Opći zahtjevi i metode ispitivanja – 2. dio: Primjena u mreži (IEC 61427-2/am1 ED1)

prEN IEC 62282-3-201:2023 en  
Fuel cell technologies – Part 3-201: Stationary fuel cell power systems – Performance test methods for small fuel cell power systems (IEC 62282-3-201 ED3)  
Tehnologija gorivih ćelija – Dio 3-201: Energetski sustavi stacionarnih gorivih ćelija – Metode ispitivanja značajki za male energetske sustave gorivih ćelija (IEC 62282-3-201 ED3)

prEN IEC 63522-10:2023 en  
Electrical relays – Tests and measurements – Part 10: Heating (IEC 63522-10 ED1)

prEN IEC 63522-16:2023 en  
Electrical relays – Tests and measurements – Part 16: Soldering (IEC 63522-16 ED1)

prEN IEC 63522-56:2023 en  
Electrical relays – Tests and measurements – Part 56: Ball pressure test (IEC 63522-56 ED1)

## 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 5, *Metalne cijevi i priključci*

HRN EN 1092-2:2001 en  
Prirubnice i njihovi spojevi – Okrugle prirubnice za cijevi, armature, spojne dijelove i pribor, s PN oznakom – 2. dio: Lijevano-željezne prirubnice (EN 1092-2:1997)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 2: Cast iron flanges (EN 1092-2:1997)  
- zamijenjena s: HRN EN 1092-2:2023

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

HRN EN ISO 3104:2020 en  
Naftni proizvodi – Prozirne i neprozirne tekućine – Određivanje kinematičke viskoznosti i izračunavanje dinamičke viskoznosti (ISO 3104:2020; EN ISO 3104:2020)  
Petroleum products – Transparent and opaque liquids – Determination of kinematic viscosity and calculation of dynamic viscosity (ISO 3104:2020; EN ISO 3104:2020)  
- zamijenjena s: HRN EN ISO 3104:2023

### HZN/TO 37, *Terminologija*

HRN ISO 704:2010 en  
Terminološki rad – Načela i metode (ISO 704:2009)  
Terminology work – Principles and methods (ISO 704:2009)  
- zamijenjena s: HRN ISO 704:2023

HRN ISO 12199:2010 en  
Abecedni redoslijed višezjezičnih terminoloških i leksikografskih podataka prikazanih latiničnom abecedom (ISO 12199:2000)  
Alphabetical ordering of multilingual terminological and lexicographical data represented in the Latin alphabet (ISO 12199:2000)  
- zamijenjena s: HRN ISO 12199:2023

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

HRN EN ISO 14919:2015 en  
Toplinsko naštrcavanje – Žice, šipke i pletena žica za naštrcavanje pomoću plinskoga plamena i električnog luka – Razredba, tehnički uvjeti isporuke (ISO 14919:2015; EN ISO 14919:2015)  
Thermal spraying – Wires, rods and cords for flame and arc spraying – Classification; Technical supply conditions (ISO 14919:2015; EN ISO 14919:2015)  
- zamijenjena s: HRN EN ISO 14919:2023

HRN EN ISO 15614-13:2021 en  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 13. dio: Sučeljeno elektrootporno zavarivanje pritiskom i zavarivanje iskrenjem (ISO 15614-13:2021; EN ISO 15614-13:2021)  
Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 13: Upset (resistance butt) and flash welding (ISO 15614-13:2021; EN ISO 15614-13:2021)  
- zamijenjena s: HRN EN ISO 15614-13:2023

HRN EN ISO 18279:2004 en  
Tvrdo lemljenje – Nepravilnosti u tvrdo lemljenim spojevima (ISO 18279:2003; EN ISO 18279:2003)  
Brazing – Imperfections in brazed joints (ISO 18279:2003; EN ISO 18279:2003)  
- zamijenjena s: HRN EN ISO 18279:2023

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

HRN ISO 2789:2014 en  
Informacije i dokumentacija – Međunarodna knjižnična statistika (ISO 2789:2013)  
Information and documentation – International library statistics (ISO 2789:2013)  
- zamijenjena s: HRN ISO 2789:2023

HRN ISO 3297:2021 en  
Informacije i dokumentacija – Međunarodni standardni broj serijske publikacije (ISSN) (ISO 3297:2020)  
Information and documentation – International standard serial number (ISSN) (ISO 3297:2020)  
- zamijenjena s: HRN ISO 3297:2023

HRN ISO 15707:2005 en  
Informacije i dokumentacija – Međunarodni standardni kod za glazbena djela (ISWC) (ISO 15707:2001)  
Information and documentation – International Standards Musical Work Code (ISWC) (ISO 15707:2001)  
- zamijenjena s: HRN ISO 15707:2023

HRN ISO 26324:2017 en  
Informacije i dokumentacija – Sustav digitalnog identifikatora objekta (ISO 26324:2012)  
Information and documentation – Digital object identifier system (ISO 26324:2012)  
- zamijenjena s: HRN ISO 26324:2023

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

HRN ISO 3951-1:2016 en  
Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“ (ISO 3951-1:2013, ispravljena verzija 2016-12-15)  
Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL (ISO 3951-1:2013, Corrected version 2016-12-15)  
- zamijenjena s: HRN ISO 3951-1:2023

HRN ISO 10576-1:2012 en  
Statističke metode – Smjernice za vrednovanje usklađenosti s utvrđenim zahtjevima – 1. dio: Opća načela (ISO 10576-1:2003)  
Statistical methods – Guidelines for the evaluation of conformity with specified requirements – Part 1: General principles (ISO 10576-1:2003)  
- zamijenjena s: HRN ISO 10576:2023

### HZN/TO 71, *Beton*

HRN EN 12390-6:2010 en  
Ispitivanje očvrstloga betona – 6. dio: Vlačna čvrstoća cijepanjem ispitnih uzoraka (EN 12390-6:2009)  
Testing hardened concrete – Part 6: Tensile splitting strength of test specimens (EN 12390-6:2009)  
- zamijenjena s: HRN EN 12390-6:2023

### HZN/TO 120, *Koža i obuća*

HRN EN ISO 20137:2017 en  
Koža – Kemijska ispitivanja – Smjernice za ispitivanje štetnih kemikalija u koži (ISO 20137:2017; EN ISO 20137:2017)  
Leather – Chemical tests – Guidelines for testing critical chemicals in leather (ISO 20137:2017; EN ISO 20137:2017)  
- zamijenjena s: HRN EN ISO 20137:2023

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

HRN EN 794-3:2010 en  
Plućni respiratori – 3. dio: Posebni zahtjevi za prijenosne respiratore za hitne slučajeve (EN 794-3:1998+A2:2009)  
Lung ventilators – Part 3: Particular requirements for emergency and transport ventilators (EN 794-3:1998+A2:2009)  
- zamijenjena s: HRN EN ISO 80601-2-84:2023

HRN EN ISO 80601-2-12:2020 en  
Medicinska električna oprema – Dio 2-12: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke respiratora za intenzivnu njegu (ISO 80601-2-12:2020; EN ISO 80601-2-12:2020)  
Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators (ISO 80601-2-12:2020; EN ISO 80601-2-12:2020)  
- zamijenjena s: HRN EN ISO 80601-2-12:2023

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

HRN ISO 2834-2:2015 en  
Grafička tehnologija – Laboratorijska priprema probnih otisaka – 2. dio: Tekuće tiskarske boje (ISO 2834-2:2015)  
Graphic technology – Laboratory preparation test prints – Part 2: Liquid printing inks (ISO 2834-2:2015)  
- zamijenjena s: HRN ISO 2834-2:2023

HRN ISO 5776:2016 en  
Grafička tehnologija – Simboli za ispravljanje teksta probnog otiska (ISO 5776:2016)  
Graphic technology – Symbols for text proof correction (ISO 5776:2016)  
- zamijenjena s: HRN ISO 5776:2023

HRN ISO 12635:2014 en  
Grafička tehnologija – Ploče za ofsetni tisak – Dimenzije (ISO 12635:2008)  
Graphic technology – Plates for offset printing – Dimensions (ISO 12635:2008)  
- zamijenjena s: HRN ISO 12635:2023

HRN ISO 12640-3:2017 en  
Grafička tehnologija – Razmjena digitalnih podataka u grafičkoj pripremi – 3. dio: CIELAB standardni podaci za kolornu sliku (CIELAB/SCID) (ISO 12640-3:2007)  
Graphic technology – Prepress digital data exchange – Part 3: CIELAB standard colour image data (CIELAB/SCID) (ISO 12640-3:2007)  
- zamijenjena s: HRN ISO 12640-3:2023

HRN ISO 19445:2017 en  
Grafička tehnologija – Metapodaci za radne tokove (workflow) grafičkih ilustracija – XMP metapodaci za slike i probne otiske dokumenata (ISO 19445:2016)  
Graphic technology – Metadata for graphic arts workflow – XMP metadata for image and document proofing (ISO 19445:2016)  
- zamijenjena s: HRN ISO 19445:2023

HRN ISO 28178:2017 en  
Grafička tehnologija – Format razmjene kontrolnih podataka boja i procesa korištenjem XML ili ASCII teksta (ISO 28178:2009)  
Graphic technology – Exchange format for colour and process control data using XML or ASCII text (ISO 28178:2009)  
- zamijenjena s: HRN ISO 28178:2023

### **HZN/TO 136, Namještaj**

HRN EN 1022:2018 en  
Namještaj – Namještaj za sjedenje – Određivanje stabilnosti (EN 1022:2018)  
Furniture – Seating – Determination of stability (EN 1022:2018)  
- zamijenjena s: HRN EN 1022:2023

HRN EN 1725:2001 en  
Kućni namještaj – Kreveti i madraci – Sigurnosni zahtjevi i metode ispitivanja (EN 1725:1998)  
Domestic furniture – Beds and mattresses – Safety requirements and test methods (EN 1725:1998)  
- zamijenjena s: HRN EN 1725:2023

HRN EN 12521:2016 en  
Namještaj – Čvrstoća, trajnost i sigurnost – Zahtjevi za stolove za kućnu uporabu (EN 12521:2015)  
Furniture – Strength, durability and safety – Requirements for domestic tables (EN 12521:2015)  
- zamijenjena s: HRN EN 12521:2023

HRN EN 14434:2010 en  
Ploče za pisanje za obrazovne ustanove – Ergonomski, tehnički i sigurnosni zahtjevi i metode njihova ispitivanja (EN 14434:2010)  
Writing boards for educational institutions – Ergonomic, technical and safety requirements and their test methods (EN 14434:2010)  
- zamijenjena s: HRN EN 14434:2023

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

HRN ISO 17123-6:2014 en  
Optika i optički instrumenti – Terenski postupci za ispitivanje geodetskih instrumenata i instrumenata izmjere – 6. dio: Rotirajući laseri (ISO 17123-6:2012)  
Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 6: Rotating lasers (ISO 17123-6:2012)  
- zamijenjena s: HRN ISO 17123-6:2023

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

HRN EN ISO 21549-5:2016 en  
Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 5. dio: Identifikacijski podaci (ISO 21549-5:2015; EN ISO 21549-5:2016)  
Health informatics – Patient healthcard data – Part 5: Identification data (ISO 21549-5:2015; EN ISO 21549-5:2016)  
- zamijenjena s: HRN EN ISO 21549-5:2023

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

HRN EN ISO 9862:2005 en  
Geosintetici – Uzorkovanje i priprema ispitnih uzoraka (ISO 9862:2005; EN ISO 9862:2005)  
Geosynthetics – Sampling and preparation of test specimens (ISO 9862:2005; EN ISO 9862:2005)  
- zamijenjena s: HRN EN ISO 9862:2023

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

HRN EN 10278:2007 en  
Mjere i dopuštena odstupanja svijetlo vučenih čeličnih proizvoda (EN 10278:1999)  
Dimensions and tolerances of bright steel products (EN 10278:1999)  
- zamijenjena s: HRN EN 10278:2023

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

HRN EN ISO 19905-1:2016 en  
Industrija nafte i prirodnoga plina – Procjena specifičnosti lokacije za pokretne odobalne jedinice – 1. dio: Samopodizne platforme (ISO 19905-1:2016; EN ISO 19905-1:2016)  
Petroleum and natural gas industries – Site-specific assessment of mobile offshore units – Part 1: Jack-ups (ISO 19905-1:2016; EN ISO 19905-1:2016)  
- zamijenjena s: HRN EN ISO 19905-1:2023

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

HRN ISO 4359:2014 en  
Strukture za mjerenje protoka – Pravokutna, trapezoidna i U-oblikovana suženja toka (ISO 4359:2013)  
Flow measurement structures – Rectangular, trapezoidal and U-shaped flumes (ISO 4359:2013)  
- zamijenjena s: HRN ISO 4359:2023

HRN ISO 4359:2014/A1:2017 en  
Strukture za mjerenje protoka – Pravokutna, trapezoidna i U-oblikovana suženja toka (ISO 4359:2013/Amd 1:2017)  
Flow measurement structures – Rectangular, trapezoidal and U-shaped flumes (ISO 4359:2013/Amd 1:2017)  
- zamijenjena s: HRN ISO 4359:2023

HRN ISO 9277:2016 en  
Određivanje specifične površine krutine plinskom adsorpcijom – BET metoda (ISO 9277:2010)  
Determination of the specific surface area of solids by gas adsorption – BET method (ISO 9277:2010)  
- zamijenjena s: HRN ISO 9277:2023



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

HRN EN 12663-1:2015 en  
Željeznički sustav – Konstrukcijski zahtjevi za sanduk željezničkih vozila – 1. dio: Lokomotive i putnička željeznička vozila (i alternativna metoda za teretne vagone) (EN 12663-1:2010+A1:2014)  
Railway applications – Structural requirements of railway vehicle bodies – Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons) (EN 12663-1:2010+A1:2014)  
- zamijenjena s: HRN EN 12663-1:2023

HRN EN 13231-1:2013 en  
Željeznički sustav – Željeznički gornji ustroj – Preuzimanje radova – 1. dio: Radovi na kolosijeku sa zastorom – Otvorena pruga, skretnice i križišta (EN 13231-1:2013)  
Railway applications – Track – Acceptance of works – Part 1: Works on ballasted track – Plain line, switches and crossings (EN 13231-1:2013)  
- zamijenjena s: HRN EN 13231-1:2023

HRN EN 13749:2021 en  
Željeznički sustav – Osovinski sklopovi i okretna postolja – Metode definiranja zahtjeva za oblikovanje okvira okretnih postolja (EN 13749:2021)  
Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames (EN 13749:2021)  
- zamijenjena s: HRN EN 13749:2023

