

# 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

## Sadržaj:

<b>1</b>	<b>Rezultati hrvatske normizacije</b>	A3
1.1	Hrvatske norme	A3
1.2	Nacrti hrvatskih norma	
1.3	Prijedlozi za prihvaćanje stranih norma u izvorniku	A10
1.4	Povučene hrvatske norme	A14
1.5	Povučeni nacrti hrvatskih norma	
1.6	Ispravci hrvatskih norma	A21
1.7	Naslovi objavljenih hrvatskih norma na hrvatskome jeziku	A23
1.8	Drugi normativni dokumenti	
1.9	Opća izdanja HZN-a	
1.10	Prijevod hrvatskih normativnih dokumenata	A28
<b>2</b>	<b>Rezultati međunarodne i europske normizacije</b>	A29

# 1 Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

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

Hrvatske norme mogu nastati na ova četiri načina:

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

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

### HZN/TO 5, Metalne cijevi i priključci

HRN EN 14525:2022 en pr  
Duktilne željezne i čelične širokotolerantne spojnice i prirubnički priključci za upotrebu kod cijevi iz različitih materijala: duktilno željezo, sivi lijev, čelik, PVC-U, PVC-O, PE, cement ojačan vlaknima (EN 14525:2022)  
Ductile iron and steel wide tolerance couplings and flange adaptors for use with pipes of different materials: ductile iron, Grey iron, steel, PVC-U, PVC-O, PE, fibre-cement (EN 14525:2022)

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

HRN EN ISO 12625-4:2022 en pr  
Tanki upijajući papir (tissue) i proizvodi od tankoga upijajućeg papira – 4. dio: Određivanje vlačne čvrstoće, izduženja pri maksimalnoj sili i utrošene energije pri kidanju (ISO 12625-4:2022; EN ISO 12625-4:2022)  
Tissue paper and tissue products – Part 4: Determination of tensile strength, stretch at maximum force and tensile energy absorption (ISO 12625-4:2022; EN ISO 12625-4:2022)

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

HRN EN ISO 13736:2021/A1:2022 en pr  
Određivanje točke paljenja – Abelova metoda zatvorene posude – Amandman 1: Posuvremenjena izjava o odstupanju (ISO 13736:2021/Amd 1:2022; EN ISO 13736:2021/A1:2022)  
Determination of flash point – Abel closed-cup method – Amendment 1: Bias statement update (ISO 13736:2021/Amd 1:2022; EN ISO 13736:2021/A1:2022)

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

HRN ISO 6079:2022 en pr  
Instant-čaj u krutom obliku – Specifikacija (ISO 6079:2021)  
Instant tea in solid form – Specification (ISO 6079:2021)

HRN ISO 7305:2022 en pr  
Mljeveni proizvodi od žitarica – Određivanje kiselosti masti (ISO 7305:2019)  
Milled cereal products – Determination of fat acidity (ISO 7305:2019)

HRN ISO 22003-1:2022 en pr  
Sigurnost hrane – 1. dio: Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja sigurnošću hrane (ISO 22003-1:2022)  
Food safety – Part 1: Requirements for bodies providing audit and certification of food safety management systems (ISO 22003-1:2022)

HRN ISO 22003-2:2022 en pr  
Sigurnost hrane – 2. dio: Zahtjevi za tijela koja provode vrednovanje i certifikaciju proizvoda, procesa i usluga, uključujući audit sustava sigurnosti hrane (ISO 22003-2:2022)  
Food safety – Part 2: Requirements for bodies providing evaluation and certification of products, processes and services, including an audit of the food safety system (ISO 22003-2:2022)

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

HRN EN ISO 17636-2:2022 en pr  
Nerazorno ispitivanje zavara – Radiografsko ispitivanje – 2. dio: Tehnike snimanja rendgenom i izotopom primjenom digitalnih detektora (ISO 17636-2:2022; EN ISO 17636-2:2022)  
Non-destructive testing of welds – Radiographic testing – Part 2: X- and gamma-ray techniques with digital detectors (ISO 17636-2:2022; EN ISO 17636-2:2022)

### HZN/TO 54, Eterična ulja

HRN ISO 3518:2022 en pr  
Eterično ulje sandalova drveta (Santum album L.) (ISO 3518:2022)  
Essential oil of sandalwood (Santalum album L.) (ISO 3518:2022)

HRN ISO 3520:2022 en pr  
Eterično ulje bergamota, hladno tiješteno [Citrus bergamia Risso et Poit], kalabrijski tip (ISO 3520:2022)  
Essential oil of bergamot [Citrus bergamia Risso et Poit], Calabrian type (ISO 3520:2022)

HRN ISO 22769:2022 en pr  
Eterično ulje australskog sandalova drveta [Santalum spicatum (R.Br.) A.D.C.] (ISO 22769:2022)  
Essential oil of Australian sandalwood [Santalum spicatum (R.Br.) A.D.C.] (ISO 22769:2022)

### HZN/TO 92, Zaštita od požara

HRN EN 1366-10:2022 en pr  
Ispitivanja otpornosti na požar servisnih instalacija – 10. dio: Zaklopke za upravljanje dimom (EN 1366-10:2022)  
Fire resistance tests for service installations – Part 10: Smoke control dampers (EN 1366-10:2022)

HRN EN 15269-20:2020/Ispr.1:2022 en pr  
Proširena primjena rezultata ispitivanja otpornosti na požar i/ili dimopropusnosti vrata, zaslona i prozora koji se mogu otvarati, uključujući pripadajući okov – 20. dio: Dimopropusnost vrata, zaslona, zavjesa od tkanine koje se otvaraju i prozora koji se mogu otvarati (EN 15269-20:2020/AC:2022)  
Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 20: Smoke control for doors, shutters, operable fabric curtains and openable windows (EN 15269-20:2020/AC:2022)

HRN EN 15882-2:2022 en pr  
Proširena primjena rezultata ispitivanja otpornosti na požar servisnih instalacija – 2. dio: Protupožarne zaklopke (EN 15882-2:2022)  
Extended application of results from fire resistance tests for service installations – Part 2: Fire dampers (EN 15882-2:2022)

### HZN/TO 135, Nerazorna ispitivanja

HRN EN ISO 18563-1:2022 en pr  
Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 1. dio: Instrumenti (ISO 18563-1:2022; EN ISO 18563-1:2022)  
Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 1: Instruments (ISO 18563-1:2022; EN ISO 18563-1:2022)

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

HRN EN 1852-1:2022 en pr  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 1852-1:2018+A1:2022)  
Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 1: Specifications for pipes, fittings and the system (EN 1852-1:2018+A1:2022)

## HZN/TO 146, Kvaliteta zraka

HRN EN ISO 13137:2022 en pr  
Atmosfera radnih prostora – Pumpe za osobno uzorkovanje kemijskih i bioloških agensa – Zahtjevi i metode ispitivanja (ISO 13137:2022; EN ISO 13137:2022)  
Workplace atmospheres – Pumps for personal sampling of chemical and biological agents – Requirements and test methods (ISO 13137:2022; EN ISO 13137:2022)

HRS CEN/TS 17458:2022 en pr  
Vanjski zrak – Metodologija procjene učinkovitosti aplikacija za receptorsko modeliranje raspodjele izvora lebdećih čestica u zraku (CEN/TS 17458:2020)  
Ambient air – Methodology to assess the performance of receptor oriented source apportionment modelling applications for particulate matter (CEN/TS 17458:2020)

HRS CEN/TS 17660-1:2022 en pr  
Kvaliteta zraka – Vrednovanje učinkovitosti senzorskih sustava za praćenje kvalitete zraka – 1. dio: Plinovite onečišćujuće tvari u vanjskom zraku (CEN/TS 17660-1:2021)  
Air quality – Performance evaluation of air quality sensor systems – Part 1: Gaseous pollutants in ambient air (CEN/TS 17660-1:2021)

## HZN/TO 147, Kvaliteta vode

HRN EN ISO 19040-1:2022 en pr  
Kvaliteta vode – Određivanje estrogenog potencijala vode i otpadne vode – 1. dio: Test estrogenosti pomoću kvasca (*Saccharomyces cerevisiae*) (ISO 19040-1:2018; EN ISO 19040-1:2022)  
Water quality – Determination of the estrogenic potential of water and waste water – Part 1: Yeast estrogen screen (*Saccharomyces cerevisiae*) (ISO 19040-1:2018; EN ISO 19040-1:2022)

HRN EN ISO 19040-2:2022 en pr  
Kvaliteta vode – Određivanje estrogenog potencijala vode i otpadne vode – 2. dio: Test estrogenosti pomoću kvasca (*A-YES*, *Arxula adenivorans*) (ISO 19040-2:2018; EN ISO 19040-2:2022)  
Water quality – Determination of the estrogenic potential of water and waste water – Part 2: Yeast estrogen screen (*A-YES*, *Arxula adenivorans*) (ISO 19040-2:2018; EN ISO 19040-2:2022)

HRN EN ISO 19040-3:2022 en pr  
Kvaliteta vode – Određivanje estrogenog potencijala vode i otpadne vode – 3. dio: In vitro ispitivanje pomoću reporterskog gena na ljudskim stanicama (ISO 19040-3:2018; EN ISO 19040-3:2022)  
Water quality – Determination of the estrogenic potential of water and waste water – Part 3: In vitro human cell-based reporter gene assay (ISO 19040-3:2018; EN ISO 19040-3:2022)

## HZN/TO 163, Toplinska izolacija

HRN EN ISO 9288:2022 en pr  
Toplinska izolacija – Prijenos topline zračenjem – Terminološki rječnik (ISO 9288:2022; EN ISO 9288:2022)  
Thermal insulation – Heat transfer by radiation – Vocabulary (ISO 9288:2022; EN ISO 9288:2022)

HRN EN ISO 29768:2022 en pr  
Toplinsko-izolacijski proizvodi za primjenu u građevinarstvu – Određivanje linearnih izmjera uzoraka (ISO 29768:2022; EN ISO 29768:2022)  
Thermal insulating products for building applications – Determination of linear dimensions of test specimens (ISO 29768:2022; EN ISO 29768:2022)

## HZN/TO 196, Prirodni kamen

HRN EN 16306:2022 en pr  
Metode ispitivanja prirodnog kamena – Određivanje otpornosti mramora na cikluse topline i vlage (EN 16306:2022)  
Natural stone test methods – Determination of resistance of marble to thermal and moisture cycles (EN 16306:2022)

## HZN/TO 215, Zdravstvena informatika

HRN EN ISO 11615:2018/A1:2022 en pr  
Zdravstvena informatika – Identifikacija lijekova – Elementi i strukture podataka za jedinstvenu identifikaciju i razmjenu propisanih informacija o lijeku (ISO 11615:2017/Amd 1:2022; EN ISO 11615:2017/A1:2022)  
Health informatics – Identification of medicinal products – Data elements and structures for the unique identification and exchange of regulated medicinal product information (ISO 11615:2017/Amd 1:2022; EN ISO 11615:2017/A1:2022)

## HZN/TO 217, Kozmetika

HRN EN ISO 11930:2019/A1:2022 en pr  
Kozmetika – Mikrobiologija – Procjena antimikrobne zaštite kozmetičkog proizvoda (ISO 11930:2019/Amd 1:2022; EN ISO 11930:2019/A1:2022)  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2019/Amd 1:2022; EN ISO 11930:2019/A1:2022)

HRN EN ISO 16212:2017/A1:2022 en pr  
Kozmetika – Mikrobiologija – Određivanje broja kvasaca i plijesni (ISO 16212:2017/Amd 1:2022; EN ISO 16212:2017/A1:2022)  
Cosmetics – Microbiology – Enumeration of yeast and mould (ISO 16212:2017/Amd 1:2022; EN ISO 16212:2017/A1:2022)

HRN EN ISO 18415:2017/A1:2022 en pr  
Kozmetika – Mikrobiologija – Dokazivanje specifičnih i nespecifičnih mikroorganizama (ISO 18415:2017/Amd 1:2022; EN ISO 18415:2017/A1:2022)  
Cosmetics – Microbiology – Detection of specified and non-specified microorganisms (ISO 18415:2017/Amd 1:2022; EN ISO 18415:2017/A1:2022)

HRN EN ISO 21149:2017/A1:2022 en pr  
Kozmetika – Mikrobiologija – Određivanje broja i dokazivanje aerobnih mezofilnih bakterija (ISO 21149:2017/Amd 1:2022; EN ISO 21149:2017/A1:2022)  
Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria (ISO 21149:2017/Amd 1:2022; EN ISO 21149:2017/A1:2022)

HRN EN ISO 21150:2016/A1:2022 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije *Escherichia coli* (ISO 21150:2015/Amd 1:2022; EN ISO 21150:2015/A1:2022)  
Cosmetics – Microbiology – Detection of *Escherichia coli* (ISO 21150:2015/Amd 1:2022; EN ISO 21150:2015/A1:2022)

HRN EN ISO 22717:2016/A1:2022 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije *Pseudomonas aeruginosa* (ISO 22717:2015/Amd 1:2022; EN ISO 22717:2015/A1:2022)  
Cosmetics – Microbiology – Detection of *Pseudomonas aeruginosa* (ISO 22717:2015/Amd 1:2022; EN ISO 22717:2015/A1:2022)