HRN EN 16235:2013 en  
Željeznički sustav – Ispitivanje prihvatljivosti vozničkih značajki željezničkih vozila – Teretni vagoni – Uvjeti za podjelu teretnih vagona s definiranim značajkama iz ispitivanja na kolosijeku prema EN 14363 (EN 16235:2013)  
Railway applications – Testing for the acceptance of running characteristics of railway vehicles – Freight wagons – Conditions for dispensation of freight wagons with defined characteristics from on-track tests according to EN 14363 (EN 16235:2013)  
- zamijenjena s: HRN EN 16235:2023

HRN EN 16286-2:2013 en  
Željeznički sustav – Prijelaznice između vozila – 2. dio: Mjerenje buke (EN 16286-2:2013)  
Railway applications – Gangway systems between vehicles – Part 2: Acoustic measurements (EN 16286-2:2013)  
- zamijenjena s: HRN EN 16286-2:2023

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

HRN EN ISO 4608:2008 en  
Plastika – Homopolimeri i kopolimeri vinil-klorida za opću uporabu – Određivanje apsorpcije omekšavala pri sobnoj temperaturi (ISO 4608:1998; EN ISO 4608:1998)  
Plastics – Homopolymer and copolymer resins of vinyl chloride for general use – Determination of plasticizer absorption at room temperature (ISO 4608:1998; EN ISO 4608:1998)  
- zamijenjena s: HRN EN ISO 4608:2023

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

HRN EN 16035:2012 en  
Lista svojstva okova (HPS) – Identifikacija i sažetak dokaza ispitivanja za omogućavanje međusobne izmjenjivosti građevnih okova za primjenu na vatrootpornim i/ili dimonepropusnim vratima i/ili prozorima koji se mogu otvarati (EN 16035:2012)  
Hardware performance sheet (HPS) – Identification and summary of test evidence to facilitate the inter-changeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows (EN 16035:2012)  
- zamijenjena s: HRN EN 16035:2023

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

HRN ISO 6707-2:2015 en  
Zgrade i inženjerske građevine – Terminološki rječnik – 2. dio: Nazivi koji se odnose na ugovaranje (ISO 6707-2:2014)  
Buildings and civil engineering works – Vocabulary – Part 2: Contract terms (ISO 6707-2:2014)  
- zamijenjena s: HRN ISO 6707-2:2023

HRN ISO 11527:2011 en  
Gradnja zgrada – Brtvila – Metoda ispitivanja za određivanje ljepljivosti (ISO 11527:2010)  
Building construction – Sealants – Test method for the determination of stringiness (ISO 11527:2010)  
- zamijenjena s: HRN ISO 11527:2023

HRN ISO 15686-5:2009 en  
Građevine – Planiranje uporabnog vijeka – 5. dio: Trošak životnog ciklusa (ISO 15686-5:2008)  
Buildings and constructed assets – Service-life planning – Part 5: Life-cycle costing (ISO 15686-5:2008)  
- zamijenjena s: HRN ISO 15686-5:2023

HRN ISO 16938-1:2009 en  
Gradnja zgrada – Određivanje zaprljanja poroznih podloga brtvilima upotrijebljenim u spojevima – 1. dio: Ispitivanje tlakom (ISO 16938-1:2008)  
Building construction – Determination of the staining of porous substrates by sealants used in joints – Part 1: Test with compression (ISO 16938-1:2008)  
- zamijenjena s: HRN ISO 16938-1:2023

HRN ISO 16938-2:2009 en  
Gradnja zgrada – Određivanje zaprljanja poroznih podloga brtvilima upotrijebljenim u spojevima – 2. dio: Ispitivanje bez tlaka (ISO 16938-2:2008)  
Building construction – Determination of the staining of porous substrates by sealants used in joints – Part 2: Test without compression (ISO 16938-2:2008)  
- zamijenjena s: HRN ISO 16938-2:2023

HRN ISO 19208:2017 en  
Okvir za specificiranje svojstava u zgradama (ISO 19208:2016)  
Framework for specifying performance in buildings (ISO 19208:2016)  
- bez zamjene

HRS ISO/TS 21929-2:2021 en  
Održivost pri gradnji zgrada – Pokazatelji održivosti – 2. dio: Okvir za razvoj pokazatelja za inženjerske građevine (ISO/TS 21929-2:2015)  
Sustainability in building construction – Sustainability indicators – Part 2: Framework for the development of indicators for civil engineering works (ISO/TS 21929-2:2015)  
- zamijenjena s: HRN ISO 21928-2:2023

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

HRN EN 13369:2018 en  
Opća pravila za predgotovljene betonske elemente (EN 13369:2018)  
Common rules for precast concrete products (EN 13369:2018)  
- zamijenjena s: HRN EN 13369:2023

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

HRN EN 12255-9:2005 en  
Uređaji za pročišćavanje otpadnih voda – 9. dio: Kontrola mirisa i ventilacija (EN 12255-9:2002)  
Wastewater treatment plants – Part 9: Odour control and ventilation (EN 12255-9:2002)  
- zamijenjena s: HRN EN 12255-9:2023

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

HRN EN ISO 10993-17:2010 en  
Biološka procjena medicinskih proizvoda – 17. dio: Utvrđivanje dopuštenih granica za tvari koje se mogu izluživati (ISO 10993-17:2002; EN ISO 10993-17:2009)  
Biological evaluation of medical devices – Part 17: Establishment of allowable limits for leachable substances (ISO 10993-17:2002; EN ISO 10993-17:2009)  
- zamijenjena s: HRN EN ISO 10993-17:2023

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

HRN EN 19:2016 en  
Industrijski zaporni uređaji – Označavanje zapornih uređaja od metala (EN 19:2016)  
Industrial valves – Marking of metallic valves (EN 19:2016)  
- zamijenjena s: HRN EN 19:2023

## HZN/TO 560, Tekstilni proizvodi

HRN EN ISO 9073-18:2008 en  
Tekstilije – Metode ispitivanja netkanog tekstila – 18. dio:  
Određivanje prekidne sile i istezanja netkanih materijala  
primjenom grab ispitivanja čvrstoće (ISO 9073-18:2007;  
EN ISO 9073-18:2008)  
Textiles – Test methods for nonwovens – Part 18: Determination  
of breaking strength and elongation of nonwoven  
materials using the grab tensile test (ISO 9073-18:2007;  
EN ISO 9073-18:2008)  
- zamijenjena s: HRN EN ISO 9073-18:2023

HRN ISO 9867:2011 en  
Tekstil – Vrednovanje oporavka tkanine nakon gužvanja  
– Metoda procjene izgleda (ISO 9867:2009)  
Textiles – Evaluation of the wrinkle recovery of fabrics  
– Appearance method (ISO 9867:2009)  
- zamijenjena s: HRN ISO 9867:2023

## HZN/TO 562, Alatni strojevi i alati

HRN EN 1417:2015 en  
Strojevi za gumu i plastiku – Dvovaljčana glodala – Sigurnosni  
zahtjevi (EN 1417:2014)  
Plastics and rubber machines – Two-roll mills – Safety  
requirements (EN 1417:2014)  
- zamijenjena s: HRN EN 1417:2023

## HZN/TO 563, Sigurnost strojeva

HRN EN 15518-3:2012 en  
Oprema za zimsko održavanje – Informatički sustav o  
vremenu na cestama – 3. dio: Zahtjevi za izmjerene vrijednosti  
nepomične opreme (EN 15518-3:2011)  
Winter maintenance equipment – Road weather information  
systems – Part 3: Requirements on measured values of  
stationary equipments (EN 15518-3:2011)  
- zamijenjena s: HRN EN 15518-3:2023

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

HRN EN ISO 7937:2005 en  
Mikrobiologija hrane i stočne hrane – Horizontalna metoda za  
brojenje Clostridium perfringens – Tehnika brojenja kolonija  
(ISO 7937:2004; EN ISO 7937:2004)  
Microbiology of food and animal feeding stuffs – Horizontal  
method for the enumeration of Clostridium perfringens  
– Colony-count technique (ISO 7937:2004; EN ISO 7937:2004)  
- zamijenjena s: HRN EN ISO 15213-2:2023

HRN EN ISO 17468:2016 en  
Mikrobiologija u lancu hrane – Tehnički zahtjevi i upute o  
uspostavljanju ili reviziji standardnih metoda (ISO 17468:2016;  
EN ISO 17468:2016)  
Microbiology of the food chain – Technical requirements and  
guidance on establishment or revision of a standardized  
reference method (ISO 17468:2016; EN ISO 17468:2016)  
- zamijenjena s: HRN EN ISO 17468:2023

## HZN/TO 569, Hrana za životinje

HRN ISO 5984:2004 en  
Hrana za životinje – Određivanje pepela (ISO 5984:2002)  
Animal feeding stuffs – Determination of crude ash  
(ISO 5984:2002)  
- zamijenjena s: HRN ISO 5984:2023

HRN ISO 5984:2004/Ispr.1:2016 en  
Hrana za životinje – Određivanje pepela – Tehnički ispravak 1  
(ISO 5984:2002/Cor 1:2005)  
Animal feeding stuffs – Determination of crude ash – Technical  
corrigendum 1 (ISO 5984:2002/Cor 1:2005)  
- zamijenjena s: HRN ISO 5984:2023

## HZN/TO 574, Sustavi upravljanja kvalitetom, rizicima, vrijednostima i inovacijama

HRN ISO 10008:2016 en  
Upravljanje kvalitetom – Zadovoljstvo kupca – Smjernice  
za elektroničke trgovinske transakcije za poslovanje s  
potrošačem (ISO 10008:2013)  
Quality management – Customer satisfaction – Guidelines  
for business-to-consumer electronic commerce transactions  
(ISO 10008:2013)  
- zamijenjena s: HRN ISO 10008:2023

HRI ISO/TR 31004:2014 en  
Upravljanje rizicima – Smjernice za primjenu ISO 31000  
(ISO/TR 31004:2013)  
Risk management – Guidance for the implementation of  
ISO 31000 (ISO/TR 31004:2013)  
- bez zamjene

## HZN/TU B1, Graditeljstvo 1

HRN EN 16687:2015 en,fr,de  
Građevni proizvodi – Procjena otpuštanja opasnih tvari  
– Nazivlje (EN 16687:2015)  
Construction products – Assessment of release of dangerous  
substances – Terminology (EN 16687:2015)  
- zamijenjena s: HRN EN 16687:2023

HRS CEN/TS 17195:2018 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Analiza anorganskih tvari u eluatima (CEN/TS 17195:2018)  
Construction products: Assessment of release of dangerous  
substances – Analysis of inorganic substances in eluates  
(CEN/TS 17195:2018)  
- zamijenjena s: HRN EN 17195:2023

HRS CEN/TS 17196:2018 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Digestija zlatotopkom za naknadnu analizu anorganskih  
tvari (CEN/TS 17196:2018)  
Construction products: Assessment of release of dangerous  
substances – Digestion by aqua regia for subsequent analysis  
of inorganic substances (CEN/TS 17196:2018)  
- zamijenjena s: HRN EN 17196:2023

HRS CEN/TS 17197:2019 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Analiza anorganskih tvari u produktima digestije i  
eluatima – Analiza optičkom emisijskom spektrometrijom  
s induktivno spregnutom plazmom (ICP-OES)  
(CEN/TS 17197:2018+AC:2018)  
Construction products: Assessment of release of  
dangerous substances – Analysis of inorganic substances  
in digests and eluates – Analysis by Inductively Coupled  
Plasma – Optical Emission Spectrometry (ICP-OES)  
(CEN/TS 17197:2018+AC:2018)  
- zamijenjena s: HRN EN 17197:2023

HRS CEN/TS 17200:2019 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Analiza makroelemenata, mikroelemenata i elemenata u  
tragovima u produktima digestije i eluatima spektrometrijom  
masa s induktivno spregnutom plazmom (ICP-MS)  
(CEN/TS 17200:2018+AC:2018)  
Construction products: Assessment of release of dangerous  
substances – Analysis of inorganic substances in digests and  
eluates – Analysis by Inductively Coupled Plasma – Mass  
Spectrometry (ICP-MS) (CEN/TS 17200:2018+AC:2018)  
- zamijenjena s: HRN EN 17200:2023

HRS CEN/TS 17201:2019 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Sadržaj anorganskih tvari – Metode analize produkata  
digestije zlatotopkom (CEN/TS 17201:2018+AC:2018)  
Construction products: Assessment of release of dangerous  
substances – Content of inorganic substances – Methods for  
analysis of aqua regia digests (CEN/TS 17201:2018+AC:2018)  
- zamijenjena s: HRN EN 17201:2023

HRS CEN/TS 17331:2019 en  
Građevni proizvodi: Procjena otpuštanja opasnih tvari  
– Sadržaj organskih tvari – Metode ekstrakcije i analize  
(CEN/TS 17331:2019)  
Construction products: Assessment of release of dangerous  
substances – Content of organic substances – Methods for  
extraction and analysis (CEN/TS 17331:2019)  
- zamijenjena s: HRN EN 17331:2023

HRS CEN/TS 17332:2019 en

Građevni proizvodi: Procjena otpuštanja opasnih tvari – Analiza organskih tvari u eluatima (CEN/TS 17332:2019)  
Construction products: Assessment of release of dangerous substances – Analysis of organic substances in eluates (CEN/TS 17332:2019)  
- zamijenjena s: HRN EN 17332:2023

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

HRN EN ISO 2811-3:2012 en

Boje i lakovi – Određivanje gustoće – 3. dio: Oscilacijska metoda (ISO 2811-3:2011; EN ISO 2811-3:2011)  
Paints and varnishes – Determination of density – Part 3: Oscillation method (ISO 2811-3:2011; EN ISO 2811-3:2011)  
- zamijenjena s: HRN EN ISO 2811-3:2023

### **HZN/TU F1, *Osnovne norme 1***

HRN EN 14450:2017 en

Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – Sigurnosni ormari (EN 14450:2017)  
Secure storage units – Requirements, classification and methods of test for resistance to burglary – Secure safe cabinets (EN 14450:2017)  
- zamijenjena s: HRN EN 14450:2023

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

HRN EN ISO 26443:2016 en

Fine ceramics (advanced ceramics, advanced technical ceramics) – Rockwell indentation test for evaluation of adhesion of ceramic coatings (ISO 26443:2008; EN ISO 26443:2016)  
- zamijenjena s: HRN EN ISO 26443:2023

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

HRN EN 455-3:2015 en

Medicinske rukavice za jednokratnu upotrebu – 3. dio: Zahtjevi i ispitivanje za biološko vrednovanje (EN 455-3:2015)  
Medical gloves for single use – Part 3: Requirements and testing for biological evaluation (EN 455-3:2015)  
- zamijenjena s: HRN EN 455-3:2023

HRN EN ISO 10555-1:2013 en

Intravaskularni kateteri – Sterilni i jednokratni kateteri – 1. dio: Opći zahtjevi (ISO 10555-1:2013, ispravljena verzija 2014-01-15; EN ISO 10555-1:2013)  
Intravascular catheters – Sterile and single-use catheters – Part 1: General requirements (ISO 10555-1:2013, Corrected version 2014-01-15; EN ISO 10555-1:2013)  
- zamijenjena s: HRN EN ISO 10555-1:2023

HRN EN ISO 10555-1:2013/A1:2018 en

Intravaskularni kateteri – Sterilni i jednokratni kateteri – 1. dio: Opći zahtjevi (ISO 10555-1:2013/Amd 1:2017; EN ISO 10555-1:2013/A1:2017)  
Intravascular catheters – Sterile and single-use catheters – Part 1: General requirements (ISO 10555-1:2013/Amd 1:2017; EN ISO 10555-1:2013/A1:2017)  
- zamijenjena s: HRN EN ISO 10555-1:2023

HRN EN ISO 10555-4:2013 en

Intravaskularni kateteri – Sterilni i jednokratni kateteri – 4. dio: Dilatacijski balonski kateteri (ISO 10555-4:2013; EN ISO 10555-4:2013)  
Intravascular catheters – Sterile and single-use catheters – Part 4: Balloon dilatation catheters (ISO 10555-4:2013; EN ISO 10555-4:2013)  
- zamijenjena s: HRN EN ISO 10555-4:2023

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

HRN EN 2882:2008 en

Nizovi o zrakoplovstvu – Matice, šesterokutne, samozatvarajuće, s upustom i neskidajućom podloškom, od čelika, prevučene kadmijem, podmazane s MoS<sub>2</sub> – Klasifikacija: 1100 MPa (pri temperaturi okoline)/235 °C (EN 2882:2006)  
Aerospace series – Nuts, hexagonal, self-locking, with counterbore and captive washer, in steel, cadmium plated, MoS<sub>2</sub> lubricated – Classification: 1100 MPa (at ambient temperature) / 235 °C (EN 2882:2006)  
- zamijenjena s: HRN EN 2882:2023

HRN EN 2995-001:2008 en

Nizovi o zrakoplovstvu – Automatski osigurači, jednopolni, temperaturno kompenzirani, nazivne struje 1 A do 25 A – 001. dio: Tehnička specifikacija (EN 2995-001:2006)  
Aerospace series – Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A – Part 001: Technical specification (EN 2995-001:2006)  
- zamijenjena s: HRN EN 2995-001:2023

HRN EN 9103:2015 en

Zrakoplovstvo – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama (EN 9103:2014)  
Aerospace series – Quality management systems – Variation management of key characteristics (EN 9103:2014)  
- zamijenjena s: HRN EN 9103:2023

HRN EN 9103:2015/Ispr.1:2015 en

Zrakoplovstvo – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama (EN 9103:2014/AC:2015)  
Aerospace series – Quality management systems – Variation management of key characteristics (EN 9103:2014/AC:2015)  
- zamijenjena s: HRN EN 9103:2023

HRN EN 9104-003:2011 en

Nizovi o zrakoplovstvu – Sustavi upravljanja kvalitetom – 003. dio: Zahtjevi za sustav upravljanja kvalitetom u zrakoplovstvu (AQMS), uvježbavanje auditora i kvalifikacije (EN 9104-003:2010)  
Aerospace series – Quality management systems – Part 003: Requirements for Aerospace Quality Management System (AQMS) Auditor Training and Qualification (EN 9104-003:2010)  
- zamijenjena s: HRN EN 9104-3:2023

HRN EN 16603-20:2020 en

Svemirsko inženjerstvo – Elektrotehnika i elektronika (EN 16603-20:2020)  
Space engineering – Electrical and electronic (EN 16603-20:2020)  
- zamijenjena s: HRN EN 16603-20:2023

## 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 8, Brodogradnja

- **umjesto**

HRN EN ISO 12215-5:2019

Mala plovila – Konstrukcija trupa i dimenzije konstrukcijskih elemenata – 5. dio: Projektni tlakovi za jednorupna 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)

- **treba biti**

HRN EN ISO 12215-5:2019

Mala plovila – Konstrukcija trupa i dimenzije konstrukcijskih elemenata – 5. dio: Projektni tlakovi za jednorupna plovila, projektna naprezanja, određivanje dimenzija konstrukcijskih elemenata (ISO 12215-5:2019, **ispravljena verzija 2023-11**; 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, **Corrected version 2023-11**; EN ISO 12215-5:2019)

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

- **umjesto**

HRN EN ISO 4259-4:2022

Nafta i srodni proizvodi – Preciznost mjernih metoda i rezultata – 4. dio: Uporaba statističkih kontrolnih karti za potvrdu statističke kontrole kvalitete pri provedbi standardne metode ispitivanja u pojedinom laboratoriju (ISO 4259-4:2021; EN ISO 4259-4:2022)  
Petroleum and related products – Precision of measurement methods and results – Part 4: Use of statistical control charts to validate 'in-statistical-control' status for the execution of a standard test method in a single laboratory (ISO 4259-4:2021; EN ISO 4259-4:2022)

- **treba biti**

HRN EN ISO 4259-4:2022

Nafta i srodni proizvodi – Preciznost mjernih metoda i rezultata – 4. dio: Uporaba statističkih kontrolnih karti za potvrdu statističke kontrole kvalitete pri provedbi standardne metode ispitivanja u pojedinom laboratoriju (ISO 4259-4:2021, **ispravljena verzija 2023-10**; EN ISO 4259-4:2022)  
Petroleum and related products – Precision of measurement methods and results – Part 4: Use of statistical control charts to validate 'in-statistical-control' status for the execution of a standard test method in a single laboratory (ISO 4259-4:2021, **Corrected version 2023-10**; EN ISO 4259-4:2022)

### HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša

- **umjesto**

HRN EN ISO 20130:2020

Kvaliteta tla – Određivanje obrazaca aktivnosti enzima u uzorcima tla **pomoću kalorimetrijskih** supstrata **uporabom pločice s mikrojamicama** (ISO 20130:2018; EN ISO 20130:2020)  
Soil quality – Measurement of enzyme activity patterns in soil samples using colorimetric substrates in micro-well plates (ISO 20130:2018; EN ISO 20130:2020)

- **treba biti**

HRN EN ISO 20130:2020

Kvaliteta tla – Određivanje obrazaca aktivnosti enzima u uzorcima tla **uporabom kolorimetrijskih** supstrata **u mikrotitarskim pločama** (ISO 20130:2018; EN ISO 20130:2020)  
Soil quality – Measurement of enzyme activity patterns in soil samples using colorimetric substrates in micro-well plates (ISO 20130:2018; EN ISO 20130:2020)

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

- **umjesto**

HRN EN ISO 3262-8:2023

Punila – Specifikacije i metode ispitivanja – 8. dio: Prirodna glina (ISO 3262-8:2023; EN ISO 3262-8:2023)  
Extenders – Specifications and methods of test – Part 8: Natural clay (ISO 3262-8:2023; EN ISO 3262-8:2023)

- **treba biti**

HRN EN ISO 3262-8:2023

Punila – Specifikacije i metode ispitivanja – 8. dio: Prirodna glina (ISO 3262-8:2023, **ispravljena verzija 2023-11**; EN ISO 3262-8:2023)  
Extenders – Specifications and methods of test – Part 8: Natural clay (ISO 3262-8:2023, **Corrected version 2023-11**; EN ISO 3262-8:2023)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

### HZN/TO 207, *Upravljanje okolišem*

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome i engleskome jeziku, kao dvojezično izdanje:

HRN EN ISO 14040:2008/A1:2020 hr-en-en pr-pp  
Upravljanje okolišem – Procjena životnog ciklusa (LCA)  
– Načela i okvir rada (ISO 14040:2006/Amd 1:2020;  
EN ISO 14040:2006/A1:2020)  
Environmental management – Life cycle assessment  
– Principles and framework (ISO 14040:2006/Amd 1:2020;  
EN ISO 14040:2006/A1:2020)

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

Sljedeće hrvatske norme objavljene na engleskome jeziku sada su dostupne i na hrvatskome jeziku:

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

HRN EN 50122-1:2011/A1:2013 hr-en pr-pp  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mjere protiv električnog udara (EN 50122-1:2011/A1:2011)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/A1:2011)

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

HRN EN 50122-1:2011/A3:2017 hr-en pr-pp  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mjere protiv električnog udara (EN 50122-1:2011/A3:2016)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/A3:2016)

HRN EN 50122-1:2011/A4:2017 hr-en pr-pp  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mjere protiv električnog udara (EN 50122-1:2011/A4:2017)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/A4:2017)

HRN EN 50122-1:2011/Ispr.1:2013 hr-en pr-pp  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mjere protiv električnog udara (EN 50122-1:2011/AC:2012)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2011/AC:2012)

## 2 Rezultati medunarodne i europske normizacije

### Europska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 1176-1+A1	Playground equipment and surfacing – Part 1: General safety requirements and test methods	97.200.40	2023-10
EN 1405	Chemicals used for treatment of water intended for human consumption – Sodium alginate	71.100.80	2023-10
EN 1407	Chemicals used for treatment of water intended for human consumption – Anionic and non-ionic polyacrylamides	71.100.80	2023-10
EN 1408	Chemicals used for treatment of water intended for human consumption – Poly(diallyldimethylammonium chloride)	71.100.80	2023-10
EN 1409	Chemicals used for water treatment intended for human consumption – Polyamines	71.100.80	2023-10
EN 1410	Chemicals used for treatment of water intended for human consumption – Cationic polyacrylamides	71.100.80	2023-10
CEN/TS 1455-2	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS) – Part 2: Assessment of conformity	23.040.01; 91.140.80	2023-10
CEN/TS 1566-2	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly(vinyl chloride) (PVC-C) – Part 2: Assessment of conformity	23.040.20; 91.140.80	2023-10
EN 3375-009	Cable, electrical, for digital data transmission – Part 009: Single braid – CAN Bus – 120 ohms – Type WX – Product standard	49.060; 49.090	2023-10
EN 3660-003	Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 003: Grommet nut, style A – Product standard	49.060	2023-10
EN 3660-004	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	49.060	2023-10
EN 3660-005	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	49.060	2023-10
EN 4709-002	Aerospace series – Unmanned Aircraft Systems – Part 002: Direct Remote identification	03.220.50; 35.240.60; 49.020	2023-10
EN 4842	Aerospace series – Steel X5CrNiCu15-5 (1.4545) – Consumable electrode remelted (ESR or VAR) – Solution treated and precipitation treated (H1025) – Bars for machining – a or D ≤ 250 mm – 1070 MPa ≤ R <sub>m</sub> ≤ 1200 MPa – Premium quality (pq)	49.025.15	2023-10
EN 4868	Aerospace series – Anodic electrodeposition of hexavalent chromium free primer	49.040	2023-10
EN 4905	Aerospace series – Passive UHF RFID for airborne use	35.040.50; 35.240.60; 49.035	2023-10
EN 4906	Aerospace series – Embedded tags – Choice of fixation for installation, removal and replacement of embedded tags	35.240.60; 49.035	2023-10
EN 9722	Aerospace series – Architecture for integrated management of a system's health condition	49.020	2023-10
EN 12608-2	Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors – Classification, requirements and test methods – Part 2: PVC-U profiles covered with foils bonded with adhesives	83.140.99; 91.060.50	2023-10
EN 12663-2+A1	Railway applications – Structural requirements of railway vehicle bodies – Part 2: Freight wagons	45.060.20	2023-10
EN 13049	Windows and doors – Soft and heavy body impact – Test method, safety requirements and classification	91.060.50	2023-10
EN 13232-1	Railway applications – Track – Switches and crossings for Vignole rails – Part 1: Definitions	01.040.93; 93.100	2023-10
EN 13232-2	Railway applications – Track – Switches and crossings for Vignole rails – Part 2: Requirements for geometric design	93.100	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
EN 13232-3	Railway applications – Track – Switches and crossings for Vignole rails – Part 3: Requirements for wheel/rail interaction	93.100	2023-10
EN 13232-4	Railway applications – Track – Switches and crossings for Vignole rails – Part 4: Actuation, locking and detection	93.100	2023-10
EN 13232-5	Railway applications – Track – Switches and crossings for Vignole rails – Part 5: Switches	93.100	2023-10
EN 13232-6	Railway applications – Track – Switches and crossings for Vignole rails – Part 6: Fixed common and obtuse crossings	93.100	2023-10
EN 13232-7	Railway applications – Track – Switches and crossings for Vignole rails – Part 7: Crossings with moveable parts	93.100	2023-10
EN 13232-8	Railway applications – Track – Switches and crossings for Vignole rails – Part 8: Expansion devices	93.100	2023-10
EN 13232-9	Railway applications – Track – Switches and crossings for Vignole rails – Part 9: Layouts	93.100	2023-10
EN 13416	Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Rules for sampling	91.100.50	2023-10
EN 13523-23	Coil coated metals – Test methods – Part 23: Resistance to humid atmospheres containing sulfur dioxide	17.180.20; 25.220.60	2023-10
EN 14420-7/AC	Hose fittings with clamp units – Part 7: Cam locking couplings	23.040.70	2023-10
EN 14944-1	Influence of cementitious products on water intended for human consumption – Test methods – Part 1: Influence of factory made cementitious products on organoleptic parameters	13.060.20; 67.250	2023-10
EN 15085-2+A1	Railway applications – Welding of railway vehicles and components – Part 2: Requirements for welding manufacturer	25.160.01; 45.060.01	2023-10
CEN/TS 15427-1-2	Railway applications – Wheel/rail friction management – Part 1-2: Equipment and application – Top of rail	21.260; 45.080; 45.120	2023-10
CEN/TS 15427-1-3	Railway applications – Wheel/Rail Friction Management – Part 1-3: Equipment and Application – Adhesion Materials	45.040	2023-10
CEN/TS 15427-2-2	Railway applications – Wheel/rail friction management – Part 2-2: Properties and characteristics – Top of rail materials	45.080; 45.120	2023-10
CEN/TS 15427-2-3	Railway applications – Wheel/rail friction management – Part 2-3: Properties and Characteristics – Adhesion materials	45.040	2023-10
EN 15595+A1	Railway applications – Braking – Wheel slide protection	45.040	2023-10
EN 16272-3-1	Railway applications – Infrastructure – Noise barriers and related devices acting on airborne sound propagation – Test method for determining the acoustic performance – Part 3-1: Normalized railway noise spectrum and single number ratings for diffuse sound field applications	93.100	2023-10
EN 16272-3-2	Railway applications – Infrastructure – Noise barriers and related devices acting on airborne sound propagation – Test method for determining the acoustic performance – Part 3-2: Normalized railway noise spectrum and single number ratings for direct sound field applications	93.100	2023-10
EN 16905-1	Gas-fired endothermic engine driven heat pumps – Part 1: Terms and definitions	01.040.27; 27.080	2023-10
EN 16906	Liquid petroleum products – Determination of the ignition quality of diesel fuels – Fixed compression ratio engine method	75.160.20	2023-10
EN 17343	Railway applications – General terms and definitions	01.040.45; 45.060.01	2023-10
EN 17483-2	Private security services – Protection of Critical Infrastructure – Part 2: Airport and aviation security services	03.080.20; 13.310	2023-10
EN 17483-3	Private security services – Protection of critical infrastructure – Part 3: Maritime and port security services	03.080.20; 03.220.40; 13.310	2023-10
EN 17505	Soil and waste characterization – Temperature dependent differentiation of total carbon (TOC400, ROC, TIC900)	13.030.10; 13.080.10	2023-10
EN 17531+A1	Reporting in support of supervision of online gambling services by the gambling regulatory authorities of the Member States	03.160; 35.240.99; 97.200.99	2023-10
EN 17636	Railway applications – Infrastructure – Track alignment design parameters – Urban rail	93.100	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
EN 17740	Requirements for professional profiles related to personal data processing and protection	03.100.30; 35.030	2023-10
EN 17750	Agricultural and forestry machinery – Installation of lighting and light signalling devices on mounted implements	43.040.20; 65.060.10	2023-10
EN 17799	Personal data protection requirements for processing operations	03.120.20; 03.160	2023-10
EN 17813	Environmental solid matrices – Determination of halogens and sulfur by oxidative pyrohydrolytic combustion followed by ion chromatography	71.040.40; 71.040.50	2023-10
EN 17863	Railway applications – Ground based services – Coach hygiene requirements	45.060.20	2023-10
EN 17891	Conservation of cultural heritage – Desalination of porous inorganic materials by poultices	71.060.01; 97.195	2023-10
CEN/TS 17973	Safety of toys – Categorization of slime type materials	97.200.50	2023-10
CEN/TR 17989	Electronic cigarettes and e-liquids – Terms and definitions	01.040.65; 65.160	2023-10
CEN/TR 17993	Calibration and accuracy of non-catching precipitation measurement instruments	07.060; 17.120.20	2023-10
CEN/TR 17994	One post equipment – Inspection guidance	97.200.40	2023-10
EN 45545-2+A1	Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components	13.220.20; 45.060.01	2023-10
EN 50194-1	Electrical apparatus for the detection of flammable gases in household premises – Part 1: Test methods and performance requirements	13.320	2023-10
EN 50549-1/A1	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	27.100; 29.160.20	2023-10
EN 50549-2/A1	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	29.160.20	2023-10
EN 50700	Information technology – Premises distribution access network (PDAN) cabling to support deployment of optical broadband networks	35.110	2023-10
EN 60269-6/A1	Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems (IEC 60269-6:2010/A1:2021 + COR1:2021)	29.120.50	2023-10
EN IEC 60335-2-14	Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines (IEC 60335-2-14:2016)	13.120; 97.040.50	2023-10
EN IEC 60404-8-1	Magnetic materials – Part 8-1: Specifications for individual materials – Permanent magnet (magnetically hard) materials (IEC 60404-8-1:2023)	17.220.20; 29.030	2023-10
EN 60456/A12	Clothes washing machines for household use – Methods of measuring the performance	97.060	2023-10
EN IEC 60601-2-76/A1	Medical electrical equipment – Part 2-76: Particular requirements for the basic safety and essential performance of low energy ionized gas haemostasis equipment (IEC 60601-2-76:2018/AMD1:2023)	11.040.60	2023-10
EN 60670-21/A1	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means (IEC 60670-21:2004/A1:2016)	29.120.10	2023-10
EN 60670-21/A11	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means	29.120.10	2023-10
EN 60704-2-4/A12	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-4: Particular requirements for washing machines and spin extractors	17.140.20; 97.060	2023-10



Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 60704-2-16/A12	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-16: Particular requirements for washer-dryers	17.140.20; 97.060	2023-10
EN IEC 60794-1-111	Optical fibre cables – Part 1-111: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Bend, method E11 (IEC 60794-1-111:2023)	33.180.10	2023-10
EN IEC 60794-1-306	Optical fibre cables – Part 1-306: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon torsion, Method G6 (IEC 60794-1-306:2023)	33.180.10	2023-10
EN IEC 61189-2-804	Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 2-804: Test methods for time to delamination – T260, T288, T300 (IEC 61189-2-804:2023)	31.180	2023-10
EN IEC 61462	Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1000 V AC and D.C. voltage greater than 1500V – Definitions, test methods, acceptance criteria and design recommendations (IEC 61462:2023)	29.080.10	2023-10
EN IEC 61557-7/A1	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 7: Phase sequence (IEC 61557-7:2019/AMD1:2023)	17.220.20; 29.080.01; 29.240.01	2023-10
EN IEC 61800-3	Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods for PDS and machine tools (IEC 61800-3:2022)	29.160.30; 29.200; 33.100.01	2023-10
EN IEC 61800-5-1	Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy (IEC 61800-5-1:2022 + COR1:2023)	13.110; 29.130.99; 29.160.30; 29.200	2023-10
EN IEC 61800-5-3	Adjustable speed electrical power drive systems – Part 5-3: Safety requirements – Functional, electrical and environmental requirements for encoders (IEC 61800-5-3:2021)	13.110; 29.130.99; 29.160.30; 29.200	2023-10
EN IEC 62040-1/A1	Uninterruptible power systems (UPS) – Part 1: Safety requirements (IEC 62040-1:2017/A1:2021)	29.160.40; 29.200	2023-10
EN IEC 62148-17	Fibre optic active components and devices – Package and interface standards – Part 17: Transmitter and receiver components with dual coaxial RF connectors (IEC 62148-17:2023)	33.180.30; 33.180.99	2023-10
EN IEC 62386-305	Digital addressable lighting interface – Part 305: Particular requirements – Input devices – Colour sensor (IEC 62386-305:2023)	29.140.50; 29.140.99	2023-10
EN IEC 62477-1	Safety requirements for power electronic converter systems and equipment – Part 1: General (IEC 62477-1:2022)	29.200; 31.080.99	2023-10
EN IEC 62512/A12	Electric clothes washer-dryers for household use – Methods of measuring the performance	97.060	2023-10
EN 62751-2/A2	Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems – Part 2: Modular multilevel converters (IEC 62751-2:2014/AMD2:2023)	29.200; 29.240.99	2023-10
EN IEC 62788-2-1	Measurement procedures for materials used in photovoltaic modules – Part 2-1: Polymeric materials – Frontsheet and backsheets – Safety requirements (IEC 62788-2-1:2023)	27.160	2023-10
EN IEC 62841-4-7/AC	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-7: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators	65.060.70	2023-10
EN IEC 62877-1	Electrolyte and water for vented lead acid accumulators – Part 1: Requirements for electrolyte (IEC 62877-1:2023)	29.220.20	2023-10
EN IEC 63345	Energy efficiency systems – Simple external consumer display (IEC 63345:2023)	27.015; 29.020; 91.140.50	2023-10
EN ISO 60	Plastics – Determination of apparent density of material that can be poured from a specified funnel (ISO 60:2023)	83.080.10	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 61	Plastics – Determination of apparent density of moulding material that cannot be poured from a specified funnel (ISO 61:2023)	83.080.01	2023-10
EN ISO 683-17	Heat-treated steels, alloy steels and free-cutting steels – Part 17: Ball and roller bearing steels (ISO 683-17:2023)	21.100.20; 77.140.10	2023-10
EN ISO 1833-4	Textiles – Quantitative chemical analysis – Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite) (ISO 1833-4:2023)	59.060.01	2023-10
EN ISO 2505	Thermoplastics pipes – Longitudinal reversion – Test method and parameters (ISO 2505:2023)	23.040.20	2023-10
EN ISO 3671	Plastics – Aminoplastic moulding materials – Determination of volatile matter (ISO 3671:2023)	83.080.10	2023-10
EN ISO 3887	Steels – Determination of the depth of decarburization (ISO 3887:2023)	77.040.99	2023-10
EN ISO 4545-1	Metallic materials – Knoop hardness test – Part 1: Test method (ISO 4545-1:2023)	77.040.10	2023-10
EN ISO 4628-6	Paints and varnishes – Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 6: Assessment of degree of chalking by tape method (ISO 4628-6:2023)	87.040	2023-10
EN ISO 4865-1	Dentistry – General requirements of hand instruments – Part 1: Non-hinged hand instruments (ISO 4865-1:2023)	11.060.20	2023-10
EN ISO 4973	Cosmetics – Microbiology – Quality control of culture media and diluents used in cosmetics standards (ISO 4973:2023)	07.100.40	2023-10
EN ISO 5210	Industrial valves – Multi-turn valve actuator attachments (ISO 5210:2023)	23.060.99	2023-10
EN ISO 5754	Sintered metal materials, excluding hardmetals – Unnotched impact test piece (ISO 5754:2023)	77.040.10; 77.160	2023-10
EN ISO 6306	Chemical analysis of steel – Order of listing elements in steel standards (ISO 6306:2020)	77.080.20	2023-10
EN ISO 6507-1	Metallic materials – Vickers hardness test – Part 1: Test method (ISO 6507-1:2023)	77.040.10	2023-10
EN ISO 9012	Gas welding equipment – Air-aspirated hand blowpipes – Specifications and tests (ISO 9012:2023)	25.160.30	2023-10
EN ISO 10534-2	Acoustics – Determination of acoustic properties in impedance tubes – Part 2: Two-microphone technique for normal sound absorption coefficient and normal surface impedance (ISO 10534-2:2023)	17.140.01	2023-10
EN ISO 11607-1/A1	Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems – Amendment 1: Application of risk management (ISO 11607-1:2019/Amd 1:2023)	11.080.30	2023-10
EN ISO 11607-2/A1	Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes – Amendment 1: Application of risk management (ISO 11607-2:2019/Amd 1:2023)	11.080.30	2023-10
EN ISO 11855-1/A1	Building environment design – Embedded radiant heating and cooling systems – Part 1: Definitions, symbols, and comfort criteria – Amendment 1 (ISO 11855-1:2021/Amd 1:2023)	91.040.01	2023-10
EN ISO 11855-3/A1	Building environment design – Embedded radiant heating and cooling systems – Part 3: Design and dimensioning – Amendment 1 (ISO 11855-3:2021/Amd 1:2023)	91.040.01	2023-10
EN ISO 11855-4/A1	Building environment design – Embedded radiant heating and cooling systems – Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS) – Amendment 1 (ISO 11855-4:2021/Amd 1:2023)	91.040.01	2023-10
EN ISO 11997-3	Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 3: Testing of coating systems on materials and components in automotive construction (ISO 11997-3:2022)	87.040	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 12736-1	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 1: Validation of materials and insulation systems (ISO 12736-1:2023)	25.220.20; 75.180.10	2023-10
EN ISO 12736-2	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 2: Qualification processes for production and application procedures (ISO 12736-2:2023)	25.220.20; 75.180.10	2023-10
EN ISO 12736-3	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 3: Interfaces between systems, field joint system, field repairs and prefabricated insulation (ISO 12736-3:2023)	25.220.20; 75.180.10	2023-10
EN ISO 13703-2	Oil and gas industries including lower carbon energy – Piping systems on offshore platforms and onshore plants – Part 2: Materials (ISO 13703-2:2023)	75.180.10	2023-10
EN ISO 13703-3	Oil and gas industries including lower carbon energy – Piping systems on offshore production platforms and onshore plants – Part 3: Fabrication (ISO 13703-3:2023)	75.180.10	2023-10
EN ISO 14126	Fibre-reinforced plastic composites – Determination of compressive properties in the in-plane direction (ISO 14126:2023)	83.120	2023-10
EN ISO 14644-18	Cleanrooms and associated controlled environments – Part 18: Assessment of suitability of consumables (ISO 14644-18:2023)	13.040.35	2023-10
EN ISO 15118-9	Road vehicles – Vehicle to grid communication interface – Part 9: Physical and data link layer conformance test for wireless communication (ISO 15118-9:2022)	43.120	2023-10
EN ISO 15551	Petroleum and natural gas industries – Drilling and production equipment – Electric submersible pump systems for artificial lift (ISO 15551:2023)	75.180.10	2023-10
EN ISO 17294-2	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes (ISO 17294-2:2023)	13.060.50	2023-10
EN ISO 18755	Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of thermal diffusivity of monolithic ceramics by flash method (ISO 18755:2022)	81.060.30	2023-10
EN ISO 23783-1	Automated liquid handling systems – Part 1: Vocabulary and general requirements (ISO 23783-1:2022)	01.040.71; 71.040.20	2023-10
EN ISO 23783-2	Automated liquid handling systems – Part 2: Measurement procedures for the determination of volumetric performance (ISO 23783-2:2022)	17.060; 71.040.20	2023-10
EN ISO 23783-3	Automated liquid handling systems – Part 3: Determination, specification and reporting of volumetric performance (ISO 23783-3:2022)	17.060; 71.040.20	2023-10
EN ISO 24806	Recreational diving services – Requirements for rebreather diver training – Decompression diving to 60 m (ISO 24806:2023)	03.080.30; 03.100.30; 03.200.99	2023-10
EN ISO 25457	Oil and gas industries including lower carbon energy – Flare details for general refinery and petrochemical service (ISO 25457:2023)	75.180.20	2023-10
EN ISO 25745-2/A1	Energy performance of lifts, escalators and moving walks – Part 2: Energy calculation and classification for lifts (elevators) – Amendment 1: Express zones (ISO 25745-2:2015/Amd 1:2023)	91.140.90	2023-10
EN ISO 52016-3	Energy performance of buildings – Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads – Part 3: Calculation procedures regarding adaptive building envelope elements (ISO 52016-3:2023)	91.120.10	2023-10

## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 17740	Requirements for professional profiles related to personal data processing and protection	03.100.30; 35.030	2023-10
EN 17799	Personal data protection requirements for processing operations	03.120.20; 03.160	2023-10
EN 50194-1	Electrical apparatus for the detection of flammable gases in household premises – Part 1: Test methods and performance requirements	13.320	2023-10
EN 50549-1/A1	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	27.100; 29.160.20	2023-10
EN 50549-2/A1	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	29.160.20	2023-10
EN 50700	Information technology – Premises distribution access network (PDAN) cabling to support deployment of optical broadband networks	35.110	2023-10
EN 60269-6/A1	Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems (IEC 60269-6:2010/A1:2021 + COR1:2021)	29.120.50	2023-10
EN IEC 60335-2-14	Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines (IEC 60335-2-14:2016)	13.120; 97.040.50	2023-10
EN IEC 60404-8-1	Magnetic materials – Part 8-1: Specifications for individual materials – Permanent magnet (magnetically hard) materials (IEC 60404-8-1:2023)	17.220.20; 29.030	2023-10
EN 60456/A12	Clothes washing machines for household use – Methods of measuring the performance	97.060	2023-10
EN IEC 60601-2-76/A1	Medical electrical equipment – Part 2-76: Particular requirements for the basic safety and essential performance of low energy ionized gas haemostasis equipment (IEC 60601-2-76:2018/AMD1:2023)	11.040.60	2023-10
EN 60670-21/A1	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means (IEC 60670-21:2004/A1:2016)	29.120.10	2023-10
EN 60670-21/A11	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means	29.120.10	2023-10
EN 60704-2-4/A12	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-4: Particular requirements for washing machines and spin extractors	17.140.20; 97.060	2023-10
EN IEC 60704-2-16/A12	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-16: Particular requirements for washer-dryers	17.140.20; 97.060	2023-10
EN IEC 60794-1-111	Optical fibre cables – Part 1-111: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Bend, method E11 (IEC 60794-1-111:2023)	33.180.10	2023-10
EN IEC 60794-1-306	Optical fibre cables – Part 1-306: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon torsion, Method G6 (IEC 60794-1-306:2023)	33.180.10	2023-10
EN IEC 61189-2-804	Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 2-804: Test methods for time to delamination – T260, T288, T300 (IEC 61189-2-804:2023)	31.180	2023-10
EN IEC 61462	Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1000 V AC and D.C. voltage greater than 1500V – Definitions, test methods, acceptance criteria and design recommendations (IEC 61462:2023)	29.080.10	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 61557-7/A1	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 7: Phase sequence (IEC 61557-7:2019/AMD1:2023)	17.220.20; 29.080.01; 29.240.01	2023-10
EN IEC 61800-3	Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods for PDS and machine tools (IEC 61800-3:2022)	29.160.30; 29.200; 33.100.01	2023-10
EN IEC 61800-5-1	Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy (IEC 61800-5-1:2022 + COR1:2023)	13.110; 29.130.99; 29.160.30; 29.200	2023-10
EN IEC 61800-5-3	Adjustable speed electrical power drive systems – Part 5-3: Safety requirements – Functional, electrical and environmental requirements for encoders (IEC 61800-5-3:2021)	13.110; 29.130.99; 29.160.30; 29.200	2023-10
EN IEC 62040-1/A1	Uninterruptible power systems (UPS) – Part 1: Safety requirements (IEC 62040-1:2017/A1:2021)	29.160.40; 29.200	2023-10
EN IEC 62148-17	Fibre optic active components and devices – Package and interface standards – Part 17: Transmitter and receiver components with dual coaxial RF connectors (IEC 62148-17:2023)	33.180.30; 33.180.99	2023-10
EN IEC 62386-305	Digital addressable lighting interface – Part 305: Particular requirements – Input devices – Colour sensor (IEC 62386-305:2023)	29.140.50; 29.140.99	2023-10
EN IEC 62477-1	Safety requirements for power electronic converter systems and equipment – Part 1: General (IEC 62477-1:2022)	29.200; 31.080.99	2023-10
EN IEC 62512/A12	Electric clothes washer-dryers for household use – Methods of measuring the performance	97.060	2023-10
EN 62751-2/A2	Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems – Part 2: Modular multilevel converters (IEC 62751-2:2014/AMD2:2023)	29.200; 29.240.99	2023-10
EN IEC 62788-2-1	Measurement procedures for materials used in photovoltaic modules – Part 2-1: Polymeric materials – Frontsheet and backsheet – Safety requirements (IEC 62788-2-1:2023)	27.160	2023-10
EN IEC 62841-4-7/AC	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-7: Particular requirements for pedestrian controlled walk-behind lawn scarifiers and aerators	65.060.70	2023-10
EN IEC 62877-1	Electrolyte and water for vented lead acid accumulators – Part 1: Requirements for electrolyte (IEC 62877-1:2023)	29.220.20	2023-10
EN IEC 63345	Energy efficiency systems – Simple external consumer display (IEC 63345:2023)	27.015; 29.020; 91.140.50	2023-10

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 103307 V 1.5.1	CYBER – Security Aspects for LI and RD Interfaces	33.040.99; 35.030	2023-10
ETSI TR 103559 V 1.2.1	Speech and multimedia Transmission Quality (STQ) – Best practices for robust network QoS benchmark testing and scoring	33.040.01	2023-10
ETSI TS 103732-1 V 2.1.1	CYBER – Consumer Mobile Device – Part 1: Base Protection Profile	33.040.99; 35.030	2023-10
ETSI TS 103732-2 V 1.1.1	CYBER – Consumer Mobile Device – Part 2: Biometric Authentication Protection Profile Module	33.040.99; 35.030	2023-10
ETSI TS 103732-3 V 1.1.1	CYBER – Consumer Mobile Device – Part 3: Multi-user Protection Profile Module	33.040.99; 35.030	2023-10
ETSI TS 103932-1 V 1.1.1	CYBER – Consumer Mobile Devices Base PP-Configuration – Part 1: CMD and Biometric Verification	33.040.99; 35.030	2023-10
ETSI TR 103946 V 1.1.1	Methods for Testing & Specification (MTS) – Security validation of IoT architecture application and conformity – Case Study Experiences	35.240.95	2023-10
ETSI TR 103950 V 1.1.1	Speech and multimedia Transmission Quality (STQ) – Gender-related aspects of listening quality and effort in speech communication systems	33.040.01	2023-10
ETSI TS 123041 V 18.2.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Technical realization of Cell Broadcast Service (CBS) (3GPP TS 23.041 version 18.2.0 Release 18)	33.070.50	2023-10
ETSI TS 124501 V 17.12.0	5G – Non-Access-Stratum (NAS) protocol for 5G System (5GS) – Stage 3 (3GPP TS 24.501 version 17.12.0 Release 17)	33.070.99	2023-10
ETSI TS 126247 V 16.8.1	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 16.8.1 Release 16)	33.070.50	2023-10
ETSI TS 126247 V 17.4.1	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 17.4.1 Release 17)	33.070.50	2023-10
ETSI TS 126512 V 16.11.0	5G – 5G Media Streaming (5GMS) – Protocols (3GPP TS 26.512 version 16.11.0 Release 16)	33.070.50	2023-10
ETSI TS 126512 V 17.6.0	5G – 5G Media Streaming (5GMS) – Protocols (3GPP TS 26.512 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 126517 V 17.4.0	LTE – 5G – 5G Multicast-Broadcast User Services – Protocols and Formats (3GPP TS 26.517 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 128623 V 17.7.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.623 version 17.7.0 Release 17)	33.070.50	2023-10
ETSI TS 129336 V 15.9.0	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 15.9.0 Release 15)	33.070.50	2023-10
ETSI TS 129336 V 16.4.0	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 16.4.0 Release 16)	33.070.50	2023-10
ETSI TS 129336 V 17.4.0	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 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 129338 V 11.3.0	Universal Mobile Telecommunications System (UMTS) – LTE – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 11.3.0 Release 11)	33.070.50	2023-10

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ETSI TS 129338 V 12.6.0	Universal Mobile Telecommunications System (UMTS) – LTE – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 12.6.0 Release 12)	33.070.50	2023-10
ETSI TS 129338 V 13.5.0	Universal Mobile Telecommunications System (UMTS) – LTE – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 13.5.0 Release 13)	33.070.50	2023-10
ETSI TS 129338 V 14.4.0	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 14.4.0 Release 14)	33.070.50	2023-10
ETSI TS 129338 V 15.4.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 15.4.0 Release 15)	33.070.50	2023-10
ETSI TS 129338 V 16.3.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 16.3.0 Release 16)	33.070.50	2023-10
ETSI TS 129338 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Diameter based protocols to support Short Message Service (SMS) capable Mobile Management Entities (MMEs) (3GPP TS 29.338 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 129518 V 17.11.0	5G – 5G System – Access and Mobility Management Services – Stage 3 (3GPP TS 29.518 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 129564 V 17.3.0	5G – 5G System – User Plane Function Services – Stage 3 (3GPP TS 29.564 version 17.3.0 Release 17)	33.070.50	2023-10
ETSI TS 131121 V 16.13.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 16.13.0 Release 16)	33.070.50	2023-10
ETSI TS 131121 V 17.0.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 17.0.0 Release 17)	33.070.50	2023-10
ETSI TS 131124 V 16.13.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 16.13.0 Release 16)	33.070.50	2023-10
ETSI TS 131124 V 17.0.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 17.0.0 Release 17)	33.070.50	2023-10
ETSI TS 132156 V 15.4.0	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fixed Mobile Convergence (FMC) model repertoire (3GPP TS 32.156 version 15.4.0 Release 15)	33.070.50	2023-10
ETSI TS 132156 V 16.8.0	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fixed Mobile Convergence (FMC) model repertoire (3GPP TS 32.156 version 16.8.0 Release 16)	33.070.50	2023-10
ETSI TS 132156 V 17.4.0	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fixed Mobile Convergence (FMC) model repertoire (3GPP TS 32.156 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 132158 V 16.11.0	LTE – 5G – Management and orchestration – Design rules for REpresentational State Transfer (REST) Solution Sets (SS) (3GPP TS 32.158 version 16.11.0 Release 16)	33.070.50	2023-10
ETSI TS 132158 V 17.6.0	LTE – 5G – Management and orchestration – Design rules for REpresentational State Transfer (REST) Solution Sets (SS) (3GPP TS 32.158 version 17.6.0 Release 17)	33.070.50	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 132160 V 17.9.0	LTE – 5G – Management and orchestration – Management service template (3GPP TS 32.160 version 17.9.0 Release 17)	33.070.50	2023-10
ETSI TS 132254 V 17.4.0	LTE – 5G – Telecommunication management – Charging management – Exposure function Northbound Application Program Interfaces (APIs) charging (3GPP TS 32.254 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 132255 V 17.11.0	5G – Telecommunication management – Charging management – 5G data connectivity domain charging – Stage 2 (3GPP TS 32.255 version 17.11.0 Release 17)	33.070.50	2023-10
ETSI TS 132256 V 17.3.0	5G – Charging management – 5G connection and mobility domain charging – Stage 2 (3GPP TS 32.256 version 17.3.0 Release 17)	33.070.50	2023-10
ETSI TS 132257 V 17.4.0	5G – Telecommunication management – Charging management – Edge computing domain charging (3GPP TS 32.257 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 132291 V 16.15.0	5G – Telecommunication management – Charging management – 5G system, charging service – Stage 3 (3GPP TS 32.291 version 16.15.0 Release 16)	33.070.50	2023-10
ETSI TS 132291 V 17.8.0	5G – Telecommunication management – Charging management – 5G system, charging service – Stage 3 (3GPP TS 32.291 version 17.8.0 Release 17)	33.070.50	2023-10
ETSI TS 132298 V 17.8.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 17.8.0 Release 17)	33.070.50	2023-10
ETSI TS 132423 V 16.9.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace data definition and management (3GPP TS 32.423 version 16.9.0 Release 16)	33.070.50	2023-10
ETSI TS 132423 V 17.7.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace data definition and management (3GPP TS 32.423 version 17.7.0 Release 17)	33.070.50	2023-10
ETSI TS 133108 V 17.2.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 3G security – Handover interface for Lawful Interception (LI) (3GPP TS 33.108 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 133117 V 17.4.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Catalogue of general security assurance requirements (3GPP TS 33.117 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 133127 V 17.10.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Lawful Interception (LI) architecture and functions (3GPP TS 33.127 version 17.10.0 Release 17)	33.070.50	2023-10
ETSI TS 133128 V 17.10.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Security – Protocol and procedures for Lawful Interception (LI) – Stage 3 (3GPP TS 33.128 version 17.10.0 Release 17)	33.070.50	2023-10
ETSI TS 133256 V 17.4.0	5G – Security aspects of Uncrewed Aerial Systems (UAS) (3GPP TS 33.256 version 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 133310 V 16.14.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Network Domain Security (NDS) – Authentication Framework (AF) (3GPP TS 33.310 version 16.14.0 Release 16)	33.070.50	2023-10
ETSI TS 133310 V 17.7.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Network Domain Security (NDS) – Authentication Framework (AF) (3GPP TS 33.310 version 17.7.0 Release 17)	33.070.50	2023-10
ETSI TS 133501 V 16.16.0	5G – Security architecture and procedures for 5G System (3GPP TS 33.501 version 16.16.0 Release 16)	33.070.50	2023-10



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ETSI TS 133501 V 17.11.1	5G – Security architecture and procedures for 5G System (3GPP TS 33.501 version 17.11.1 Release 17)	33.070.50	2023-10
ETSI TS 133503 V 17.5.0	5G – Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) (3GPP TS 33.503 version 17.5.0 Release 17)	33.070.50	2023-10
ETSI TS 133535 V 17.9.0	5G – Authentication and Key Management for Applications (AKMA) based on 3GPP credentials in the 5G System (5GS) (3GPP TS 33.535 version 17.9.0 Release 17)	33.070.50	2023-10
ETSI TR 133926 V 17.8.0	LTE – 5G – Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes (3GPP TR 33.926 version 17.8.0 Release 17)	33.070.50	2023-10
ETSI TS 134123-2 V 15.5.0	Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 2: Implementation conformance statement (ICS) proforma specification (3GPP TS 34.123-2 version 15.5.0 Release 15)	33.070.50	2023-10
ETSI TS 134229-1 V 16.7.0	Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.229-1 version 16.7.0 Release 16)	33.070.50	2023-10
ETSI TS 134229-2 V 16.8.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) specification (3GPP TS 34.229-2 version 16.8.0 Release 16)	33.070.50	2023-10
ETSI TS 134229-3 V 17.3.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – 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 17.3.0 Release 17)	33.070.50	2023-10
ETSI TS 134229-5 V 16.8.0	5G – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 5: Protocol conformance specification using 5G System (5GS) (3GPP TS 34.229-5 version 16.8.0 Release 16)	33.070.50	2023-10
ETSI TS 136101 V 14.26.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 14.26.0 Release 14)	33.070.50; 33.070.99	2023-10
ETSI TS 136101 V 15.23.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 15.23.0 Release 15)	33.070.50; 33.070.99	2023-10
ETSI TS 136101 V 16.18.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 16.18.0 Release 16)	33.070.50; 33.070.99	2023-10
ETSI TS 136101 V 17.11.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 17.11.0 Release 17)	33.070.50; 33.070.99	2023-10
ETSI TS 136307 V 17.6.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 136321 V 17.6.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 136331 V 15.21.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 15.21.0 Release 15)	33.070.50	2023-10
ETSI TS 136331 V 16.13.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 16.13.0 Release 16)	33.070.50	2023-10