HRN EN ISO 22718:2016/A1:2022 en pr  
Kozmetika – Mikrobiologija – Dokazivanje bakterije *Staphylococcus aureus* (ISO 22718:2015/Amd 1:2022; EN ISO 22718:2015/A1:2022)  
Cosmetics – Microbiology – Detection of *Staphylococcus aureus* (ISO 22718:2015/Amd 1:2022; EN ISO 22718:2015/A1:2022)

HRN EN ISO 23674:2022 en pr  
Kozmetika – Analitičke metode – Direktno određivanje tragova žive u kozmetici tehnikom termičke razgradnje i atomske apsorpcijske spektrometrije (analizator žive) (ISO 23674:2022; EN ISO 23674:2022)  
Cosmetics – Analytical methods – Direct determination of traces of mercury in cosmetics by thermal decomposition and atomic absorption spectrometry (mercury analyser) (ISO 23674:2022; EN ISO 23674:2022)

HRN EN ISO 23821:2022 en pr  
Kozmetika – Analitičke metode – Određivanje tragova žive u kozmetici atomskom apsorpcijskom spektrometrijom (AAS) u kojoj se primjenjuje tehnika hladnih para nakon razgradnje pod tlakom (ISO 23821:2022; EN ISO 23821:2022)  
Cosmetics – Analytical methods – Determination of traces of mercury in cosmetics by atomic absorption spectrometry (AAS) cold vapour technology after pressure digestion (ISO 23821:2022; EN ISO 23821:2022)

## **HZN/TO 228, Usluge u turizmu**

HRN EN ISO 24804:2022 en pr  
Usluge rekreativnog ronjenja – Zahtjevi za obuku ronjenja s aparatima zatvorenog kruga (rebreather) – Ronjenje bez dekompresije (ISO 24804:2022; EN ISO 24804:2022)  
Recreational diving services – Requirements for rebreather diver training – No-decompression diving (ISO 24804:2022; EN ISO 24804:2022)

HRN EN ISO 24805:2022 en pr  
Usluge rekreativnog ronjenja – Zahtjevi za obuku ronjenja s aparatima zatvorenog kruga (rebreather) – Ronjenje s dekompresijom na 45 m (ISO 24805:2022; EN ISO 24805:2022)  
Recreational diving services – Requirements for rebreather diver training – Decompression diving to 45 m (ISO 24805:2022; EN ISO 24805:2022)

## **HZN/TO 238, Čvrsta biogoriva**

HRN EN ISO 18134-1:2022 en pr  
Čvrsta biogoriva – Određivanje udjela vlage – 1. dio: Referentna metoda (ISO 18134-1:2022; EN ISO 18134-1:2022)  
Solid biofuels – Determination of moisture content – Part 1: Reference method (ISO 18134-1:2022; EN ISO 18134-1:2022)

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

HRN EN 1978:2022 en pr  
Bakar i legure bakra – Bakrene katode (EN 1978:2022)  
Copper and copper alloys – Copper cathodes (EN 1978:2022)

HRN EN ISO 4943:2022 en pr  
Čelik i željezni ljev – Određivanje sadržaja bakra – Metoda plamene atomske apsorpcijske spektrometrije (ISO 4943:2022; EN ISO 4943:2022)  
Steel and cast iron – Determination of copper content – Flame atomic absorption spectrometric method (ISO 4943:2022; EN ISO 4943:2022)

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

HRN EN ISO 1461:2022 en pr  
Vruće pocinčane prevlake na željeznim i čeličnim predmetima – Specifikacije i ispitne metode (ISO 1461:2022; EN ISO 1461:2022)  
Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods (ISO 1461:2022; EN ISO 1461:2022)

HRN EN ISO 2747:2022 en pr  
Staklasti i porculanski emajli – Emajlirano posuđe za kuhanje – Određivanje otpornosti na toplinski šok (ISO 2747:1998; EN ISO 2747:2022)  
Vitreous and porcelain enamels – Enamelled cooking utensils – Determination of resistance to thermal shock (ISO 2747:1998; EN ISO 2747:2022)

HRN EN ISO 4532:2022 en pr  
Staklasti i porculanski emajli – Određivanje otpornosti emajliranih predmeta na udar – Ispitivanje pomoću pištolja (ISO 4532:1991; EN ISO 4532:2022)  
Vitreous and porcelain enamels – Determination of the resistance of enamelled articles to impact – Pistol test (ISO 4532:1991; EN ISO 4532:2022)

HRN EN ISO 8291:2022 en pr  
Staklasti i porculanski emajli – Metoda ispitivanja svojstava samočišćenja (ISO 8291:1986; EN ISO 8291:2022)  
Vitreous and porcelain enamels – Method of test of self-cleaning properties (ISO 8291:1986; EN ISO 8291:2022)

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

HRN EN 17427:2022 en pr  
Ambalaža – Zahtjevi i shema ispitivanja za nosive vrećice prikladne za obradu u primjereno kontroliranim kućnim kompostanama (EN 17427:2022)  
Packaging – Requirements and test scheme for carrier bags suitable for treatment in well-managed home composting installations (EN 17427:2022)

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

HRN EN 15947-1:2022 en,fr,de pr  
Pirotehnička sredstva – Vatrometi, kategorije F1, F2 i F3 – 1. dio: Nazivlje (EN 15947-1:2022)  
Pyrotechnic articles – Fireworks, Categories F1, F2 and F3 – Part 1: Terminology (EN 15947-1:2022)

HRN EN 15947-2:2022 en pr  
Pirotehnička sredstva – Vatrometi, kategorije F1, F2 i F3 – 2. dio: Kategorije i tipovi vatrometa (EN 15947-2:2022)  
Pyrotechnic articles – Fireworks, Categories F1, F2 and F3 – Part 2: Categories and types of firework (EN 15947-2:2022)

HRN EN 15947-3:2022 en pr  
Pirotehnička sredstva – Vatrometi, kategorije F1, F2 i F3 – 3. dio: Minimalni zahtjevi za označavanje (EN 15947-3:2022)  
Pyrotechnic articles – Fireworks, Categories F1, F2, and F3 – Part 3: Minimum labelling requirements (EN 15947-3:2022)

HRN EN 15947-4:2022 en pr  
Pirotehnička sredstva – Vatrometi, kategorije F1, F2 i F3 – 4. dio: Metode ispitivanja (EN 15947-4:2022)  
Pyrotechnic articles – Fireworks, Categories F1, F2 and F3 – Part 4: Test methods (EN 15947-4:2022)

HRN EN 15947-5:2022 en pr  
Pirotehnička sredstva – Vatrometi, kategorije F1, F2 i F3 – 5. dio: Zahtjevi za konstrukciju i svojstva (EN 15947-5:2022)  
Pyrotechnic articles – Fireworks, Categories F1, F2 and F3 – Part 5: Requirements for construction and performance (EN 15947-5:2022)

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

HRN EN 16072:2022 en pr  
Inteligentni transportni sustavi – Elektronička sigurnost – Paneuropski operativni zahtjevi za hitne elektroničke pozive iz vozila (EN 16072:2022)  
Intelligent transport systems – eSafety – Pan-European eCall operating requirements (EN 16072:2022)

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

HRN EN 13031-1:2020/Ispr.1:2022 en pr  
Staklenici – Projektiranje i izgradnja – 1. dio: Staklenici za komercijalnu proizvodnju (EN 13031-1:2019/AC:2022)  
Greenhouses – Design and construction – Part 1: Commercial production greenhouses (EN 13031-1:2019/AC:2022)

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

HRN EN ISO 128-3:2022 en pr  
Tehnička dokumentacija proizvoda – Osnovna načela prikazivanja – 3. dio: Pogledi, presjeci i rezovi (ISO 128-3:2022; EN ISO 128-3:2022)  
Technical product documentation (TPD) – General principles of representation – Part 3: Views, sections and cuts (ISO 128-3:2022; EN ISO 128-3:2022)

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

HRN EN 17658:2022 en pr  
Kemijski dezinficijensi i antiseptici – Kemijska dezinfekcija tekstila u domaćinstvu – Metoda ispitivanja i zahtjevi (faza 2, korak 2) (EN 17658:2022)  
Chemical disinfectants and antiseptics – Chemical textile disinfection for the domestic area – Test method and requirements (phase 2, step 2) (EN 17658:2022)

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

HRN EN ISO 19650-4:2022 en pr  
Organizacija i digitalizacija informacija o zgradama i inženjerskim građevinama uključujući modeliranje informacija o građevinama (BIM) – Upravljanje informacijama modeliranjem informacija o građevinama – 4. dio: Razmjena podataka (ISO 19650-4:2022; EN ISO 19650-4:2022)  
Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 4: Information exchange (ISO 19650-4:2022; EN ISO 19650-4:2022)

HRN ISO 21931-1:2022 en pr  
Održivost zgrada i inženjerskih građevina – Metodološki okvir za ocjenjivanje svojstava građevina s obzirom na okoliš te socijalnih i ekonomskih svojstava kao podloga za procjenu održivosti – 1. dio: Zgrade (ISO 21931-1:2022)  
Sustainability in buildings and civil engineering works – Framework for methods of assessment of the environmental, social and economic performance of construction works as a basis for sustainability assessment – Part 1: Buildings (ISO 21931-1:2022)

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

HRN EN 13888-1:2022 en pr  
Mase za sljubnice – 1. dio: Zahtjevi, razredba, opisivanje, označivanje i obilježavanje (EN 13888-1:2022)  
Grouts for ceramic tiles – Part 1: Requirements, classification, designation, marking and labelling (EN 13888-1:2022)

HRN EN 13888-2:2022 en pr  
Mase za sljubnice – 2. dio: Metode ispitivanja (EN 13888-2:2022)  
Grouts for ceramic tiles – Part 2: Test methods (EN 13888-2:2022)

## **HZN/TO 557, Zaštitna odjeća**

HRN EN ISO 6942:2022 en pr  
Zaštitna odjeća – Zaštita od topline i vatre – Metoda ispitivanja: Procjena jednoslojnih i višeslojnih materijala pri izlaganju izvoru toplinskog zračenja (ISO 6942:2022; EN ISO 6942:2022)  
Protective clothing – Protection against heat and fire – Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2022; EN ISO 6942:2022)

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

HRN EN 17528:2022 en pr  
Odjeća – Fiziološki učinci – Mjerenje otpornosti vodene pare pomoću lutke za znojenje (EN 17528:2022)  
Clothing – Physiological effects – Measurement of water vapour resistance by means of a sweating manikin (EN 17528:2022)

HRN EN 17681-1:2022 en pr  
Tekstil i tekstilni proizvodi – Organski fluor – 1. dio: Određivanje nehlapljivih spojeva metodom ekstrakcije tekućom kromatografijom (EN 17681-1:2022)  
Textiles and textile products – Organic fluorine – Part 1: Determination of non-volatile compounds by extraction method using liquid chromatography (EN 17681-1:2022)

HRN EN 17681-2:2022 en pr  
Tekstil i tekstilni proizvodi – Organski fluor – 2. dio: Određivanje hlapljivih spojeva metodom ekstrakcije plinskom kromatografijom (EN 17681-2:2022)  
Textiles and textile products – Organic fluorine – Part 2: Determination of volatile compounds by extraction method using gas chromatography (EN 17681-2:2022)

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

HRS CEN/TS 17743:2022 en pr  
Hrana – Određivanje ostataka pesticida ekstrakcijom s etil acetatom primjenom GC i LC-MS/MS (sweEt) (CEN/TS 17743:2022)  
Foodstuff – Determination of pesticide residues by ethyl acetate extraction using GC-and LC-MS/MS (SweEt) (CEN/TS 17743:2022)

## **HZN/TO 580, Pribor za prvu pomoć**

HRN 1112:2022 hr izv  
Komplet prve pomoći za motorna vozila kategorije M i N  
First aid kit for M and N category motor vehicles

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

HRN EN ISO/IEC 24760-2:2022 en pr  
Informacijska tehnologija – Sigurnosne tehnike – Okvir za upravljanje identitetom – 2. dio: Referentna arhitektura i zahtjevi (ISO/IEC 24760-2:2015; EN ISO/IEC 24760-2:2022)  
Information technology – Security techniques – A framework for identity management – Part 2: Reference architecture and requirements (ISO/IEC 24760-2:2015; EN ISO/IEC 24760-2:2022)

HRN EN ISO/IEC 24760-3:2022 en pr  
Informacijska tehnologija – Sigurnosne tehnike – Okvir za upravljanje identitetom – 3. dio: Praksa (ISO/IEC 24760-3:2016; EN ISO/IEC 24760-3:2022)  
Information technology – Security techniques – A framework for identity management – Part 3: Practice (ISO/IEC 24760-3:2016; EN ISO/IEC 24760-3:2022)

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

HRN EN 50122-1:2022 en pr  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 1. dio: Zaštitne mjere protiv električnog udara (EN 50122-1:2022)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electric shock (EN 50122-1:2022)

HRN EN 50122-2:2022 en pr  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 2. dio: Mjere protiv učinaka lutajućih struja od istosmjernih sustava vuče (EN 50122-2:2022)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 2: Provisions against the effects of stray currents caused by DC traction systems (EN 50122-2:2022)