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ETSI TS 136331 V 17.6.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 136423 V 15.14.0	LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 15.14.0 Release 15)	33.070.50	2023-10
ETSI TS 136423 V 16.12.0	LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 16.12.0 Release 16)	33.070.50	2023-10
ETSI TS 136423 V 17.6.0	LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 136509 V 13.9.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Special conformance testing functions for User Equipment (UE) (3GPP TS 36.509 version 13.9.0 Release 13)	33.070.50	2023-10
ETSI TS 136509 V 14.8.0	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 14.8.0 Release 14)	33.070.50	2023-10
ETSI TS 136509 V 15.7.0	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 15.7.0 Release 15)	33.070.50	2023-10
ETSI TS 136509 V 16.6.0	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 16.6.0 Release 16)	33.070.50	2023-10
ETSI TS 136509 V 17.4.0	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 17.4.0 Release 17)	33.070.50	2023-10
ETSI TS 136579-1 V 16.2.0	LTE – Mission Critical (MC) services over LTE – Part 1: Common test environment (3GPP TS 36.579-1 version 16.2.0 Release 16)	33.070.99	2023-10
ETSI TS 136579-2 V 16.2.0	LTE – Mission Critical (MC) services over LTE – Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-2 version 16.2.0 Release 16)	33.070.99	2023-10
ETSI TS 136579-4 V 16.2.0	LTE – Mission Critical (MC) services over LTE – Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4 version 16.2.0 Release 16)	33.070.99	2023-10
ETSI TS 136579-5 V 17.3.0	LTE – Mission Critical (MC) services over LTE – Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5 version 17.3.0 Release 17)	33.070.99	2023-10
ETSI TS 136579-6 V 16.2.0	LTE – Mission Critical (MC) services over LTE – Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-6 version 16.2.0 Release 16)	33.070.99	2023-10
ETSI TS 136579-7 V 16.1.0	LTE – Mission Critical (MC) services over LTE – Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-7 version 16.1.0 Release 16)	33.070.99	2023-10
ETSI TS 137104 V 15.19.0	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 15.19.0 Release 15)	33.070.50	2023-10
ETSI TS 137104 V 16.18.0	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 16.18.0 Release 16)	33.070.50	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 137104 V 17.10.0	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 17.10.0 Release 17)	33.070.50	2023-10
ETSI TS 137145-1 V 15.15.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 1: conducted conformance testing (3GPP TS 37.145-1 version 15.15.0 Release 15)	33.070.99	2023-10
ETSI TS 137145-1 V 16.14.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 1: conducted conformance testing (3GPP TS 37.145-1 version 16.14.0 Release 16)	33.070.99	2023-10
ETSI TS 137145-1 V 17.9.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 1: conducted conformance testing (3GPP TS 37.145-1 version 17.9.0 Release 17)	33.070.99	2023-10
ETSI TS 137145-2 V 15.16.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 2: radiated conformance testing (3GPP TS 37.145-2 version 15.16.0 Release 15)	33.070.99	2023-10
ETSI TS 137145-2 V 16.15.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 2: radiated conformance testing (3GPP TS 37.145-2 version 16.15.0 Release 16)	33.070.99	2023-10
ETSI TS 137145-2 V 17.9.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Active Antenna System (AAS) Base Station (BS) conformance testing – Part 2: radiated conformance testing (3GPP TS 37.145-2 version 17.9.0 Release 17)	33.070.99	2023-10
ETSI TS 137320 V 17.5.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Radio measurement collection for Minimization of Drive Tests (MDT) – Overall description – Stage 2 (3GPP TS 37.320 version 17.5.0 Release 17)	33.070.50	2023-10
ETSI TS 137340 V 16.13.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – NR – Multi-connectivity – Overall description – Stage-2 (3GPP TS 37.340 version 16.13.0 Release 16)	33.070.99	2023-10
ETSI TS 137340 V 17.6.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – NR – Multi-connectivity – Overall description – Stage-2 (3GPP TS 37.340 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 137355 V 16.12.0	LTE – 5G – LTE Positioning Protocol (LPP) (3GPP TS 37.355 version 16.12.0 Release 16)	33.070.50	2023-10
ETSI TS 137355 V 17.6.0	LTE – 5G – LTE Positioning Protocol (LPP) (3GPP TS 37.355 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 137483 V 17.6.0	5G – E1 Application Protocol (E1AP) (3GPP TS 37.483 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 137571-1 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 137571-2 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – User Equipment (UE) conformance specification for UE positioning – Part 2: Protocol conformance (3GPP TS 37.571-2 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 137571-3 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 137571-4 V 17.3.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 17.3.0 Release 17)	33.070.50	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 137571-5 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – User Equipment (UE) conformance specification for UE positioning – Part 5: Test scenarios and assistance data (3GPP TS 37.571-5 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TR 137901-5 V 16.11.0	5G – Study on 5G NR User Equipment (UE) application layer data throughput performance (3GPP TR 37.901-5 version 16.11.0 Release 16)	33.070.99	2023-10
ETSI TR 137941 V 15.4.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Radio Frequency (RF) conformance testing background for radiated Base Station (BS) requirements (3GPP TR 37.941 version 15.4.0 Release 15)	33.070.50	2023-10
ETSI TR 137941 V 16.6.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Radio Frequency (RF) conformance testing background for radiated Base Station (BS) requirements (3GPP TR 37.941 version 16.6.0 Release 16)	33.070.50	2023-10
ETSI TR 137941 V 17.2.0	Universal Mobile Telecommunications System (UMTS) – LTE – 5G – Radio Frequency (RF) conformance testing background for radiated Base Station (BS) requirements (3GPP TR 37.941 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 138101-1 V 15.23.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 15.23.0 Release 15)	33.070.99	2023-10
ETSI TS 138101-1 V 16.17.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138101-1 V 17.11.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138101-2 V 15.23.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 15.23.0 Release 15)	33.070.99	2023-10
ETSI TS 138101-2 V 16.17.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138101-2 V 17.11.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138101-3 V 15.23.0	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 15.23.0 Release 15)	33.070.99	2023-10
ETSI TS 138101-3 V 16.17.0	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 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138101-3 V 17.11.0	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 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138101-4 V 15.19.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 15.19.0 Release 15)	33.070.99	2023-10
ETSI TS 138101-4 V 16.14.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 16.14.0 Release 16)	33.070.99	2023-10
ETSI TS 138101-4 V 17.10.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 138101-5 V 17.5.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 5: Satellite access Radio Frequency (RF) and performance requirements (3GPP TS 38.101-5 version 17.5.0 Release 17)	33.070.50	2023-10
ETSI TS 138104 V 16.17.0	5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 16.17.0 Release 16)	33.070.99	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138104 V 17.11.0	5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138106 V 17.6.0	5G – NR repeater radio transmission and reception (3GPP TS 38.106 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138108 V 17.5.0	5G – NR – Satellite Access Node radio transmission and reception (3GPP TS 38.108 version 17.5.0 Release 17)	33.070.50	2023-10
ETSI TS 138113 V 15.19.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.19.0 Release 15)	33.070.99	2023-10
ETSI TS 138113 V 16.9.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 16.9.0 Release 16)	33.070.99	2023-10
ETSI TS 138113 V 17.5.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 17.5.0 Release 17)	33.070.99	2023-10
ETSI TS 138114 V 17.3.0	5G – NR – Repeaters ElectroMagnetic Compatibility (EMC) (3GPP TS 38.114 version 17.3.0 Release 17)	33.070.99	2023-10
ETSI TS 138115-1 V 17.3.0	5G – NR – Repeater conformance testing – Part 1: Conducted conformance testing (3GPP TS 38.115-1 version 17.3.0 Release 17)	33.070.50	2023-10
ETSI TS 138115-2 V 17.3.0	5G – NR – Repeater conformance testing – Part 2: Radiated conformance testing (3GPP TS 38.115-2 version 17.3.0 Release 17)	33.070.50	2023-10
ETSI TS 138133 V 15.23.0	5G – NR – Requirements for support of radio resource management (3GPP TS 38.133 version 15.23.0 Release 15)	33.070.99	2023-10
ETSI TS 138133 V 16.17.0	5G – NR – Requirements for support of radio resource management (3GPP TS 38.133 version 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138133 V 17.11.0	5G – NR – Requirements for support of radio resource management (3GPP TS 38.133 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138141-1 V 16.17.0	5G – NR – Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138141-1 V 17.11.0	5G – NR – Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138141-2 V 15.19.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 15.19.0 Release 15)	33.070.99	2023-10
ETSI TS 138141-2 V 16.17.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 16.17.0 Release 16)	33.070.99	2023-10
ETSI TS 138141-2 V 17.11.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 17.11.0 Release 17)	33.070.99	2023-10
ETSI TS 138151 V 17.5.0	5G – NR – User Equipment (UE) Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) performance requirements (3GPP TS 38.151 version 17.5.0 Release 17)	33.070.99	2023-10
ETSI TS 138171 V 17.4.0	5G – NR – Requirements for support of Assisted Global Navigation Satellite System (A-GNSS) (3GPP TS 38.171 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138174 V 16.9.0	5G – NR – Integrated Access and Backhaul (IAB) radio transmission and reception (3GPP TS 38.174 version 16.9.0 Release 16)	33.070.99	2023-10
ETSI TS 138174 V 17.5.0	5G – NR – Integrated Access and Backhaul (IAB) radio transmission and reception (3GPP TS 38.174 version 17.5.0 Release 17)	33.070.99	2023-10
ETSI TS 138175 V 16.6.0	5G – NR – Integrated Access and Backhaul (IAB) Electromagnetic Compatibility (EMC) (3GPP TS 38.175 version 16.6.0 Release 16)	33.070.99	2023-10
ETSI TS 138175 V 17.4.0	5G – NR – Integrated Access and Backhaul (IAB) Electromagnetic Compatibility (EMC) (3GPP TS 38.175 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138176-1 V 16.7.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 1: Conducted conformance testing (3GPP TS 38.176-1 version 16.7.0 Release 16)	33.070.99	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138176-1 V 17.6.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 1: Conducted conformance testing (3GPP TS 38.176-1 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138176-2 V 16.7.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 2: Radiated conformance testing (3GPP TS 38.176-2 version 16.7.0 Release 16)	33.070.99	2023-10
ETSI TS 138176-2 V 17.6.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 2: Radiated conformance testing (3GPP TS 38.176-2 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138181 V 17.2.0	5G – NR – Satellite Access Node conformance testing (3GPP TS 38.181 version 17.2.0 Release 17)	33.070.50	2023-10
ETSI TS 138202 V 17.4.0	5G – NR – Services provided by the physical layer (3GPP TS 38.202 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138211 V 17.6.0	5G – NR – Physical channels and modulation (3GPP TS 38.211 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138212 V 17.6.0	5G – NR – Multiplexing and channel coding (3GPP TS 38.212 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138213 V 16.15.0	5G – NR – Physical layer procedures for control (3GPP TS 38.213 version 16.15.0 Release 16)	33.070.99	2023-10
ETSI TS 138213 V 17.7.0	5G – NR – Physical layer procedures for control (3GPP TS 38.213 version 17.7.0 Release 17)	33.070.99	2023-10
ETSI TS 138214 V 17.7.0	5G – NR – Physical layer procedures for data (3GPP TS 38.214 version 17.7.0 Release 17)	33.070.99	2023-10
ETSI TS 138300 V 16.14.0	5G – NR – NR and NG-RAN Overall description – Stage-2 (3GPP TS 38.300 version 16.14.0 Release 16)	33.070.99	2023-10
ETSI TS 138300 V 17.6.0	5G – NR – NR and NG-RAN Overall description – Stage-2 (3GPP TS 38.300 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138304 V 17.6.0	5G – NR – User Equipment (UE) procedures in idle mode and in RRC Inactive state (3GPP TS 38.304 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138305 V 17.6.0	5G – NG Radio Access Network (NG-RAN) – Stage 2 functional specification of User Equipment (UE) positioning in NG-RAN (3GPP TS 38.305 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138306 V 15.22.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 15.22.0 Release 15)	33.070.99	2023-10
ETSI TS 138306 V 16.14.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 16.14.0 Release 16)	33.070.99	2023-10
ETSI TS 138306 V 17.6.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138321 V 16.13.0	5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 16.13.0 Release 16)	33.070.99	2023-10
ETSI TS 138321 V 17.6.0	5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138331 V 15.23.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 15.23.0 Release 15)	33.070.99	2023-10
ETSI TS 138331 V 16.14.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 16.14.0 Release 16)	33.070.99	2023-10
ETSI TS 138331 V 17.6.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138351 V 17.6.0	5G – NR – Sidelink Relay Adaptation Protocol (SRAP) Specification (3GPP TS 38.351 version 17.6.0 Release 17)	33.070.50	2023-10
ETSI TS 138401 V 15.10.0	5G – NG-RAN – Architecture description (3GPP TS 38.401 version 15.10.0 Release 15)	33.070.99	2023-10
ETSI TS 138401 V 16.11.0	5G – NG-RAN – Architecture description (3GPP TS 38.401 version 16.11.0 Release 16)	33.070.99	2023-10
ETSI TS 138401 V 17.6.0	5G – NG-RAN – Architecture description (3GPP TS 38.401 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138413 V 16.14.0	5G – NG-RAN – NG Application Protocol (NGAP) (3GPP TS 38.413 version 16.14.0 Release 16)	33.070.99	2023-10