HRN EN 50122-3:2022 en pr  
Željeznički sustav – Stabilna postrojenja – Električna sigurnost, uzemljivanje i povratni krug – 3. dio: Međusobno djelovanje izmjeničnih i istosmjernih sustava vuče (EN 50122-3:2022)  
Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 3: Mutual Interaction of AC and DC traction systems (EN 50122-3:2022)

HRN EN 50367:2020/A1:2022 en pr  
Željeznički sustav – Stabilna postrojenja i željeznička vozila – Kriteriji za omogućavanje tehničke kompatibilnosti između pantografa i gornjeg voda (EN 50367:2020/A1:2022)  
Railway applications – Fixed installations and rolling stock – Criteria to achieve technical compatibility between pantographs and overhead contact line (EN 50367:2020/A1:2022)

## **HZN/TO E13, Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom**

HRN EN IEC 62055-42:2022 en pr  
Mjerenje električne energije – Sustavi plaćanja – 42. dio: Referentni brojevi transakcija (TRN) (IEC 62055-42:2022; EN IEC 62055-42:2022)  
Electricity metering – Payment systems – Part 42: Transaction Reference Numbers (TRN) (IEC 62055-42:2022; EN IEC 62055-42:2022)

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

HRN EN 50708-2-3:2022 en pr  
Energetski transformatori – Dodatni europski zahtjevi – Dio 2-3: Srednji energetski transformatori – Pribor (EN 50708-2-3:2022)  
Power transformers – Additional European requirements – Part 2-3: Medium power transformer – Accessories (EN 50708-2-3:2022)

HRN EN 50708-2-4:2022 en pr  
Energetski transformatori – Dodatni europski zahtjevi – Dio 2-4: Srednji energetski transformatori – Posebna ispitivanja (EN 50708-2-4:2022)  
Power transformers – Additional European requirements – Part 2-4: Medium power transformer – Special tests (EN 50708-2-4:2022)

HRN EN 50708-2-6:2022 en pr  
Energetski transformatori – Dodatni europski zahtjevi – Dio 2-6: Srednji energetski transformatori – Nekonvencionalna tehnologija magnetskog čelika (EN 50708-2-6:2022)  
Power transformers – Additional European requirements – Part 2-6: Medium power transformers – Non-conventional magnetic steel technology (EN 50708-2-6:2022)

HRN EN 50708-3-4:2022 en pr  
Energetski transformatori – Dodatni europski zahtjevi – Dio 3-4: Veliki energetski transformatori – Posebna ispitivanja za valovite rezervoare i radijatore (EN 50708-3-4:2022)  
Power transformers – Additional European requirements – Part 3-4: Large power transformer – Special tests for corrugated tank and radiators (EN 50708-3-4:2022)

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

HRN EN IEC 62271-4:2022 en pr  
Visokonaponska sklopna aparatura – 4. dio: Postupci za rukovanje plinovima za izolaciju i/ili uključivanje i isključivanje (IEC 62271-4:2022; EN IEC 62271-4:2022)  
High-voltage switchgear and controlgear – Part 4: Handling procedures for gases for insulation and/or switching (IEC 62271-4:2022; EN IEC 62271-4:2022)

HRN EN IEC 62271-100:2021/Ispr.1:2022 en pr  
Visokonaponska sklopna aparatura – 100. dio: Prekidači izmjenične struje (IEC 62271-100:2021/Corr.2:2022; EN IEC 62271-100:2021/AC:2022)  
High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers (IEC 62271-100:2021/Corr.2:2022; EN IEC 62271-100:2021/AC:2022)

## **HZN/TO E20, Električni kabeli**

HRN EN 50399:2022 en pr  
Opće metode ispitivanja kabela pod djelovanjem vatre – Mjerenje otpuštanja topline i stvaranja dima na kabelima pri ispitivanju širenjem plamena – Ispitni uređaji, postupci, rezultati (EN 50399:2022)  
Common test methods for cables under fire conditions – Heat release and smoke production measurement on cables during flame spread test – Test apparatus, procedures, results (EN 50399:2022)

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

HRN EN 50642:2018/A1:2022 en pr  
Sustavi za vođenje kabela – Metoda ispitivanja sadržaja halogena (EN 50642:2018/A1:2022)  
Cable management systems – Test method for content of halogens (EN 50642:2018/A1:2022)

HRI CLC/TR 50658:2022 en pr  
Sustavi za vođenje kabela (CMS) koji podupiru kabele s intrinzičnom otpornošću na vatru (CLC/TR 50658:2022)  
Cable management systems (CMS) providing support for cables with intrinsic fire resistance (CLC/TR 50658:2022)

HRN EN IEC 60669-2-1:2022 en pr  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-1: Posebni zahtjevi – Elektronički upravljački uređaji (IEC 60669-2-1:2021; EN IEC 60669-2-1:2022)  
Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic control devices (IEC 60669-2-1:2021; EN IEC 60669-2-1:2022)

HRN EN IEC 60669-2-1:2022/A11:2022 en pr  
Sklopke za kućanstvo i slične fiksne električne instalacije – Dio 2-1: Posebni zahtjevi – Elektronički upravljački uređaji (EN IEC 60669-2-1:2022/A11:2022)  
Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic control devices (EN IEC 60669-2-1:2022/A11:2022)

HRN EN 62423:2012/A12:2022 en pr  
Strujne zaštitne sklopke tip F i tip B sa i bez združene nadstrujne zaštite za kućanstvo i slične primjene (EN 62423:2012/A12:2022)  
Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses (EN 62423:2012/A12:2022)

HRN EN IEC 63355:2022 en pr  
Cable management systems – Test method for content of halogens (IEC 63355:2022; EN IEC 63355:2022)

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

HRN EN IEC 60079-25:2022 en pr  
Eksplozivne atmosfere – 25. dio: Samosigurni električni sustavi (IEC 60079-25:2020+Corr.1:2020; EN IEC 60079-25:2022)  
Explosive atmospheres – Part 25: Intrinsically safe electrical systems (IEC 60079-25:2020+Corr.1:2020; EN IEC 60079-25:2022)

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

HRN EN 60598-2-11:2013/A1:2022 en pr  
Svjetiljke – Dio 2-11: Posebni zahtjevi – Svjetiljke za akvarije (IEC 60598-2-11:2013/am1:2022; EN 60598-2-11:2013/A1:2022)  
Luminaires – Part 2-11: Particular requirements – Aquarium luminaires (IEC 60598-2-11:2013/am1:2022; EN 60598-2-11:2013/A1:2022)

HRN EN IEC 60598-2-18:2022 en pr  
Svjetiljke – Dio 2-18: Posebni zahtjevi – Svjetiljke za bazene za plivanje i slične primjene (IEC 60598-2-18:2022; EN IEC 60598-2-18:2022)  
Luminaires – Part 2-18: Particular requirements – Luminaires for swimming pools and similar applications (IEC 60598-2-18:2022; EN IEC 60598-2-18:2022)

HRN EN 61184:2017/A1:2022 en pr  
Bajunetna grla za žarulje (IEC 61184:2017/am1:2019; EN 61184:2017/A1:2022)  
Bayonet lampholders (IEC 61184:2017/am1:2019; EN 61184:2017/A1:2022)

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

HRN EN 60335-2-30:2011/A13:2022 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-30: Posebni zahtjevi za grijalice prostorija (EN 60335-2-30:2009/A13:2022)  
Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters (EN 60335-2-30:2009/A13:2022)

HRN EN 60335-2-30:2011/A2:2022 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-30: Posebni zahtjevi za grijalice prostorija (IEC 60335-2-30:2009/am2:2021; EN 60335-2-30:2009/A2:2022)  
Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters (IEC 60335-2-30:2009/am2:2021; EN 60335-2-30:2009/A2:2022)

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

HRN IEC 60364-4-44:2022 en pr  
Niskonaponske električne instalacije – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji (IEC 60364-4-44:2007)  
Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2007)

HRN IEC 60364-4-44:2022/A1:2022 en pr  
Niskonaponske električne instalacije – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji (IEC 60364-4-44:2007/am1:2015)  
Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2007/am1:2015)

HRN IEC 60364-4-44:2022/A2:2022 en pr  
Niskonaponske električne instalacije – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji (IEC 60364-4-44:2007/am2:2018)  
Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2007/am2:2018)

HRN IEC 60364-4-44:2022/Ispr.1:2022 en pr  
Niskonaponske električne instalacije – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji (IEC 60364-4-44:2007/Corr.1:2010)  
Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2007/Corr.1:2010)

HRN IEC 60364-4-44:2022/Ispr.2:2022 en pr  
Niskonaponske električne instalacije – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji (IEC 60364-4-44:2007/Corr.2:2011)  
Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2007/Corr.2:2011)

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

HRN EN IEC 62453-2:2022 en pr  
Specifikacija sučelja alata za uređaje u postrojenju (FDT) – 2. dio: Pojmovi i detaljan opis (IEC 62453-2:2022; EN IEC 62453-2:2022)  
Field device tool (FDT) interface specification – Part 2: Concepts and detailed description (IEC 62453-2:2022; EN IEC 62453-2:2022)

## HZN/TO E69, Cestovna i industrijska električna vozila

HRN EN IEC 63110-1:2022 en pr  
Protokol za upravljanje infrastrukturom za punjenje i pražnjenje električnih vozila – 1. dio: Osnovne definicije, slučajevi upotrebe i arhitektura (IEC 63110-1:2022; EN IEC 63110-1:2022)  
Protocol for Management of Electric Vehicles charging and discharging infrastructures – Part 1: Basic Definitions, Use Cases and architecture (IEC 63110-1:2022; EN IEC 63110-1:2022)

## HZN/TO E88, Vjetroagregati

HRN EN IEC 61400-12-3:2022 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 12-3: Značajke snage – Kalibracija na terenu bazirana na mjerenjima (IEC 61400-12-3:2022; EN IEC 61400-12-3:2022)  
Wind energy generation systems – Part 12-3: Power performance – Measurement based site calibration (IEC 61400-12-3:2022; EN IEC 61400-12-3:2022)

HRN EN IEC 61400-12-5:2022 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 12-5: Značajke snage – Procjena prepreka i terena (IEC 61400-12-5:2022; EN IEC 61400-12-5:2022)  
Wind energy generation systems – Part 12-5: Power performance – Assessment of obstacles and terrain (IEC 61400-12-5:2022; EN IEC 61400-12-5:2022)

HRN EN IEC 61400-12-6:2022 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 12-6: Prijenosna funkcija gondole vjetroagregata koji proizvodi električnu energiju bazirana na mjerenjima (IEC 61400-12-6:2022; EN IEC 61400-12-6:2022)  
Wind energy generation systems – Part 12-6: Measurement based nacelle transfer function of electricity producing wind turbines (IEC 61400-12-6:2022; EN IEC 61400-12-6:2022)

HRN EN IEC 61400-50:2022 en pr  
Sustavi za proizvodnju energije iz vjetra – 50. dio: Mjerenje vjetra – Pregled (IEC 61400-50:2022; EN IEC 61400-50:2022)  
Wind energy generation systems – Part 50: Wind measurement – Overview (IEC 61400-50:2022; EN IEC 61400-50:2022)

HRN EN IEC 61400-50-2:2022 en pr  
Sustavi za proizvodnju energije iz vjetra – Dio 50-2: Mjerenje vjetra – Primjena tehnologije udaljenih senzora postavljenih na zemlju (IEC 61400-50-2:2022; EN IEC 61400-50-2:2022)  
Wind energy generation systems – Part 50-2: Wind measurement – Application of ground-mounted remote sensing technology (IEC 61400-50-2:2022; EN IEC 61400-50-2:2022)

## HZN/TO E112, Procjena i značajke električnih izolacijskih materijala i sustava

HRN EN IEC 62631-2-2:2022 en pr  
Dielektrična i otporna svojstva čvrstih izolacijskih materijala – Dio 2-2: Relativna permitivnost i faktor gubitaka – Visoke frekvencije (1 MHz do 300 MHz) – Metode izmjenične struje (IEC 62631-2-2:2022; EN IEC 62631-2-2:2022)  
Dielectric and resistive properties of solid insulating materials – Part 2-2: Relative permittivity and dissipation factor – High frequencies (1 MHz to 300 MHz) – AC methods (IEC 62631-2-2:2022; EN IEC 62631-2-2:2022)

## HZN/TO T4, Normizacija u telekomunikacijama

HRN EN 300 132-2 V2.7.1:2022 en pr  
Inženjerstvo okoliša (EE) – Sučelje za izvore napajanja na ulazu opreme informacijsko-komunikacijske tehnologije (IKT) – 2. dio: -48 V istosmjerna struja (DC) (EN 300 132-2 V2.7.1:2022)  
Environmental Engineering (EE) – Power supply interface at the input of Information and Communication Technology (ICT) equipment – Part 2: -48 V Direct Current (DC) (EN 300 132-2 V2.7.1:2022)

HRN EN 301 489-54 V1.1.1:2022 en pr  
Norma elektromagnetske kompatibilnosti (EMC) za radijsku opremu i usluge – 54. dio: Posebni uvjeti za fiksne zemaljske zrakoplovne i meteorološke radare – Harmonizirana norma za elektromagnetsku kompatibilnost (EN 301 489-54 V1.1.1:2022)  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars – Harmonised Standard for electromagnetic compatibility (EN 301 489-54 V1.1.1:2022)