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ETSI TS 138413 V 17.6.0	5G – NG-RAN – NG Application Protocol (NGAP) (3GPP TS 38.413 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138423 V 15.18.0	5G – NG-RAN – Xn Application Protocol (XnAP) (3GPP TS 38.423 version 15.18.0 Release 15)	33.070.99	2023-10
ETSI TS 138423 V 16.15.0	5G – NG-RAN – Xn Application Protocol (XnAP) (3GPP TS 38.423 version 16.15.0 Release 16)	33.070.99	2023-10
ETSI TS 138423 V 17.6.0	5G – NG-RAN – Xn Application Protocol (XnAP) (3GPP TS 38.423 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138463 V 15.13.0	5G – NG-RAN – E1 Application Protocol (E1AP) (3GPP TS 38.463 version 15.13.0 Release 15)	33.070.99	2023-10
ETSI TS 138463 V 16.15.0	5G – NG-RAN – E1 Application Protocol (E1AP) (3GPP TS 38.463 version 16.15.0 Release 16)	33.070.99	2023-10
ETSI TS 138470 V 16.11.0	5G – NG-RAN – F1 general aspects and principles (3GPP TS 38.470 version 16.11.0 Release 16)	33.070.99	2023-10
ETSI TS 138470 V 17.6.0	5G – NG-RAN – F1 general aspects and principles (3GPP TS 38.470 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138473 V 16.15.0	5G – NG-RAN – F1 Application Protocol (F1AP) (3GPP TS 38.473 version 16.15.0 Release 16)	33.070.99	2023-10
ETSI TS 138473 V 17.6.0	5G – NG-RAN – F1 Application Protocol (F1AP) (3GPP TS 38.473 version 17.6.0 Release 17)	33.070.99	2023-10
ETSI TS 138508-1 V 17.10.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 1: Common test environment (3GPP TS 38.508-1 version 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 138508-2 V 17.10.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 2: Common Implementation Conformance Statement (ICS) proforma (3GPP TS 38.508-2 version 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 138521-1 V 17.10.0	5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Range 1 standalone (3GPP TS 38.521-1 version 17.10.0 Release 17)	33.070.50	2023-10
ETSI TS 138521-2 V 17.4.0	5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Range 2 standalone (3GPP TS 38.521-2 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138521-3 V 17.10.0	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 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 138521-4 V 17.4.0	5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 4: Performance (3GPP TS 38.521-4 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138522 V 17.10.0	5G – NR – User Equipment (UE) conformance specification – Applicability of radio transmission, radio reception and radio resource management test cases (3GPP TS 38.522 version 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 138523-1 V 17.4.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 1: Protocol (3GPP TS 38.523-1 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138523-2 V 17.4.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 2: Applicability of protocol test cases (3GPP TS 38.523-2 version 17.4.0 Release 17)	33.070.99	2023-10
ETSI TS 138523-3 V 17.8.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 3: Protocol Test Suites (3GPP TS 38.523-3 version 17.8.0 Release 17)	33.070.99	2023-10
ETSI TS 138533 V 17.8.0	5G – NR – User Equipment (UE) conformance specification – Radio Resource Management (RRM) (3GPP TS 38.533 version 17.8.0 Release 17)	33.070.50	2023-10
ETSI TR 138817-2 V 15.11.0	5G – General aspects for Base Station (BS) Radio Frequency (RF) for NR (3GPP TR 38.817-02 version 15.11.0 Release 15)	33.070.50	2023-10
ETSI TR 138854 V 17.3.0	5G – NR support for high speed train scenario in frequency range 2 (FR2) (3GPP TR 38.854 version 17.3.0 Release 17)	33.070.50	2023-10
ETSI TR 138903 V 17.3.0	5G – NR – Derivation of test tolerances and measurement uncertainty for User Equipment (UE) conformance test cases (3GPP TR 38.903 version 17.3.0 Release 17)	33.070.99	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TR 138905 V 17.10.0	5G – NR – Derivation of test points for radio transmission and reception User Equipment (UE) conformance test cases (3GPP TR 38.905 version 17.10.0 Release 17)	33.070.99	2023-10
ETSI TS 151010-5 V 10.20.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Mobile Station (MS) conformance specification – Part 5: Inter-Radio-Access-Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS) (3GPP TS 51.010-5 version 10.20.0 Release 10)	33.070.50	2023-10
ETSI GR CIM 008 V 1.2.1	Context Information Management (CIM) – NGSI-LD Primer	35.080; 35.240.01	2023-10
ETSI GR NFV-EVE 019 V 5.1.1	Network Functions Virtualisation (NFV) Release 5 – Architectural Framework – Report on VNF generic OAM functions	35.110	2023-10
ETSI GR NFV-IFA 035 V 5.1.1	Network Functions Virtualisation (NFV) Release 5 – Architectural Framework – Report on network connectivity integration and operationalization for NFV	35.110	2023-10
ETSI GR NFV-IFA 051 V 5.1.1	Network Functions Virtualisation (NFV) Release 5 – Architectural framework – Report on VNF management gap analysis with open source projects	35.110	2023-10
ETSI GR NFV-REL 014 V 5.1.1	Network Functions Virtualisation (NFV) Release 5 – Reliability – Report on evaluating reliability for cloud-native VNFs	35.110	2023-10
ETSI GR PDL 018 V 1.2.1	Permissioned Distributed Ledger (PDL) – Redactable Distributed Ledgers	35.240.99	2023-10
ETSI GS NFV-IFA 026 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Management and Orchestration – Architecture enhancement for Security Management Specification	35.110	2023-10
ETSI GS NFV-IFA 033 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Management and Orchestration – Reference points related to Security Manager and Certificate Management Function – Interface and Information Model Specification	35.110	2023-10
ETSI GS NFV-IFA 045 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Management and Orchestration – Faults and alarms modelling specification	35.110	2023-10
ETSI GS NFV-IFA 050 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Management and Orchestration – Intent Management Service Interface and Information Model Specification	35.110	2023-10
ETSI GS NFV-SEC 021 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Security – VNF Package Security Specification	35.110	2023-10
EN 303213-5-1 V 2.1.1	Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 5: Harmonised Standard for access to radio spectrum for Multilateration (MLAT) equipment – Sub-part 1: Receivers and Interrogators	03.220.50; 49.090	2023-10
EN 303363-2 V 1.1.1	Air Traffic Control Surveillance Radar Sensors – Secondary Surveillance Radar (SSR) – Harmonised Standard for access to radio spectrum – Part 2: Far Field Monitor (FFM)	03.220.50; 33.060.99	2023-10
EN 319411-1 V 1.4.1	Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 1: General requirements	35.240.30	2023-10
EN 319411-2 V 2.5.1	Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 2: Requirements for trust service providers issuing EU qualified certificates	35.240.30	2023-10



## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC TR 30189-1	Internet of Things (IoT) – IoT-based management of tangible cultural heritage – Part 1: Framework	35.240.95	2023-10
ISO/IEC TR 30195	Internet of Things (IoT) – IoT Applications for Long-distance Oil and Gas Pipeline	35.240.95; 75.200	2023-10
IWA 43	Glass types – Crystal glass, crystal and lead crystal – Specifications and test methods	81.040.01	2023-10
ISO 68-1	ISO general purpose screw threads – Basic and design profiles – Part 1: Metric screw threads	21.040.10	2023-10
ISO 68-2	ISO general purpose screw threads – Basic and design profiles – Part 2: Inch screw threads	21.040.20	2023-10
ISO 1496-4	Series 1 freight containers – Specification and testing – Part 4: Non-pressurized containers for dry bulk	55.180.10	2023-10
ISO 2505	Thermoplastics pipes – Longitudinal reversion – Test method and parameters	23.040.20	2023-10
ISO 2811-3	Paints and varnishes – Determination of density – Part 3: Oscillation method	87.040	2023-10
ISO 3796	Ships and marine technology – Clear openings for external single-leaf doors	47.020.10	2023-10
ISO 4545-1	Metallic materials – Knoop hardness test – Part 1: Test method	77.040.10	2023-10
ISO 4628-6	Paints and varnishes – Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 6: Assessment of degree of chalking by tape method	87.040	2023-10
ISO 4722-1	Water quality – Thorium 232 – Part 1: Test method using alpha spectrometry	13.060.60; 17.240	2023-10
ISO 4773	Non-destructive testing – Ultrasonic guided-wave testing using the phased-array technique	19.100	2023-10
ISO 4865-1	Dentistry – General requirements of hand instruments – Part 1: Non-hinged hand instruments	11.060.20	2023-10
ISO 4904	Traditional Chinese medicine – Inner pack of decoction pieces	11.020.99	2023-10
ISO 5286	Flight performance of civil small and light fixed-wing unmanned aircraft systems (UAS) – Test methods	49.020	2023-10
ISO 5312	Civil small and light unmanned aircraft (UA) – Sharp injury to human body by rotor blades – Evaluation and test method	49.020	2023-10
ISO 5332	Civil small and light unmanned aircraft systems (UAS) under low-pressure conditions – Test methods	49.020	2023-10
ISO/TS 5387	Nanotechnologies – Lung burden mass measurement of nanomaterials for inhalation toxicity tests	7.120	2023-10
ISO 5533	Textiles – Quantification of carbon fibre constituent element – Elemental analyser method	59.060.01	2023-10
ISO/TS 5569	Health informatics – Conceptual data model for Chinese medicinal herbs	35.240.80	2023-10
ISO/IEC TR 6114	Cybersecurity – Security considerations throughout the product life cycle	35.030	2023-10
ISO/DTR 6277	Blockchain and distributed ledger technologies – Data flow models for blockchain and DLT use cases	35.030; 35.240.40; 35.240.99	2023-10
ISO 6507-1	Metallic materials – Vickers hardness test – Part 1: Test method	77.040.10	2023-10
ISO 6650	Fertilizers, soil conditioners and beneficial substances – Simultaneous determination of N-(n-Butyl) thiophosphoric triamide and dicyandiamide by high-performance liquid chromatography	65.080	2023-10
ISO 6819	Steel wire rod for bridge cable wire	77.140.65; 93.040	2023-10
ISO/TR 6832	Space systems – Development technology of a thermal vacuum chamber	49.140	2023-10
ISO 7101	Healthcare organization management – Management systems for quality in healthcare organizations – Requirements	03.100.70; 11.020.01	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/TR 7250-4	Basic human body measurements for technological design – Part 4: Expected performance of skilled anthropometrists	13.180	2023-10
ISO 7251 AMD 1	Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> – Most probable number technique – Amendment 1: Inclusion of performance testing of culture media and reagents	07.100.30	2023-10
ISO 7450	Traditional Chinese medicine – <i>Pinellia ternata</i> tuber	11.120.10	2023-10
ISO 8024	Concentrated black mulberry juice – Specifications	67.160.20	2023-10
ISO 8181	Atomic layer deposition – Vocabulary	01.040.25; 25.220.01	2023-10
ISO 8549-2	Prosthetics and orthotics – Vocabulary – Part 2: Terms relating to external limb prostheses	01.040.11; 11.040.40	2023-10
ISO 9012	Gas welding equipment – Air-aspirated hand blowpipes – Specifications and tests	25.160.30	2023-10
ISO 9322	Material used for producing wrappings for cigarette filters, cigarettes and other tobacco products – Determination of acetate and citrate content – Ion chromatographic method	65.160	2023-10
ISO 9584	Implants for surgery – Non-destructive testing – Radiographic examination of cast metallic surgical implants	11.040.40	2023-10
ISO 9813	Corrosion of metals and alloys – Performance test method for corrosion inhibitors used in chemical cleaning of industry equipment	77.060	2023-10
ISO/IEC 10373-1 AMD 1	Cards and security devices for personal identification – Test methods – Part 1: General characteristics – Amendment 1: Clarification of peel strength test method to be used for ISO/IEC 7810 conformance testing	35.240.15	2023-10
ISO 10425	Steel wire ropes for the petroleum and natural gas industries – Minimum requirements and terms of acceptance	75.180.10; 77.140.65	2023-10
ISO 10524-1 AMD 1	Pressure regulators for use with medical gases – Part 1: Pressure regulators and pressure regulators with flow-metering devices – Amendment 1	11.040.10	2023-10
ISO 10534-2	Acoustics – Determination of acoustic properties in impedance tubes – Part 2: Two-microphone technique for normal sound absorption coefficient and normal surface impedance	17.140.01	2023-10
ISO 11158	Lubricants, industrial oils and related products (class L) – Family H (hydraulic systems) – Specifications for categories HH, HL, HM, HV and HG	75.120	2023-10
ISO 11855-3 AMD 1	Building environment design – Embedded radiant heating and cooling systems – Part 3: Design and dimensioning – Amendment 1	91.040.01	2023-10
ISO 11855-4 AMD 1	Building environment design – Embedded radiant heating and cooling systems – Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS) – Amendment 1	91.040.01	2023-10
ISO 11855-5 AMD 1	Building environment design – Embedded radiant heating and cooling systems – Part 5: Installation – Amendment 1	91.040.01	2023-10
ISO 12164-1	Hollow taper interface with flange contact surface – Part 1: Shanks of types A, AB, C, CB and EB	25.060.20	2023-10
ISO 12164-2	Hollow taper interface with flange contact surface – Part 2: Receivers of types A, C and E for hollow taper shanks of types A, AB, C, CB and EB	25.060.20	2023-10
ISO 12164-3	Hollow taper interface with flange contact surface – Part 3: Shanks of types T, TA and U	25.060.20	2023-10
ISO 12164-4	Hollow taper interface with flange contact surface – Part 4: Receivers of types T and U for hollow taper shanks of types T, TA and U	25.060.20	2023-10
ISO 12164-5	Hollow taper interface with flange contact surface – Part 5: Shanks of types AS, CS and ES	25.060.20	2023-10
ISO 12164-6	Hollow taper interface with flange contact surface – Part 6: Receivers of types AS, CS and ES for hollow taper shanks of types AS, CS and ES	25.060.20	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 12736-1	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 1: Validation of materials and insulation systems	25.220.20; 75.180.10	2023-10
ISO 12736-2	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 2: Qualification processes for production and application procedures	25.220.20; 75.180.10	2023-10
ISO 12736-3	Oil and gas industries including lower carbon energy – Wet thermal insulation systems for pipelines and subsea equipment – Part 3: Interfaces between systems, field joint systems, field repairs and pre-fabricated insulation	25.220.20; 75.180.10	2023-10
ISO 13105-1	Building construction machinery and equipment – Machinery for concrete surface floating and finishing – Part 1: Commercial specifications	01.040.91; 91.220	2023-10
ISO 13105-2	Building construction machinery and equipment – Machinery for concrete surface floating and finishing – Part 2: Safety requirements and verification	13.110; 91.220	2023-10
ISO 13703-2	Oil and gas industries including lower carbon energy – Piping systems on offshore platforms and onshore plants – Part 2: Materials	75.180.10	2023-10
ISO 14126	Fibre-reinforced plastic composites – Determination of compressive properties in the in-plane direction	83.120	2023-10
ISO/IEC 14496-15 AMD 1	Information technology – Coding of audio-visual objects – Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format – Amendment 1: Support for LCEVC	35.040.40	2023-10
ISO 14624-1	Space systems – Safety and compatibility of materials – Part 1: Determination of upward flammability of materials	13.220.40; 49.025.01; 49.140	2023-10
ISO 14624-2	Space systems – Safety and compatibility of materials – Part 2: Determination of flammability of electrical-wire insulation and accessory materials	13.220.40; 49.025.01; 49.140	2023-10
ISO 14624-3	Space systems – Safety and compatibility of materials – Part 3: Determination of off-gassed compounds from materials and assembled articles	49.025.01; 49.140	2023-10
ISO 14644-18	Cleanrooms and associated controlled environments – Part 18: Assessment of suitability of consumables	13.040.35	2023-10
ISO 15380	Lubricants, industrial oils and related products (class L) – Family H (Hydraulic systems) – Specifications for hydraulic fluids in categories HETG, HEPG, HEES and HEPR	75.100	2023-10
ISO/IEC 15444-8	Information technology – JPEG 2000 image coding system – Part 8: Secure JPEG 2000	35.040.30	2023-10
ISO 16143-4	Stainless steels for general purposes – Part 4: Bright products	77.140.20	2023-10
ISO 16486-6	Plastics piping systems for the supply of gaseous fuels – Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing – Part 6: Code of practice for design, handling and installation	75.200; 83.140.30	2023-10
ISO/TR 16610-32	Geometrical product specifications (GPS) – Filtration – Part 32: Robust profile filters: Spline filters	17.040.20; 17.040.40	2023-10
ISO 17294-2	Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of selected elements including uranium isotopes	13.060.50	2023-10
ISO 18475	Environmental solid matrices – Determination of polychlorinated biphenyls (PCB) by gas chromatography – mass selective detection (GC-MS) or electron-capture detection (GC-ECD)	13.080.10	2023-10
ISO 19711-2	Building construction machinery and equipment – Truck mixers – Part 2: Safety requirements	91.220	2023-10
ISO/IEC 20237	Information technology – Sparkplug® version 3.0	35.020	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 20505	Fine ceramics (advanced ceramics, advanced technical ceramics) – Mechanical properties of ceramic composites at room temperature – Determination of the interlaminar shear strength and shear modulus of continuous-fibre-reinforced composites by the compression of double-notched test pieces and by the Iosipescu test	81.060.30	2023-10
ISO 21127	Information and documentation – A reference ontology for the interchange of cultural heritage information	35.240.30	2023-10
ISO 21384-3	Unmanned aircraft systems – Part 3: Operational procedures	49.020	2023-10
ISO 22241-4	Diesel engines – NOx reduction agent AUS 32 – Part 4: Refilling interface	43.060.40	2023-10
ISO/IEC 23003-4 AMD 2	Information technology – MPEG audio technologies – Part 4: Dynamic range control – Amendment 2: Loudness leveling	35.040.40	2023-10
ISO/IEC 23090-23	Information technology – Coded representation of immersive media – Part 23: Conformance and reference software for MPEG immersive video	35.040.40	2023-10
ISO 23316-5	Tractors and machinery for agriculture and forestry – Electrical high-power interface 700 V DC / 480 V AC – Part 5: DC operation mode	65.060.10	2023-10
ISO 23447	Healthcare organization management – Hand hygiene performance	11.020.01	2023-10
ISO 23551-5	Safety and control devices for gas burners and gas-burning appliances – Particular requirements – Part 5: Manual gas valves	27.060.20	2023-10
ISO 23551-12	Safety and control devices for gas burners and gas-burning appliances – Particular requirements – Part 12: Multifunctional controls with integral overpressure protection safety function (OPSF) for use with butane gas cartridges used in portable gas appliances	27.060.20	2023-10
ISO 24065	Aerospace – High-power solid-state power controller – General performance requirements	49.060	2023-10
ISO 24118-1	Paper and board – Stylus contact method – Part 1: Determination of surface roughness	85.060	2023-10
ISO 24202	Oil and gas industries including lower carbon energy – Bulk material for offshore projects – Monorail beam and padeye	75.180.10	2023-10
ISO 24227	Validation protocol for walking speed as extracted from various sensor systems that measure human body motion for the healthcare sector	13.180	2023-10
ISO 24382	Bee pollen – Specifications	65.140	2023-10
ISO 24419-1	Mine closure and reclamation – Managing mining legacies – Part 1: Requirements and recommendations	73.020	2023-10
ISO/TR 24419-2	Mine closure and reclamation – Managing mining legacies – Part 2: Case studies and bibliography	73.020	2023-10
ISO 24807	Recreational diving services – Requirements for rebreather diver training – Decompression diving to 100 m	03.080.30; 03.100.30; 03.200.99	2023-10
ISO 25457	Oil and gas industries including lower carbon energy – Flare details for general refinery and petrochemical service	75.180.20	2023-10
ISO 25745-2 AMD 1	Energy performance of lifts, escalators and moving walks – Part 2: Energy calculation and classification for lifts (elevators) – Amendment 1: Express zones	91.140.90	2023-10
ISO 26910-1	Springs – Shot peening – Part 1: General procedures	21.160	2023-10
ISO 27025	Space systems – Programme management – Product quality assurance requirements	49.140	2023-10
ISO/IEC 29102	Information technology – Office equipment – Method for the determination of ink cartridge yield for colour photo printing with inkjet printers and multi-function devices that contain inkjet printer components	37.100.10	2023-10
ISO 29301	Microbeam analysis – Analytical electron microscopy – Methods for calibrating image magnification by using reference materials with periodic structures	37.020	2023-10
ISO/IEC 30108-2	Biometrics – Identity attributes verification services – Part 2: RESTful specification	35.240.15	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/TS 31050	Risk management – Guidelines for managing an emerging risk to enhance resilience	03.100.01	2023-10
ISO 34000	Date and time – Vocabulary	01.040.01; 01.140.30	2023-10
ISO 37173	Smart community infrastructure – Guidance for the development of smart building information systems	13.020.20	2023-10
ISO 37183	Smart community infrastructures – Smart transportation by facial recognition payment (f-payment)	03.220.20; 13.020.20	2023-10
ISO/TS 44006	Collaborative business relationship management – Guidelines for university-business collaboration	03.100.01; 03.180	2023-10

## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC Guide 120	Security aspects – Guidelines for their inclusion in publications	01.120; 35.030	2023-10
IEC/TR 63530	Market Catalogue for Stable Grid Operation	29.240.99	2023-10
IEC/TR 62839-1	Environmental declaration – Part 1: Communication wires and cables – Product specific rules	33.120.10	2023-10
IEC/TR 61850-80-5	Communication networks and systems for power utility automation – Part 80-5: Guideline for mapping information between IEC 61850 and IEC 61158-15	33.040.40; 33.200	2023-10
IEC/TR 61760-5-1	Surface mounting technology – Part 5-1: Surface strain on circuit boards – Strain gauge measurement applied to chip components	31.180	2023-10
IEC/TR 62669	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	13.280; 17.240; 33.070.01	2023-10
IEC/TR 62500	Process management for avionics – Highly severe stress tests for operating margins identification and robustness improvement of avionics equipment – Application guide	49.090	2023-10
IEC/TR 62595-1-6	Display light unit – Part 1-6: Quantum dot films and quantum dot diffuser plates used in backlight unit	31.120	2023-10
IEC 60050-871 AMD 1	International Electrotechnical Vocabulary (IEV) – Part 871: Active assisted living (AAL); Amendment 1	01.040.11; 01.040.29; 01.040.97; 11.020.10; 11.180.01; 97.120	2023-10
IEC 60079-31 Corrigendum 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"; Corrigendum 1	29.260.20	2023-10
IEC 60127-1	Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	01.040.29; 29.120.50	2023-10
IEC 60127-6	Miniature fuses – Part 6: Fuse-holders for miniature fuse-links	29.120.50	2023-10
IEC 60393-4	Potentiometers for use in electronic equipment – Part 4: Sectional specification: Single-turn rotary power potentiometers	31.040.20	2023-10
IEC 60601-2-50 AMD 1	Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment; Amendment 1	11.040.60; 11.040.99	2023-10
IEC 60601-2-50 Edition 3.1	Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment	11.040.60	2023-10
IEC 60704-2-13	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-13: Particular requirements for cooking fume extractors	17.140.20; 97.040.20	2023-10
IEC 60721-2-6 Corrigendum 1	Classification of environmental conditions – Part 2-6: Environmental conditions appearing in nature – Earthquake vibration and shock; Corrigendum 1	19.040	2023-10
IEC 60730-2-5 Corrigendum 1	Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems; Corrigendum 1	97.120	2023-10
IEC 60966-3	Radio frequency and coaxial cable assemblies – Part 3: Sectional specification for semi-flexible coaxial cable assemblies	33.120.10	2023-10
IEC 60966-3-1	Radio frequency and coaxial cable assemblies – Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies	33.120.10	2023-10
IEC 61095	Electromechanical contactors for household and similar purposes	29.120.99; 29.130.20	2023-10
IEC 61196-8-1	Coaxial communication cables – Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric	33.120.10	2023-10
IEC 61196-9-1	Coaxial communication cables – Part 9-1: Blank detail specification for flexible RF coaxial cables	33.120.10	2023-10
IEC/TS 61340-6-2	Electrostatics – Part 6-2: Electrostatic control in healthcare, commercial and public facilities – Public spaces and office areas	17.220.20; 17.220.99; 29.020	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
IEC 61439-4	Low-voltage switchgear and controlgear assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)	29.130.20	2023-10
IEC 61442	Test methods for accessories for power cables with rated voltages from 6 kV ( $U_m = 7,2$ kV) up to 36 kV ( $U_m = 42$ kV)	19.080; 29.060.20	2023-10
IEC/TS 61496-5 Corrigendum 1	Safety of machinery – Electro-sensitive protective equipment – Part 5: Particular requirements for radar-based protective devices; Corrigendum 1	13.110	2023-10
IEC 61523-1	Delay and power calculation standards – Part 1: Integrated Circuit (IC) Open Library Architecture (OLA)	25.040.01; 31.200; 35.060	2023-10
IEC 61523-4	Delay and power calculation standards – Part 4: Design and Verification of Low-Power, Energy-Aware Electronic Systems	25.040.01; 31.200; 35.060	2023-10
IEC 61691-1-1	Behavioural languages – Part 1-1: VHDL Language Reference Manual	25.040.01; 35.060; 35.080	2023-10
IEC 61753-021-02	Fibre optic interconnecting devices and passive components – Performance standard – Part 021-02: Single-mode fibre optic connectors terminated as pigtails and patchcords for category C – Controlled environment	33.180.20	2023-10
IEC 61753-021-06	Fibre optic interconnecting devices and passive components – Performance standard – Part 021-06: Single-mode fibre optic connectors terminated as pigtails and patchcords for category OP+ – Extended outdoor protected environment	33.180.20	2023-10
IEC 61800-9-2	Adjustable speed electrical power drive systems (PDS) – Part 9-2: Ecodesign for motor systems – Energy efficiency determination and classification	29.130.01; 29.160.30; 29.200	2023-10
IEC 61820-3-2	Electrical installations for lighting and beaconing of aerodromes – Part 3-2: Requirements for power supplies – Particular requirements for series circuits	29.140.50; 93.120	2023-10
IEC/TR 61869-100 Corrigendum 1	Instrument transformers – Part 100: Guidance for application of current transformers in power system protection; Corrigendum 1	17.220.20	2023-10
IEC 62282-4-202	Fuel cell technologies – Part 4-202: Fuel cell power systems for propulsion and auxiliary power units – Unmanned aircrafts – Performance test methods	27.070; 49.020	2023-10
IEC/TR 62285	Application guidelines for nonlinear coefficient measuring methods	33.180.10	2023-10
IEC 62530-2	SystemVerilog – Part 2: Universal Verification Methodology Language Reference Manual	25.040.01; 35.060	2023-10
IEC 62561-4	Lightning protection system components (LPSC) – Part 4: Requirements for conductor fasteners	29.020; 91.120.40	2023-10
IEC/TS 62607-8-3	Nanomanufacturing – Key Control Characteristics – Part 8-3: Nano-enabled metal-oxide interfacial devices – Analogue resistance change and resistance fluctuation: Electrical resistance measurement	07.030; 07.120	2023-10
IEC 62631-3-2	Dielectric and resistive properties of solid insulating materials – Part 3-2: Determination of resistive properties (DC methods) – Surface resistance and surface resistivity	17.220.99; 29.035.01	2023-10
IEC/ASTM 62885-6	Surface cleaning appliances – Part 6: Wet hard floor cleaning appliances for household or similar use – Methods for measuring the performance	97.080	2023-10
IEC 62933-5-3	Electrical energy storage (EES) systems – Part 5-3: Safety requirements for grid-integrated EES systems – Performing unplanned modification of electrochemical based system	13.020.30; 27.010	2023-10
IEC 63055	Format for LSI-Package-Board Interoperable design	31.180; 31.200; 35.060	2023-10
IEC 63138-2	Multi-channel radio-frequency connectors – Part 2: Sectional specification for MQ4 series circular connectors	33.120.30	2023-10
IEC/TS 63189-2	Virtual Power Plants – Part 2: Use Cases	27.100; 29.240.01; 35.240.50	2023-10

Oznaka norme	Naslov norme	ICS	Datum objave
IEC 63203-201-2 Corrigendum 1	Wearable electronic devices and technologies – Part 201-2: Electronic textile – Measurement methods for basic properties of conductive fabrics and insulation materials; Corrigendum 1	59.080.80	2023-10
IEC 63203-401-1	Wearable electronic devices and technologies – Part 401-1: Devices and systems: functional elements – Evaluation method of the stretchable resistive strain sensor	31.020; 31.080.99; 59.080.80	2023-10
IEC 63215-2	Endurance test methods for die attach materials – Part 2: Temperature cycling test method for die attach materials applied to discrete type power electronic devices	31.190	2023-10
IEC/TS 63222-2	Power quality management – Part 2: Power Quality Monitoring System	29.020; 29.240.01	2023-10
IEC SRD 63456	Navigation tools for smart manufacturing	25.040.01; 35.240.50	2023-10
IEC/PAS 63485	Intelligent Information Request and Delivery – A process model for the exchange of information for use	01.040.01; 01.110; 35.240.01	2023-10
IEC 63501-2416	Power Modeling to Enable System Level Analysis	25.040.01; 31.200; 35.060	2023-10
IEC 63504-2804	Software-Hardware Interface for Multi-Many-Core	25.040.01; 35.060; 35.200	2023-10
ISO/IEC TR 30189-1	Internet of Things (IoT) – IoT-based management of tangible cultural heritage – Part 1: Framework	35.240.95	2023-10
ISO/IEC TR 30195	Internet of Things (IoT) – IoT Applications for Long-distance Oil and Gas Pipeline	35.240.95; 75.200	2023-10
ISO/IEC TR 6114	Cybersecurity – Security considerations throughout the product life cycle	35.030	2023-10
ISO/IEC 10373-1 AMD 1	Cards and security devices for personal identification – Test methods – Part 1: General characteristics – Amendment 1: Clarification of peel strength test method to be used for ISO/IEC 7810 conformance testing	35.240.15	2023-10
ISO/IEC 14496-15 AMD 1	Information technology – Coding of audio-visual objects – Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format – Amendment 1: Support for LCEVC	35.040.40	2023-10
ISO/IEC 15444-8	Information technology – JPEG 2000 image coding system – Part 8: Secure JPEG 2000	35.040.30	2023-10
ISO/IEC 20237	Information technology – Sparkplug <sup>®</sup> version 3.0	35.020	2023-10
ISO/IEC 23003-4 AMD 2	Information technology – MPEG audio technologies – Part 4: Dynamic range control – Amendment 2: Loudness leveling	35.040.40	2023-10
ISO/IEC 23090-23	Information technology – Coded representation of immersive media – Part 23: Conformance and reference software for MPEG immersive video	35.040.40	2023-10
ISO/IEC 29102	Information technology – Office equipment – Method for the determination of ink cartridge yield for colour photo printing with inkjet printers and multi-function devices that contain inkjet printer components	37.100.10	2023-10
ISO/IEC 30108-2	Biometrics – Identity attributes verification services – Part 2: RESTful specification	35.240.15	2023-10
ISO/IEC DTR 5469	Artificial intelligence – Functional safety and AI systems	35.020	2023-10