## HZN/TO Z2, Ocjenjivanje sukladnosti i akreditacija

HRN ISO/IEC 17060:2022 en pr  
Ocjenjivanje sukladnosti – Kodeks dobre prakse (ISO/IEC 17060:2022)  
Conformity assessment – Code of good practice (ISO/IEC 17060:2022)

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

HRS CEN/TS 17633:2022 en pr  
Opća načela i zahtjevi za ispitivanje kvalitete tekućina za elektroničke cigarete i razine nikotina u tekućinama za elektroničke cigarete (CEN/TS 17633:2022)  
General principles and requirements for testing of quality and nicotine levels of electronic cigarette liquids (CEN/TS 17633:2022)

HRN EN ISO 24211:2022 en pr  
Proizvodi za udisanje para iz e-tekućina – Određivanje odabranih karbonila u emisijama proizvoda za udisanje para iz e-tekućina (ISO 24211:2022; EN ISO 24211:2022)  
Vapour products – Determination of selected carbonyls in vapour product emissions (ISO 24211:2022; EN ISO 24211:2022)

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

HRN EN ISO/CIE 11664-2:2022 en pr  
Kolorimetrija – 2. dio: CIE standardi izvora svjetlosti (ISO/CIE 11664-2:2022; EN ISO/CIE 11664-2:2022)  
Colorimetry – Part 2: CIE standard illuminants (ISO/CIE 11664-2:2022; EN ISO/CIE 11664-2:2022)

HRN EN ISO/CIE 11664-6:2022 en pr  
Kolorimetrija – 6. dio: Formula CIEDE2000 za izračunavanje kolorimetrijske razlike (ISO/CIE 11664-6:2022; EN ISO/CIE 11664-6:2022)  
Colorimetry – Part 6: CIEDE2000 Colour-difference formula (ISO/CIE 11664-6:2022; EN ISO/CIE 11664-6:2022)

HRN EN ISO 12872:2022 en pr  
Maslinova ulja i ulja od komine masline – Određivanje udjela 2-gliceril monopalmitata (ISO 12872:2022; EN ISO 12872:2022)  
Olive oils and olive-pomace oils – Determination of the 2-glycerol monopalmitate content (ISO 12872:2022; EN ISO 12872:2022)

HRN EN ISO 16474-2:2013/A1:2022 en pr  
Boje i lakovi – Metode izlaganja izvora svjetla u laboratoriju – 2. dio: Lučne svjetiljke sa ksenonom – Amandman 1: Klasifikacija filtera za dnevno svjetlo (ISO 16474-2:2013/Amd 1:2022; EN ISO 16474-2:2013/A1:2022)  
Paints and varnishes – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps – Amendment 1: Classification of daylight filters (ISO 16474-2:2013/Amd 1:2022; EN ISO 16474-2:2013/A1:2022)

## HZN/TU I1, Strojarstvo 1

HRN EN 17763:2022 en pr  
Centrifuge – Centrifuge za brodsko gorivo – Utvrđivanje svojstava odvajanja čestica i certificiranog protoka (CFR) pod utvrđenim ispitnim uvjetima (EN 17763:2022)  
Centrifuges – Marine fuel centrifuges – Determination of particle separation performance and certified flow rate (CFR) under defined test conditions (EN 17763:2022)

## HZN/TU N1, Nemetalni materijali 1

HRN EN ISO 24252:2022 en pr  
Sustavi proizvodnje bioplina – Nekućanski sustavi bez uplinjavanja (ISO 24252:2021; EN ISO 24252:2022)  
Biogas systems – Non-household and non-gasification (ISO 24252:2021; EN ISO 24252:2022)

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

HRN EN ISO 8362-2:2015/A1:2022 en pr  
Posude za injekcije i pribor – 2. dio: Zatvarači za injekcijske bočice (ISO 8362-2:2015/Amd 1:2022; EN ISO 8362-2:2015/A1:2022)  
Injection containers and accessories – Part 2: Closures for injection vials (ISO 8362-2:2015/Amd 1:2022; EN ISO 8362-2:2015/A1:2022)



HRN EN ISO 8536-3:2010/A1:2022 en pr  
Oprema za infuziju za medicinsku primjenu – 3. dio: Aluminijski poklopci za boce za infuziju (ISO 8536-3:2009/Amd 1:2022; EN ISO 8536-3:2009/A1:2022)  
Infusion equipment for medical use – Part 3: Aluminium caps for infusion bottles (ISO 8536-3:2009/Amd 1:2022; EN ISO 8536-3:2009/A1:2022)

HRN EN ISO 9333:2022 en pr  
Stomatologija – Materijali za lemljenje (ISO 9333:2022; EN ISO 9333:2022)  
Dentistry – Brazing materials (ISO 9333:2022; EN ISO 9333:2022)

HRN EN ISO 18618:2022 en pr  
Stomatologija – Interoperabilnost CAD/CAM sustava (ISO 18618:2022; EN ISO 18618:2022)  
Dentistry – Interoperability of CAD/CAM Systems (ISO 18618:2022; EN ISO 18618:2022)

HRN EN ISO 22674:2022 en pr  
Stomatologija – Metalni materijali za fiksne i mobilne restoracije i naprave (ISO 22674:2022; EN ISO 22674:2022)  
Dentistry – Metallic materials for fixed and removable restorations and appliances (ISO 22674:2022; EN ISO 22674:2022)

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

HRN EN 16603-10-03:2022 en pr  
Svemirsko inženjerstvo – Ispitivanje (EN 16603-10-03:2022)  
Space engineering – Testing (EN 16603-10-03:2022)

HRN EN 16603-20-07:2022 en pr  
Svemirsko inženjerstvo – Elektromagnetska kompatibilnost (EN 16603-20-07:2022)  
Space engineering – Electromagnetic compatibility (EN 16603-20-07:2022)

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

HRN EN IEC 61788-22-3:2022 en pr  
Supravodljivost – Dio 22-3: Detektor fotona sa supravodljivom trakom – Brzina brojenja u tami (IEC 61788-22-3:2022; EN IEC 61788-22-3:2022)  
Superconductivity – Part 22-3: Superconducting strip photon detector – Dark count rate (IEC 61788-22-3:2022; EN IEC 61788-22-3:2022)

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

HRN EN IEC 60384-1-1:2022 en pr  
Fiksni kondenzatori za uporabu u elektroničkoj opremi – Dio 1-1: Prazna tiskanica za detaljnu opću specifikaciju (IEC 60384-1-1:2022; EN IEC 60384-1-1:2022)  
Fixed capacitors for use in electronic equipment – Part 1-1: Generic blank detail specification (IEC 60384-1-1:2022; EN IEC 60384-1-1:2022)

HRN EN IEC 61753-053-02:2022 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbena norma – Dio 053-02: Jednomodni varijabilni svjetlovodni električno upravljani prigušnik za kategoriju C koji nije opremljen konektorima – Kontrolirana okruženja (IEC 61753-053-02:2022; EN IEC 61753-053-02:2022)  
Fibre optic interconnecting devices and passive components – Performance standard – Part 053-02: Non-connectorized, single-mode fibre, electrically controlled, variable optical attenuator for category C – Controlled environments (IEC 61753-053-02:2022; EN IEC 61753-053-02:2022)

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

HRN EN IEC 60953-3:2022 en pr  
Pravila za prijamna ispitivanja parnih turbina – 3. dio: Potvrдна ispitivanja toplinskih značajki obnovljenih parnih turbina (IEC 60953-3:2022; EN IEC 60953-3:2022)  
Rules for steam turbine thermal acceptance tests – Part 3: Thermal performance verification tests of retrofitted steam turbines (IEC 60953-3:2022; EN IEC 60953-3:2022)

HRN EN IEC 61855:2022 en pr  
Električni aparati za njegu kose za kućansku i sličnu upotrebu – Metode za mjerenje radnih značajki (IEC 61855:2022; EN IEC 61855:2022)  
Household and similar use electrical hair care appliances – Methods for measuring the performance (IEC 61855:2022; EN IEC 61855:2022)

HRN EN IEC 62282-4-101:2022 en pr  
Tehnologija gorivih članaka – Dio 4-101: Energetski sustavi gorivih članaka za pogon električnih industrijskih kamiona – Sigurnost (IEC 62282-4-101:2022; EN IEC 62282-4-101:2022)  
Fuel cell technologies – Part 4-101: Fuel cell power systems for electrically powered industrial trucks – Safety (IEC 62282-4-101:2022; EN IEC 62282-4-101:2022)

HRN EN IEC 62282-4-600:2022 en pr  
Tehnologija gorivih članaka – Dio 4-600: Energetski sustavi gorivih članaka za pogon necestovnih vozila i pomoćnih energetskih jedinica (APU) – Metode ispitivanja značajki hibridnih sustava gorivih članaka i baterija za rovkopače (IEC 62282-4-600:2022; EN IEC 62282-4-600:2022)  
Fuel cell technologies – Part 4-600: Fuel cell power systems for propulsion other than road vehicles and auxiliary power units (APU) – Fuel cell/battery hybrid systems performance test methods for excavators (IEC 62282-4-600:2022; EN IEC 62282-4-600:2022)

HRN EN IEC 62841-4-7:2022 en pr  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 4-7: Posebni zahtjevi za vrtnje razrahljivače i prozračivače koje pješice gura i njima upravlja čovjek (IEC 62841-4-7:2022; EN IEC 62841-4-7:2022)  
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 (IEC 62841-4-7:2022; EN IEC 62841-4-7:2022)

HRN EN IEC 62841-4-7:2022/A11:2022 en pr  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za travnjake i vrtove – Sigurnost – Dio 4-7: Posebni zahtjevi za vrtnje razrahljivače i prozračivače koje pješice gura i njima upravlja čovjek (EN IEC 62841-4-7:2022/A11:2022)  
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 (EN IEC 62841-4-7:2022/A11:2022)

HRN EN IEC 63159-2-1:2022 en pr  
Kućanski električni protočni grijači vode – Metode za mjerenje značajki – Dio 2-1: Multifunkcionalni električni protočni grijači vode (IEC 63159-2-1:2021; EN IEC 63159-2-1:2021)  
Household electric instantaneous water heaters – Methods for measuring the performance – Part 2-1: Multifunctional electric instantaneous water heaters (IEC 63159-2-1:2021; EN IEC 63159-2-1:2021)

### 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

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

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

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

ISO 5631-1:2022 en  
Paper and board – Determination of colour by diffuse reflectance – Part 1: Indoor daylight conditions (C/2°)  
Papir i karton – Određivanje boje difuznom refleksijom – 1. dio: Uvjeti pri unutrašnjem dnevnom svjetlu (C/2 stupnja)

ISO 5631-2:2022 en  
Paper and board – Determination of colour by diffuse reflectance – Part 2: Outdoor daylight conditions (D65/10°)  
Papir i karton – Određivanje boje difuznom refleksijom – 2. dio: Uvjeti pri vanjskom dnevnom svjetlu (D65/10 stupnjeva)

ISO 5631-3:2022 en  
Paper and board – Determination of colour by diffuse reflectance – Part 3: Indoor illumination conditions (D50/2°)  
Papir i karton – Određivanje boje difuznom refleksijom – 3. dio: Osvjetljenje kod unutarnjih uvjeta (D50/2 stupnja)

ISO 6587:2021 en  
Paper, board and pulps – Determination of conductivity of aqueous extracts  
Papir, karton i pulpe – Određivanje vodljivosti vodenih ekstrakta

ISO 10716:2022 en  
Paper and board – Determination of alkali reserve  
Papir i karton – Određivanje zaliha lužina

ISO 11093-4:2022 en  
Paper and board – Testing of cores – Part 4: Measurement of dimensions  
Papir i karton – Ispitivanje papirnih cijevi – 4. dio: Mjerenje dimenzija

ISO 13820:2021 en  
Paper, board and corrugated fibreboard – Description and calibration of fixed platen compression-testing equipment  
Papir, karton i valoviti karton – Opis i umjeravanje opreme za ispitivanje kompresije s fiksnom pločom

ISO 14968:2022 en  
Paper and board – Cut-size office paper – Measurement of curl in a pack of sheets  
Papir i karton – Uredski papir u arcima – Mjerenje nabora u paketu listova

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

prEN 17744 en  
Agricultural and forestry machinery – Environmental requirements for dusters  
Poljoprivredna i šumarska mehanizacija – Zahtjevi za zaprašivače s obzirom na zaštitu okoliša

prEN 17745 en  
Agricultural and forestry machinery – Environmental requirements for granule applicator of Plant Protection Products  
Poljoprivredna i šumarska mehanizacija – Zahtjevi za uređaje za nanošenje sredstava za zaštitu bilja u obliku granulata s obzirom na zaštitu okoliša

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

prEN ISO 10534-2 en  
Acoustics – Determination of acoustic properties in impedance tubes – Part 2: Two-microphone technique for normal sound absorption coefficient and normal surface impedance (ISO/DIS 10534-2:2022)

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

prEN ISO 1089 en  
Resistance welding equipment – Electrode taper fits for spot welding equipment – Dimensions (ISO/DIS 1089:2022)  
Oprema za elektrootporno zavarivanje – Elektrodni konični dosjeti za opremu za točkasto zavarivanje – Dimenzije (ISO/DIS 1089:2022)

prEN ISO 14172 en  
Welding consumables – Covered electrodes for manual metal arc welding of nickel and nickel alloys – Classification (ISO/DIS 14172:2022)  
Dodatni i potrošni materijali za zavarivanje – Obložene elektrode za ručno elektroručno zavarivanje nikla i legura nikla – Razredba (ISO/DIS 14172:2022)

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

EN ISO 12460-3:2020/prA1 en  
Wood-based panels – Determination of formaldehyde release – Part 3: Gas analysis method – Amendment 1: Laser spectroscopy (ISO 12460-3:2020/DAMd 1:2022)

#### HZN/TO 120, *Koža i obuća*

prEN 16484 en  
Leather – Requirements for the determination of the origin of leather production  
Koža – Zahtjevi za određivanje podrijetla proizvodnje kože

#### HZN/TO 136, *Namještaj*

prEN 747-1 en  
Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements  
Namještaj – Kreveti na kat i povišeni kreveti – 1. dio: Zahtjevi za sigurnost, čvrstoću i izdržljivost

prEN 747-2 en  
Furniture – Bunk beds and high beds – Part 2: Test methods  
Namještaj – Kreveti na kat i povišeni kreveti – 2. dio: Metode ispitivanja

prEN 17902 en  
Furniture – Circularity – Requirement and evaluation methods for dis-/reassembly  
Namještaj – Kružnost – Zahtjevi i metode ocjenjivanja za rastavljanje/ponovno sastavljanje

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

prEN ISO 13266 en  
Thermoplastics piping systems for non-pressure underground drainage and sewerage – Thermoplastics shafts or risers for inspection chambers and manholes – Determination of resistance against surface and traffic loading (ISO 13266:2022)

prEN ISO 13267 en  
Thermoplastics piping systems for non-pressure underground drainage and sewerage – Thermoplastics inspection chamber and manhole bases – Test methods for buckling resistance (ISO 13267:2022)

prEN ISO 13268 en  
Thermoplastics piping systems for non-pressure underground drainage and sewerage – Thermoplastics shafts or risers for inspection chambers and manholes – Determination of ring stiffness (ISO 13268:2022)

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

ISO 10849:2022 en  
Stationary source emissions – Determination of the mass concentration of nitrogen oxides in flue gas – Performance characteristics of automated measuring systems  
Emisije iz nepokretnih izvora – Određivanje masene koncentracije dušikovih oksida u otpadnom plinu – Radne značajke automatskih mjernih sustava

FprCEN/TR 17911 en  
Stationary source emissions – Guideline for the elaboration of standardized measurement methods – Recommendations for the structure and content  
Emisije iz nepokretnih izvora – Smjernica za razradu standardiziranih metoda mjerenja – Preporuke za strukturu i sadržaj

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

prEN ISO 5667-1 en  
Water quality – Sampling – Part 1: Guidance on the design of sampling programmes and sampling techniques (ISO/FDIS 5667-1:2022)  
Kvaliteta vode – Uzorkovanje – 1. dio: Smjernice za osmišljavanje programa uzorkovanja i tehnike uzorkovanja (ISO/FDIS 5667-1:2022)

prEN 17899 en  
Water quality – Spectrophotometric determination of chlorophyll-a content by ethanol extraction for the routine monitoring of water quality  
Kvaliteta vode – Spektrofotometrijsko određivanje sadržaja klorofila a ekstrakcijom pomoću etanola u svrhu redovitog praćenja kvalitete vode

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

prEN ISO 20685-2 en  
Ergonomics – 3-D scanning methodologies for internationally compatible anthropometric databases – Part 2: Evaluation protocol of surface shape and repeatability of relative landmark positions (ISO/DIS 20685-2:2022)  
Ergonomija – 3-D metodologije skeniranja za međunarodno kompatibilne antropometrijske baze podataka – 2. dio: Evaluacijski protokol oblika površine i ponovljivosti relativnih referentnih pozicija (ISO/DIS 20685-2:2022)

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

prEN 17887-1 en  
Thermal performance of buildings – In situ testing of completed buildings – Part 1: Data collection for aggregate heat loss test  
Toplinska svojstva zgrada – Ispitivanje gotovih zgrada in situ – 1. dio: Prikupljanje podataka za ispitivanje ukupnoga gubitka topline

prEN 17887-2 en  
Thermal performance of buildings – In situ testing of completed buildings – Part 2: Steady-state data analysis for aggregate heat loss test  
Toplinska svojstva zgrada – Ispitivanje gotovih zgrada in situ – 2. dio: Stacionarna analiza podataka za ispitivanje ukupnoga gubitka topline

prEN 17888-1 en  
Thermal performance of buildings – In situ testing of building test structures – Part 1: Data collection for aggregate heat loss test  
Toplinska svojstva zgrada – Ispitivanje pokusnih građevinskih konstrukcija in situ – 1. dio: Prikupljanje podataka za ispitivanje ukupnoga gubitka topline

prEN 17888-2 en  
Thermal performance of buildings – In situ testing of building test structures – Part 2: Steady-state data analysis for aggregate heat loss test  
Toplinska svojstva zgrada – Ispitivanje pokusnih građevinskih konstrukcija in situ – 2. dio: Stacionarna analiza podataka za ispitivanje ukupnoga gubitka topline

## **HZN/TO 167, Metalne konstrukcije**

EN 1090-2:2018/prA1 en  
Execution of steel structures and aluminium structures – Part 2: Technical requirements for steel structures  
Izvedba čeličnih i aluminijevih konstrukcija – 2. dio: Tehnički zahtjevi za čelične konstrukcije

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

prEN ISO 11239 en  
Health informatics – Identification of medicinal products – Data elements and structures for the unique identification and exchange of regulated information on pharmaceutical dose forms, units of presentation, routes of administration and packaging (ISO/DIS 11239:2022)  
Zdravstvena informatika – Identifikacija lijekova – Elementi i strukture podataka za jedinstvenu identifikaciju i razmjenu propisanih informacija o farmaceutskim oblicima lijeka, oblicima pakiranja, jediničnim oblicima, putovima primjene i pakiranju (ISO/DIS 11239:2022)

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

EN 14382:2019/prA1 en  
Gas safety shut-off devices for inlet pressure up to 10 MPa (100 bar)  
Sigurnosni zaporni uređaji za ulazni tlak plina do 100 bara

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

prEN ISO 17573-3 en  
Electronic fee collection – System architecture for vehicle-related tolling – Part 3: Data dictionary (ISO/DIS 17573-3:2022)

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

prEN 13231-1 en  
Railway applications – Infrastructure – Acceptance of works – Part 1: Works on ballasted track – Plain line, switches and crossings

EN 13749:2021/prA1 en  
Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames  
Željeznički sustav – Osovinski sklopovi i okretna postolja – Metode definiranja zahtjeva za oblikovanje okvira okretnih postolja

prEN 15877-1 en  
Railway applications – Markings of railway vehicles – Part 1: Freight wagons  
Željeznički sustav – Oznake na željezničkim vozilima – 1. dio: Teretni vagoni

prEN 17149-2 en  
Railway applications – Strength assessment of railway vehicle structures – Part 2: Static strength assessment

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

prEN ISO 14126 en  
Fibre-reinforced plastic composites – Determination of compressive properties in the in-plane direction (ISO/DIS 14126:2022)  
Plastični kompoziti ojačani vlaknima – Određivanje pritisnih svojstava u smjeru ravnine oslojavanja (ISO/DIS 14126:2022)

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

prEN 13121-3 en  
GRP tanks and vessels for use above ground – Part 3: Design and workmanship  
Spremnici i posude od plastike ojačane staklom (GRP) za nadzemnu upotrebu – 3. dio: Projektiranje i izrada

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

prEN ISO 14644-18 en  
Cleanrooms and associated controlled environments – Part 18: Assessment of suitability of consumables (ISO/DIS 14644-18:2022)

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

EN ISO 5210:2017/prA1 en  
Industrial valves – Multi-turn valve actuator attachments (ISO 5210:2017/DAMd 1:2022)  
Industrijski ventili – Dodaci za višeokretni pogon ventila (ISO 5210:2017/DAMd 1:2022)

EN ISO 5211:2017/prA1 en  
Industrial valves – Part-turn actuator attachments (ISO 5211:2017/DAMd 1:2022)  
Industrijski ventili – Dodaci za dijelom okretni pogon ventila (ISO 5211:2017/DAMd 1:2022)

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

prEN ISO 15213-2 en  
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/DIS 15213-2:2022)  
Mikrobiologija u lancu hrane – Horizontalna metoda za dokazivanje i određivanje broja Clostridium spp. – 2. dio: Određivanje broja Clostridium perfringens tehnikom brojenja kolonija (ISO/DIS 15213-2:2022)

prEN ISO 17468 en  
Microbiology of the food chain – Technical requirements and guidance on establishment or revision of a standardized reference method (ISO/DIS 17468:2022)  
Mikrobiologija u lancu hrane – Tehnički zahtjevi i upute o uspostavljanju ili reviziji standardnih referentnih metoda (ISO/DIS 17468:2022)

EN ISO 18743:2015/prA1 en  
Microbiology of the food chain – Detection of Trichinella larvae in meat by artificial digestion method – Amendment 1: Revision of text and minor technical issues, references update, and inclusion of performance characteristics of the method by interlaboratory study (ISO 18743:2015/DAmD 1:2022)  
Mikrobiologija u lancu hrane – Dokazivanje ličinki Trichinella u mesu metodom umjetne probave – Amandman 1: Prerada teksta i manje tehničke izmjene, posuvremenjivanje upućivanja i uključivanje izvedbenih značajki metode na temelju međulaboratorijskih ispitivanja (ISO 18743:2015/DAmD 1:2022)

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

prEN ISO/IEC 19896-1 en  
IT security techniques – Competence requirements for information security testers and evaluators – Part 1: Introduction, concepts and general requirements (ISO/IEC 19896-1:2018)

prEN ISO/IEC 19896-2 en  
IT security techniques – Competence requirements for information security testers and evaluators – Part 2: Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers (ISO/IEC 19896-2:2018)

prEN ISO/IEC 19896-3 en  
IT security techniques – Competence requirements for information security testers and evaluators – Part 3: Knowledge, skills and effectiveness requirements for ISO/IEC 15408 evaluators (ISO/IEC 19896-3:2018)

### **HZN/TO E1, Nazivlje u području elektrotehnike**

IEC 60050-471:2007 en  
International Electrotechnical Vocabulary (IEV) – Part 471: Insulators  
Međunarodni elektrotehnički rječnik – 471. poglavlje: Izolatori

IEC 60050-471:2007/am1:2015 en  
International Electrotechnical Vocabulary (IEV) – Part 471: Insulators  
Međunarodni elektrotehnički rječnik – 471. poglavlje: Izolatori

### **HZN/TO E13, Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom**

prEN 50470-4 en  
Electricity metering equipment – Part 4: Particular requirements – Static meters for DC active energy (class indexes A, B, C)

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

prEN IEC 60061-PR2022-1:2022 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Proposal for GJ6.6 fit holder spacing sheet (IEC 60061-PR2022-1 ED3)

prEN IEC 60061-PR2022-2:2022 en  
Lamp caps and holders together with gauges for the control of interchangeability and safety – Proposal for correction of 7006-187B-2 (IEC 60061-PR2022-2 ED3)

EN 60838-2-3:2017/prA1:2022 en  
Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps (IEC 60838-2-3/am1 ED1)  
Raznovrsna grla za žarulje – Dio 2-3: Posebni zahtjevi – Grla za linearna rasvjetna tijela sa svjetlećim diodama s dva podnoška (IEC 60838-2-3/am1 ED1)

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

prEN IEC 80601-2-58:2022 en  
Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery (IEC 80601-2-58 ED3)  
Medicinska električna oprema – Dio 2-58: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za uklanjanje leća i uređaja za vitrektomiju za oftalmološku kirurgiju (IEC 80601-2-58 ED3)

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

prEN IEC 61987-32:2022 en  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 32: Lists of properties (LOP) for I/O modules for electronic data exchange (IEC 61987-32 ED1)

prEN IEC 62443-2-4:2022 en  
Security for industrial automation and control systems – Part 2-4: Security program requirements for IACS service providers (IEC 62443-2-4 ED2)  
Sigurnost u sustavima industrijske automatizacije i upravljanja – Dio 2-4: Sigurnosni programski zahtjevi za IACS davatelje usluga (IEC 62443-2-4 ED2)

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

prEN IEC 62676-5-1:2022 en  
Video surveillance systems for use in security applications – Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance (IEC 62676-5-1 ED1)

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

Draft EN 300 132-1 V2.1.6:2022 en  
Environmental Engineering (EE) – Power supply interface at the input to Information and Communication Technology (ICT) equipment – Part 1: Alternating Current (AC)  
Inženjerstvo okoliša (EE) – Sučelje za izvore napajanja na ulazu opreme informacijsko-komunikacijske tehnologije (IKT) – 1. dio: Izmjenična struja (AC)

Draft EN 301 908-1 V15.2.0:2022 en  
IMT cellular networks – Harmonised Standard for access to radio spectrum – Part 1: Introduction and common requirements Release 15  
IMT (International Mobile Telecommunications) celularne mreže – Harmonizirana norma za pristup radijskom spektru – 1. dio: Uvod i opći zahtjevi Izdanje 15

Draft EN 303 808 V1.0.0:2022 en  
Environmental Engineering (EE) – Applicability of EN 45552 to EN 45559 methods for assessment of material efficiency aspects of ICT network infrastructure goods in the context of circular economy  
Inženjerstvo okoliša (EE) – Primjenjivost metoda normi EN 45552 do EN 45559 za procjenu aspekata materijalne učinkovitosti IKT mrežne infrastrukture u kontekstu kružnog gospodarstva

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

prEN 17483-2 en  
Private security services – Protection of Critical Infrastructure – Part 2: Airport and aviation security services  
Privatne zaštitarske usluge – Zaštita kritične infrastrukture – 2. dio: Usluge sigurnosti u zračnim lukama i zrakoplovstvu

prEN 17483-3 en  
Private security services – Protection of Critical Infrastructure – Part 3: Maritime and port security services  
Privatne zaštitarske usluge – Zaštita kritične infrastrukture – 3. dio: Usluge sigurnosti u pomorskom prometu i lukama

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

prEN ISO 3262-2 en  
Extenders for paints – Specifications and methods of test – Part 2: Barytes (natural barium sulfate) (ISO/DIS 3262-2:2022)  
Punila za boje – Specifikacije i metode ispitivanja – 2. dio: Barit (prirodni barijev sulfat) (ISO/DIS 3262-2:2022)

prEN ISO 3262-3 en  
Extenders for paints – Specifications and methods of test – Part 3: Blanc fixe (ISO/DIS 3262-3:2022)  
Punila za boje – Specifikacije i metode ispitivanja – 3. dio: Bjelilo (barijev sulfat) (ISO/DIS 3262-3:2022)

prEN ISO 3262-4 en  
Extenders for paints – Specifications and methods of test – Part 4: Whiting (ISO/DIS 3262-4:2022)  
Punila za boje – Specifikacije i metode ispitivanja – 4. dio: Bjelilo (kreda u prahu) (ISO/DIS 3262-4:2022)

prEN ISO 3262-5 en  
Extenders for paints – Specifications and methods of test – Part 5: Natural crystalline calcium carbonate (ISO/DIS 3262-5:2022)  
Punila za boje – Specifikacije i metode ispitivanja – 5. dio: Prirodni kristalini kalcijev karbonat (ISO/DIS 3262-5:2022)

prEN ISO 4624 en  
Paints and varnishes – Pull-off test for adhesion (ISO/DIS 4624:2022)  
Boje i lakovi – Ispitivanje prionljivosti vlačnom metodom (ISO/DIS 4624:2022)

prEN ISO 4628-10 en  
Paints and varnishes – Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 10: Assessment of degree of filiform corrosion (ISO/DIS 4628-10:2022)  
Boje i lakovi – Vrednovanje količine i veličine grešaka i intenzivnosti jednoličnih promjena izgleda – 10. dio: Procjena stupnja nitaste korozije (ISO/DIS 4628-10:2022)

prEN 17908 en  
Algae and algae products – Methods of sampling and analysis – Determination of total lipids content using the Ryckeboosch-Foubert method  
Alge i proizvodi na bazi algi – Metode uzorkovanja i analize – Određivanje ukupnog sadržaja lipida Ryckeboosch-Foubert metodom

prEN ISO 22553-10 en  
Paints and varnishes – Electro-deposition coatings – Part 10: Edge protection (ISO 22553-10:2022)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom – 10. dio: Zaštita bridova (ISO 22553-10:2022)

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

prEN ISO 19238 en  
Radiological protection – Performance criteria for service laboratories performing biological dosimetry by cytogenetics – The dicentric assay (ISO/DIS 19238:2022)

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

EN ISO 8536-15:2022/prA1 en  
Infusion equipment for medical use – Part 15: Light-protective infusion sets for single use (ISO 8536-15:2022/DAmD 1: 2022)  
Oprema za infuziju za medicinsku primjenu – 15. dio: Pribor za infuziju sa zaštitom od svjetla za jednokratnu upotrebu (ISO 8536-15:2022/DAmD 1: 2022)

prEN ISO 14630 en  
Non-active surgical implants – General requirements (ISO/DIS 14630:2022)  
Neaktivni kirurški implantati – Opći zahtjevi (ISO/DIS 14630:2022)

prEN ISO 24395 en  
Dentistry – Classification of tooth restorations preparation (ISO/DIS 24395:2022)

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

prEN 4604-006 en  
Aerospace series – Cable, electrical, for signal transmission – Part 006: Cable, coaxial, 50 Ohms, 200 °C, type WM – Product standard  
Zrakoplovstvo – Kabel, električni, za prijenos signala – Dio 006: Kabel, koaksijalni, 50 oma, 200 °C, tip WM – Norma za proizvod

prEN 4604-007 en  
Aerospace series – Cable, electrical, for signal transmission – Part 007: Cable, coaxial, 50 Ohms, 200 °C, type WN – Product standard  
Zrakoplovstvo – Kabel, električni, za prijenos signala – Dio 007: Kabel, koaksijalni 50 Ω, 200 °C, tip WN – Norma za proizvod

prEN 4641-401 en  
Aerospace series – Cables, optical 125 μm diameter cladding – Part 401: Tight structure bend insensitive 50 μm/125 μm GI fibre nominal, 1,8 mm outside diameter – Product standard

prEN 9103 en  
Aerospace series – Quality management systems – Variation management of key characteristics  
Zrakoplovstvo – Sustavi upravljanja kvalitetom – Promjene upravljanja glavnim značajkama

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

prEN IEC 60749-5:2022 en  
Semiconductor devices – Mechanical and climatic test methods – Part 5: Steady-state temperature humidity bias life test (IEC 60749-5 ED3)

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

prEN IEC 62841-4-8:2022 en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-8: Particular requirements for shredders/chippers (IEC 62841-4-8 ED1)

prEN IEC 62841-4-8/prAA en  
Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-8: Particular requirements for shredders/chippers

EN IEC 62885-4:2020/prA1:2022 en  
Surface cleaning appliances – Part 4: Cordless dry vacuum cleaners for household or similar use – Methods for measuring the performance (IEC 62885-4/am1 ED1)  
Uređaji za čišćenje površina – 4. dio: Bežični suhi usisavači za kućnu i sličnu primjenu – Metode za mjerenje radnih značajka (IEC 62885-4/am1 ED1)

EN IEC 63252:2020/prAA en  
Energy consumption of vending machines  
Potrošnja energije automata za prodaju

## 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 14525:2008 en

Duktilne željezne širokotolerantne spojnice i prirubnički priključci za upotrebu kod cijevi iz različitih materijala: duktilno željezo, sivi lijev, čelik, PVC-U PE, cement ojačan vlaknima (EN 14525:2004)

Ductile iron wide tolerance couplings and flange adaptors for use with pipes of different materials: ductile iron, grey iron, steel, PVC-U PE, fibre-cement (EN 14525:2004)

- zamijenjena s: HRN EN 14525:2022

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

HRN EN ISO 12625-4:2017 en

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

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

- zamijenjena s: HRN EN ISO 12625-4:2022

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

HRN ISO 6079:2000 hr

Instant-čaj u krutom obliku – Specifikacija (ISO 6079:1990)

Instant tea in solid form – Specification (ISO 6079:1990)

- zamijenjena s: HRN ISO 6079:2022

HRN ISO 7305:2002 en

Mljeveni proizvodi od žitarica – Određivanje kiselosti masti (ISO 7305:1998)

Milled cereal products – Determination of fat acidity (ISO 7305:1998)

- zamijenjena s: HRN ISO 7305:2022

HRS ISO/TS 22003:2014 en

Sustavi upravljanja sigurnošću hrane – Zahtjevi za tijela koja provode audit i certifikaciju sustava upravljanja sigurnošću hrane (ISO/TS 22003:2013)

Food safety management systems – Requirements for bodies providing audit and certification of food safety management systems (ISO/TS 22003:2013)

- zamijenjena s: HRN ISO 22003-1:2022

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

HRN EN ISO 17636-2:2014 en

Nerazorno ispitivanje zavarenih spojeva – Radiografsko ispitivanje – 2. dio: Tehnike snimanja rendgenom i izotopom primjenom digitalnih detektora (ISO 17636-2:2013; EN ISO 17636-2:2013)

Non-destructive testing of welds – Radiographic testing – Part 2: X- and gamma-ray techniques with digital detectors (ISO 17636-2:2013; EN ISO 17636-2:2013)

- zamijenjena s: HRN EN ISO 17636-2:2022

### HZN/TO 54, Eterična ulja

HRN ISO 3518:2005 en

Ulje sandalovog drva (Santalum album L.) (ISO 3518:2002)

Oil of sandalwood (Santalum album L.) (ISO 3518:2002)

- zamijenjena s: HRN ISO 3518:2022

HRN ISO 3520:2005 en

Ulje bergamota [Citrus aurantium L. subsp. bergamia (Wight et Arnott) Engler], talijanski tip (ISO 3520:1998)

Oil of bergamot [Citrus aurantium L. subsp. bergamia (Wight et Arnott) Engler], Italian type (ISO 3520:1998)

- zamijenjena s: HRN ISO 3520:2022

HRN ISO 3520:2005/Ispr.1:2016 en

Ulje bergamota [Citrus aurantium L. subsp. bergamia (Wight et Arnott) Engler], talijanski tip (ISO 3520:1998/Cor 1:2002)

Oil of bergamot [Citrus aurantium L. subsp. bergamia (Wight et Arnott) Engler], Italian type (ISO 3520:1998/Cor 1:2002)

- bez zamjene

HRN ISO 22769:2011 en

Ulje australskog sandala (Santalum spicatum (R.Br.) A.D.C.) (ISO 22769:2009)

Oil of Australian sandalwood (Santalum spicatum (R.Br.) A.D.C.) (ISO 22769:2009)

- zamijenjena s: HRN ISO 22769:2022

### HZN/TO 92, Zaštita od požara

HRN EN 1366-10:2017 en

Ispitivanja otpornosti na požar servisnih instalacija – 10. dio: Zaklopke za upravljanje dimom (EN 1366-10:2011+A1:2017)

Fire resistance tests for service installations – Part 10: Smoke control dampers (EN 1366-10:2011+A1:2017)

- zamijenjena s: HRN EN 1366-10:2022

HRN EN 15882-2:2015 en

Proširena primjena rezultata ispitivanja otpornosti na požar servisnih instalacija – 2. dio: Protupožarne zaklopke (EN 15882-2:2015)

Extended application of results from fire resistance tests for service installations – Part 2: Fire dampers (EN 15882-2:2015)

- zamijenjena s: HRN EN 15882-2:2022

### HZN/TO 135, Nerazorna ispitivanja

HRN EN ISO 18563-1:2015 en

Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučne višepretvorničke fazno upravljane opreme – 1. dio: Instrumenti (ISO 18563-1:2015; EN ISO 18563-1:2015)

Non-destructive testing – Characterization and verification of ultrasonic phased array equipment – Part 1: Instruments (ISO 18563-1:2015; EN ISO 18563-1:2015)

- zamijenjena s: HRN EN ISO 18563-1:2022

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

HRN EN 1852-1:2018 en

Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polipropilen (PP) – 1. dio: Specifikacije za cijevi, spojnice i sustav (EN 1852-1:2018)

Plastics piping systems for non-pressure underground drainage and sewerage – Polypropylene (PP) – Part 1: Specifications for pipes, fittings and the system (EN 1852-1:2018)

- zamijenjena s: HRN EN 1852-1:2022

### HZN/TO 146, Kvaliteta zraka

HRN EN ISO 13137:2014 en

Atmosfera radnih prostora – Pumpe za osobno uzorkovanje kemijskih i bioloških agensa – Zahtjevi i metode ispitivanja (ISO 13137:2013; EN ISO 13137:2013)

Workplace atmospheres – Pumps for personal sampling of chemical and biological agents – Requirements and test methods (ISO 13137:2013; EN ISO 13137:2013)

- zamijenjena s: HRN EN ISO 13137:2022

### HZN/TO 163, Toplinska izolacija

HRN EN ISO 9288:1998 en

Toplinska izolacija – Prijenos topline zračenjem – Fizikalne veličine i definicije (ISO 9288:1989; EN ISO 9288:1996)

Thermal insulation – Heat transfer by radiation – Physical quantities and definitions (ISO 9288:1989; EN ISO 9288:1996)

- zamijenjena s: HRN EN ISO 9288:2022

HRN EN 12085:2013 en

Toplinsko-izolacijski proizvodi za graditeljstvo – Određivanje linearnih izmjera uzoraka (EN 12085:2013)

Thermal insulating products for building applications – Determination of linear dimensions of test specimens (EN 12085:2013)

- zamijenjena s: HRN EN ISO 29768:2022

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

HRN EN 16306:2013 en  
Metode ispitivanja prirodnog kamena – Određivanje otpornosti mramora na cikluse topline i vlage (EN 16306:2013)  
Natural stone test methods – Determination of resistance of marble to thermal and moisture cycles (EN 16306:2013)  
- zamijenjena s: HRN EN 16306:2022

## **HZN/TO 238, *Čvrsta biogoriva***

HRN EN ISO 18134-1:2015 en  
Čvrsta biogoriva – Određivanje udjela vlage – Metoda sušionika – 1. dio: Ukupna vlaga – Referentna metoda (ISO 18134-1:2015; EN ISO 18134-1:2015)  
Solid biofuels – Determination of moisture content – Oven dry method – Part 1: Total moisture – Reference method (ISO 18134-1:2015; EN ISO 18134-1:2015)  
- zamijenjena s: HRN EN ISO 18134-1:2022

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

HRN EN 1978:2008 en  
Bakar i legure bakra – Bakrene katode (EN 1978:1998)  
Copper and copper alloys – Copper cathodes (EN 1978:1998)  
- zamijenjena s: HRN EN 1978:2022

HRN EN 24943:2008 en  
Čelik i željezni ljevi – Određivanje sadržaja bakra – Metoda plamene atomske apsorpcijske spektrometrije (ISO 4943:1985; EN 24943:1990+AC:1991)  
Steel and cast iron – Determination of copper content – Flame atomic absorption spectrometric method (ISO 4943:1985; EN 24943:1990+AC:1991)  
- zamijenjena s: HRN EN ISO 4943:2022

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

HRN EN ISO 1461:2010 en  
Vruće pocinčane prevlake na željeznim i čeličnim predmetima – Specifikacije i ispitne metode (ISO 1461:2009; EN ISO 1461:2009)  
Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods (ISO 1461:2009; EN ISO 1461:2009)  
- zamijenjena s: HRN EN ISO 1461:2022

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

HRN EN 15947-1:2016 en,fr,de  
Pirotehnički proizvodi – Vatrometi, kategorije F1, F2 i F3 – 1. dio: Nazivlje (EN 15947-1:2015)  
Pyrotechnic articles – Firework, Categories F1, F2 and F3 – Part 1: Terminology (EN 15947-1:2015)  
- zamijenjena s: HRN EN 15947-1:2022

HRN EN 15947-2:2016 en  
Pirotehnički proizvodi – Vatrometi, kategorije F1, F2 i F3 – 2. dio: Kategorije i tipovi vatrometa (EN 15947-2:2015)  
Pyrotechnic articles – Fireworks, Categories F1, F2, and F3 – Part 2: Categories and types of firework (EN 15947-2:2015)  
- zamijenjena s: HRN EN 15947-2:2022

HRN EN 15947-3:2016 en  
Pirotehnički proizvodi – Vatrometi, kategorije F1, F2 i F3 – 3. dio: Minimalni zahtjevi za označavanje (EN 15947-3:2015)  
Pyrotechnic articles – Fireworks, Categories F1, F2, and F3 – Part 3: Minimum labelling requirements (EN 15947-3:2015)  
- zamijenjena s: HRN EN 15947-3:2022

HRN EN 15947-4:2016 en  
Pirotehnički proizvodi – Vatrometi, kategorije F1, F2 i F3 – 4. dio: Metode ispitivanja (EN 15947-4:2015)  
Pyrotechnic articles – Fireworks, Categories F1, F2 and F3 – Part 4: Test methods (EN 15947-4:2015)  
- zamijenjena s: HRN EN 15947-4:2022

HRN EN 15947-5:2016 en  
Pirotehnički proizvodi – Vatrometi, kategorije F1, F2 i F3 – 5. dio: Zahtjevi za konstrukciju i svojstva (EN 15947-5:2015)  
Pyrotechnic articles – Fireworks, Categories F1, F2, and F3 – Part 5: Requirements for construction and performance (EN 15947-5:2015)  
- zamijenjena s: HRN EN 15947-5:2022

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

HRN EN 16072:2015 en  
Inteligentni transportni sustavi – Elektronička sigurnost – Paneuropski operativni zahtjevi za hitne elektroničke pozive iz vozila (EN 16072:2015)  
Intelligent transport systems – ESafety – Pan-European eCall operating requirements (EN 16072:2015)  
- zamijenjena s: HRN EN 16072:2022

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

HRN EN ISO 128-3:2020 en  
Tehnička dokumentacija proizvoda – Osnovna načela prikazivanja – 3. dio: Pogledi, presjeci i rezovi (ISO 128-3:2020; EN ISO 128-3:2020)  
Technical product documentation – General principles of representation – Part 3: Views, sections and cuts (ISO 128-3:2020; EN ISO 128-3:2020)  
- zamijenjena s: HRN EN ISO 128-3:2022

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

HRN ISO 21931-1:2011 en  
Održivost pri gradnji zgrada – Metodološki okvir za ocjenjivanje svojstva građevina s obzirom na okoliš – 1. dio: Zgrade (ISO 21931-1:2010)  
Sustainability in building construction – Framework for methods of assessment of the environmental performance of construction works – Part 1: Buildings (ISO 21931-1:2010)  
- zamijenjena s: HRN ISO 21931-1:2022

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

HRN EN 12808-1:2008 en  
Mase za fugiranje – 1. dio: Određivanje otpornosti na kemikalije ljepila na osnovi reakcijskih smola (EN 12808-1:2008)  
Grouts for tiles – Part 1: Determination of chemical resistance of reaction resin mortars (EN 12808-1:2008)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 12808-2:2008 en  
Mase za fugiranje – 2. dio: Određivanje otpornosti na abraziju (EN 12808-2:2008)  
Grouts for tiles – Part 2: Determination of resistance to abrasion (EN 12808-2:2008)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 12808-3:2008 en  
Mase za fugiranje – 3. dio: Određivanje čvrstoće pri savijanju i tlačne čvrstoće (EN 12808-3:2008)  
Grouts for tiles – Part 3: Determination of flexural and compressive strength (EN 12808-3:2008)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 12808-4:2010 en  
Mase za sljubnice – 4. dio: Određivanje skupljanja (EN 12808-4:2009)  
Grouts for tiles – Part 4: Determination of shrinkage (EN 12808-4:2009)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 12808-4:2010/Ispr.1:2011 en  
Mase za sljubnice – 4. dio: Određivanje skupljanja (EN 12808-4:2009/AC:2011)  
Grouts for tiles – Part 4: Determination of shrinkage (EN 12808-4:2009/AC:2011)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 12808-5:2008 en  
Mase za fugiranje – 5. dio: Određivanje upijanja vode (EN 12808-5:2008)  
Grouts for tiles – Part 5: Determination of water absorption (EN 12808-5:2008)  
- zamijenjena s: HRN EN 13888-2:2022

HRN EN 13888:2010 en  
Mase za fugiranje keramičkih pločica i ploča – Zahtjevi, vrednovanje sukladnosti, razredba i označavanje (EN 13888:2009)  
Grout for tiles – Requirements, evaluation of conformity, classification and designation (EN 13888:2009)  
- zamijenjena s: HRN EN 13888-1:2022

## **HZN/TO 557, Zaštitna odjeća**

HRN EN ISO 6942:2003 en  
Zaštitna odjeća – Zaštita od topline i vatre – Metoda ispitivanja: Procjena jednoslojnih i višeslojnih materijala pri izlaganju izvoru toplinskog zračenja (ISO 6942:2002; EN ISO 6942:2002)  
Protective clothing – Protection against heat and fire – Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat (ISO 6942:2002; EN ISO 6942:2002)  
- zamijenjena s: HRN EN ISO 6942:2022

## **HZN/TO 580, Pribor za prvu pomoć**

HRN 1112:2001 hr  
Pribor za prvu pomoć – Kutija za pribor prve pomoći  
First aid material – First aid box  
- zamijenjena s: HRN 1112:2022

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

HRN EN 60684-3-214:2014 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 214. list: Toplinski skupljajuće poliolefinske navlake, bez usporenog gorenja, debele i srednje debele stijenke (IEC 60684-3-214:2013; EN 60684-3-214:2014)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 214: Heat-shrinkable, polyolefin sleeving, not flame retarded, thick and medium wall (IEC 60684-3-214:2013; EN 60684-3-214:2014)  
- zamijenjena s: HRN EN IEC 60684-3-214:2019

HRN EN 60684-3-216:2008 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 216. list: Toplinski skupljajuće navlake s usporenim gorenjem i ograničenom opasnošću od vatre (IEC 60684-3-216:2001+am1:2005+Corr.:2003; EN 60684-3-216:2005)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 216: Heat-shrinkable, flame-retarded, limited-fire-hazard sleeving (IEC 60684-3-216:2001+am1:2005+Corr.:2003; EN 60684-3-216:2005)  
- zamijenjena s: HRN EN IEC 60684-3-216:2019

HRN EN 60684-3-216:2008/A2:2014 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 216. list: Toplinski skupljajuće navlake s usporenim gorenjem i ograničenom opasnošću od vatre (IEC 60684-3-216:2001/am2:2013; EN 60684-3-216:2005/A2:2014)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 216: Heat-shrinkable, flame-retarded, limited-fire hazard sleeving (IEC 60684-3-216:2001/am2:2013; EN 60684-3-216:2005/A2:2014)  
- zamijenjena s: HRN EN IEC 60684-3-216:2019

HRN EN 60684-3-247:2014 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 247. list: Toplinski skupljajuće poliolefinske navlake s dvostrukom stijenkom, neotporne na gorenje, s debelim i srednjim stijenkama (IEC 60684-3-247:2011; EN 60684-3-247:2011)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 247: Heat-shrinkable polyolefin sleeving; dual wall, not flame retarded, thick and medium wall (IEC 60684-3-247:2011; EN 60684-3-247:2011)  
- zamijenjena s: HRN EN IEC 60684-3-247:2019

HRN EN 60684-3-247:2014/A1:2017 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 247. list: Toplinski skupljajuće poliolefinske navlake s dvostrukom stijenkom, neotporne na gorenje, s debelim i srednjim stijenkama (IEC 60684-3-247:2011/am1:2016; EN 60684-3-247:2011/A1:2017)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 247: Heat-shrinkable polyolefin sleeving, dual wall, not flame retarded, thick and medium wall (IEC 60684-3-247:2011/am1:2016; EN 60684-3-247:2011/A1:2017)  
- zamijenjena s: HRN EN IEC 60684-3-247:2019

HRN EN 60684-3-280:2013 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 280. list: Toplinski skupljajuće poliolefinske navlake otporne na vučenje (IEC 60684-3-280:2010; EN 60684-3-280:2010)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 280: Heat-shrinkable, polyolefin sleeving, anti-tracking (IEC 60684-3-280:2010; EN 60684-3-280:2010)  
- zamijenjena s: HRN EN IEC 60684-3-280:2019

HRN EN 60684-3-280:2013/A1:2014 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 280. list: Toplinski skupljajuće poliolefinske navlake otporne na vučenje (IEC 60684-3-280:2010/am1:2013; EN 60684-3-280:2010/A1:2014)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 280: Heat-shrinkable, polyolefin sleeving, anti-tracking (IEC 60684-3-280:2010/am1:2013; EN 60684-3-280:2010/A1:2014)  
- zamijenjena s: HRN EN IEC 60684-3-280:2019

HRN EN 60684-3-283:2013 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – Toplinski skupljajuće poliolefinske navlake za izolaciju šipki za sabirnice (IEC 60684-3-283:2010; EN 60684-3-283:2011)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 283: Heat-shrinkable, polyolefin sleeving, for bus-bar insulation (IEC 60684-3-283:2010; EN 60684-3-283:2011)  
- zamijenjena s: HRN EN IEC 60684-3-283:2019

HRN EN 60684-3-283:2013/A1:2014 en  
Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – Toplinski skupljajuće poliolefinske navlake za izolaciju šipki za sabirnice (IEC 60684-3-283:2010/am1:2013; EN 60684-3-283:2011/A1:2014)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 283: Heat-shrinkable, polyolefin sleeving, for bus-bar insulation (IEC 60684-3-283:2010/am1:2013; EN 60684-3-283:2011/A1:2014)  
- zamijenjena s: HRN EN IEC 60684-3-283:2019

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

HRN EN 61167:2016 en  
Metal-halogene žarulje – Izvedbeni zahtjevi (IEC 61167:2015, MOD; EN 61167:2016)  
Metal halide lamps – Performance specification (IEC 61167:2015, MOD; EN 61167:2016)  
- zamijenjena s: HRN EN 61167:2018

## **HZN/TO E36, Izolatori**

HRN EN 60507:2008 en  
Ispitivanja umjetnog onečišćenja na visokonaponskim izolatorima za upotrebu u izmjeničnim sustavima (IEC 60507:1991; EN 60507:1993)  
Artificial pollution tests on high-voltage insulators to be used on a.c. systems (IEC 60507:1991; EN 60507:1993)  
- zamijenjena s: HRN EN 60507:2014

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

HRN EN 50539-11:2014 en  
Prenaponske zaštitne naprave za niski napon – Prenaponske zaštitne naprave za posebnu primjenu uključujući istosmjernu struju – 11. dio: Zahtjevi i ispitivanja za SPD-e u fotonaponskim primjenama (EN 50539-11:2013)  
Low-voltage surge protective devices – Surge protective devices for specific application including d.c. – Part 11: Requirements and tests for SPDs in photovoltaic applications (EN 50539-11:2013)  
- zamijenjena s: HRN EN 61643-31:2019

HRN EN 50539-11:2014/A1:2015 en  
Prenaponske zaštitne naprave za niski napon – Prenaponske zaštitne naprave za posebnu primjenu uključujući istosmjernu struju – 11. dio: Zahtjevi i ispitivanja za SPD-e u fotonaponskim primjenama (EN 50539-11:2013/A1:2014)  
Low-voltage surge protective devices – Surge protective devices for specific application including d.c. – Part 11: Requirements and tests for SPDs in photovoltaic applications (EN 50539-11:2013/A1:2014)  
- zamijenjena s: HRN EN 61643-31:2019



## HZN/TO E55, *Žice za namote*

HRN EN 60317-0-8:2013 en  
Specifikacije pojedinih vrsta žica za namote – Dio 0-8: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena žica omotana poliesterskim staklenim vlaknima, impregnirana lakom ili smolom ili neimpregnirana (IEC 60317-0-8:2012; EN 60317-0-8:2012)  
Specifications for particular types of winding wires – Part 0-8: General requirements – Polyester glass fibre wound, resin or varnish impregnated or not impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-8:2012; EN 60317-0-8:2012)  
- zamijenjena s: HRN EN 60317-0-8:2019

## HZN/TO E56, *Pouzdanost*

HRN EN 31010:2010 en  
Upravljanje rizikom – Metode procjene rizika (IEC/ISO 31010:2009; EN 31010:2010)  
Risk management – Risk assessment techniques (IEC/ISO 31010:2009; EN 31010:2010)  
- zamijenjena s: HRN EN IEC 31010:2019

HRN EN 62402:2010 en  
Upravljanje starenjem opreme – Upute za primjenu (IEC 62402:2007; EN 62402:2007)  
Obsolescence management – Application guide (IEC 62402:2007; EN 62402:2007)  
- zamijenjena s: HRN EN IEC 62402:2019

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

HRN EN 61968-4:2008 en  
Integracija aplikacija u elektroprivredama – Sučelja za sustave upravljanja u distribuciji – 4. dio: Sučelja za zapise i za sustav za upravljanje imovinom (IEC 61968-4:2007; EN 61968-4:2007)  
Application integration at electric utilities – System interfaces for distribution management – Part 4: Interfaces for records and asset management (IEC 61968-4:2007; EN 61968-4:2007)  
- zamijenjena s: HRN EN IEC 61968-4:2019

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

HRN EN 60335-2-56:2008 en  
Kućanski i slični električni aparati – Sigurnost – Dio 2-56: Posebni zahtjevi za projektore i slične aparate (IEC 60335-2-56:2002+am1:2008; EN 60335-2-56:2003+A1:2008)  
Household and similar electrical appliances – Safety – Part 2-56: Particular requirements for projectors and similar appliances (IEC 60335-2-56:2002+am1:2008; EN 60335-2-56:2003+A1:2008)  
- bez zamjene

HRN EN 60335-2-56:2008/A2:2015 en  
Kućanski i slični električni aparati – Sigurnost – Dio 2-56: Posebni zahtjevi za projektore i slične aparate (IEC 60335-2-56:2002/am2:2014; EN 60335-2-56:2003/A2:2014)  
Household and similar electrical appliances – Safety – Part 2-56: Particular requirements for projectors and similar appliances (IEC 60335-2-56:2002/am2:2014; EN 60335-2-56:2003/A2:2014)  
- bez zamjene

HRN EN 62115:2008 en  
Električne igračke – Sigurnost (IEC 62115:2003, MOD+am1:2004; EN 62115:2005)  
Electric toys – Safety (IEC 62115:2003, MOD+am1:2004; EN 62115:2005)  
- zamijenjena s: HRN EN IEC 62115:2020

HRN EN 62115:2008/A11:2013 en  
Električne igračke – Sigurnost (EN 62115:2005/A11:2012)  
Electric toys – Safety (EN 62115:2005/A11:2012)  
- zamijenjena s: HRN EN IEC 62115:2020

HRN EN 62115:2008/A12:2015 en  
Električne igračke – Sigurnost (EN 62115:2005/A12:2015)  
Electric toys – Safety (EN 62115:2005/A12:2015)  
- zamijenjena s: HRN EN IEC 62115:2020

HRN EN 62115:2008/A2:2013 en  
Električne igračke – Sigurnost (IEC 62115:2003/am2:2010, MOD; EN 62115:2005/A2:2011)  
Electric toys – Safety (IEC 62115:2003/am2:2010, MOD; EN 62115:2005/A2:2011)  
- zamijenjena s: HRN EN IEC 62115:2020

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

HRN HD 60364-5-56:2011 hr  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (IEC 60364-5-56:2009; HD 60364-5-56:2010)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (IEC 60364-5-56:2009; HD 60364-5-56:2010)  
- zamijenjena s: HRN HD 60364-5-56:2019

HRN HD 60364-5-56:2011/A11:2014 en  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (HD 60364-5-56:2010/A11:2013)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (HD 60364-5-56:2010/A11:2013)  
- zamijenjena s: HRN HD 60364-5-56:2019

HRN HD 60364-5-56:2011/A1:2012 en  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (HD 60364-5-56:2010/A1:2011)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (HD 60364-5-56:2010/A1:2011)  
- zamijenjena s: HRN HD 60364-5-56:2019

HRN HD 60364-5-56:2011/A12:2017 en  
Niskonaponske električne instalacije – Dio 5-56: Odabir i ugradnja električne opreme – Instalacije za sigurnosne svrhe (HD 60364-5-56:2010/A12:2017)  
Low-voltage electrical installations – Part 5-56: Selection and erection of electrical equipment – Safety services (HD 60364-5-56:2010/A12:2017)  
- zamijenjena s: HRN HD 60364-5-56:2019

HRN HD 60364-7-721:2010 en  
Niskonaponske električne instalacije – Dio 7-721: Zahtjevi za posebne instalacije ili prostore – Električne instalacije u stambenim autoprikolicama i motornim stambenim autoprikolicama (IEC 60364-7-721:2007, MOD; HD 60364-7-721:2009)  
Low voltage electrical installations – Part 7-721: Requirements for special installations or locations – Electrical installations in caravans and motor caravans (IEC 60364-7-721:2007, MOD; HD 60364-7-721:2009)  
- zamijenjena s: HRN HD 60364-7-721:2019

HRN HD 60364-7-721:2010/Ispr.1:2014 en  
Niskonaponske električne instalacije – Dio 7-721: Zahtjevi za posebne instalacije ili prostore – Električne instalacije u stambenim autoprikolicama i motornim stambenim autoprikolicama (HD 60364-7-721:2009/AC:2010)  
Low-voltage electrical installations – Part 7-721: Requirements for special installations or locations – Electrical installations in caravans and motor caravans (HD 60364-7-721:2009/AC:2010)  
- zamijenjena s: HRN HD 60364-7-721:2019

HRN HD 60364-8-1:2015 en  
Niskonaponske električne instalacije – Dio 8-1: Energetska učinkovitost (IEC 60364-8-1:2014; HD 60364-8-1:2015)  
Low voltage electrical installations – Part 8-1: Energy efficiency (IEC 60364-8-1:2014; HD 60364-8-1:2015)  
- zamijenjena s: HRN HD 60364-8-1:2019

## HZN/TO E69, *Cestovna i industrijska električna vozila*

HRN EN 61851-1:2012 en  
Sustav kontaktnog punjenja električnih vozila – 1. dio: Opći zahtjevi (IEC 61851-1:2010; EN 61851-1:2011)  
Electric vehicle conductive charging system – Part 1: General requirements (IEC 61851-1:2010; EN 61851-1:2011)  
- zamijenjena s: HRN EN IEC 61851-1:2019

## HZN/TO E70, *Stupnjevi zaštite kućištem*

HRN EN 50102:2000 en  
Stupnjevi zaštite za električnu opremu osigurani kućištima od vanjskih mehaničkih udara (IK Code) (EN 50102:1995+A1:1998)  
Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK Code) (EN 50102:1995+A1:1998)  
- bez zamjene

HRN EN 50102:2000/Ispr.1:2014 en  
Stupnjevi zaštite za električnu opremu osigurani kućištima od vanjskih mehaničkih udara (IK Code) (EN 50102:1995/AC:2002)  
Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (EN 50102:1995/AC:2002)  
- bez zamjene

HRN EN 50102:2000/Ispr.2:2014 en  
Stupnjevi zaštite za električnu opremu osigurani kućištima od vanjskih mehaničkih udara (IK Code) (EN 50102:1995/A1:1998/AC:2002)  
Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (EN 50102:1995/A1:1998/AC:2002)  
- bez zamjene

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

HRN EN 61482-1-1:2011 en  
Rad pod naponom – Zaštitna odjeća radnika za zaštitu od toplinskih učinaka električnog luka – Dio 1-1: Ispitne metode – Metoda 1: Određivanje razreda električnog luka (ATPV ili EBT50) vatrootpornih materijala za odjeću (IEC 61482-1-1:2009; EN 61482-1-1:2009)  
Live working – Protective clothing against the thermal hazards of an electric arc – Part 1-1: Test methods – Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing (IEC 61482-1-1:2009; EN 61482-1-1:2009)  
- zamijenjena s: HRN EN IEC 61482-1-1:2019

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

HRN EN 61400-1:2008 en  
Vjetroagregati – 1. dio: Zahtjevi za projektiranje (IEC 61400-1:2005; EN 61400-1:2005)  
Wind turbines – Part 1: Design requirements (IEC 61400-1:2005; EN 61400-1:2005)  
- zamijenjena s: HRN EN IEC 61400-1:2019

HRN EN 61400-1:2008/A1:2011 en  
Vjetroagregati – 1. dio: Zahtjevi za projektiranje (IEC 61400-1:2005/am1:2010; EN 61400-1:2005/A1:2010)  
Wind turbines – Part 1: Design requirements (IEC 61400-1:2005/am1:2010; EN 61400-1:2005/A1:2010)  
- zamijenjena s: HRN EN IEC 61400-1:2019

HRN EN 61400-3:2011 en  
Vjetroagregati – 3. dio: Zahtjevi za projektiranje vjetroagregata izvan teritorija (offshore) (IEC 61400-3:2009; EN 61400-3:2009)  
Wind turbines – Part 3: Design requirements for offshore wind turbines (IEC 61400-3:2009; EN 61400-3:2009)  
- zamijenjena s: HRN EN IEC 61400-3-1:2019

HRN EN 61400-21:2011 en  
Vjetroagregati – 21. dio: Mjerenje i ocjena kvalitete električne energije vjetroagregata spojenih na mrežu (IEC 61400-21:2008; EN 61400-21:2008)  
Wind turbines – Part 21: Measurement and assessment of power quality characteristics of grid connected wind turbines (IEC 61400-21:2008; EN 61400-21:2008)  
- zamijenjena s: HRN EN IEC 61400-21-1:2019

HRN EN 61400-24:2011 en  
Vjetroagregati – 24. dio: Zaštita od munje (IEC 61400-24:2010; EN 61400-24:2010)  
Wind turbines – Part 24: Lightning protection (IEC 61400-24:2010; EN 61400-24:2010)  
- zamijenjena s: HRN EN IEC 61400-24:2019

### **HZN/TO E99, Električne instalacije iznad 1 kV izmjenične i 1,5 kV istosmjernje struje**

HRN EN 60071-1:2008 en  
Usklađivanje izolacije – 1. dio: Definicije, načela i pravila (IEC 60071-1:2006; EN 60071-1:2006)  
Insulation co-ordination – Part 1: Definitions, principles and rules (IEC 60071-1:2006; EN 60071-1:2006)  
- zamijenjena s: HRN EN IEC 60071-1:2019

HRN EN 60071-1:2008/A1:2011 en  
Usklađivanje izolacije – 1. dio: Definicije, načela i pravila (IEC 60071-1:2006/am1:2010; EN 60071-1:2006/A1:2010)  
Insulation co-ordination – Part 1: Definitions, principles and rules (IEC 60071-1:2006/am1:2010; EN 60071-1:2006/A1:2010)  
- zamijenjena s: HRN EN IEC 60071-1:2019

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

HRN EN 50413:2012 hr-en  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz - 300 GHz) (EN 50413:2008)  
Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz) (EN 50413:2008)  
- zamijenjena s: HRN EN 50413:2019

HRN EN 50413:2012/A1:2013 hr-en  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz - 300 GHz) (EN 50413:2008/A1:2013)  
Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz) (EN 50413:2008/A1:2013)  
- zamijenjena s: HRN EN 50413:2019

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

HRN EN 55015:2013 en  
Granice i metode mjerenja značajka radiosmetnja električnih rasvjetnih i sličnih uređaja (CISPR 15:2013+IS1:2013+IS2:2013; EN 55015:2013)  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013+IS1:2013+IS2:2013; EN 55015:2013)  
- zamijenjena s: HRN EN IEC 55015:2019

HRN EN 55015:2013/A1:2015 en  
Granice i metode mjerenja značajka radiosmetnja električnih rasvjetnih i sličnih uređaja (CISPR 15:2013/am1:2015; EN 55015:2013/A1:2015)  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013/am1:2015; EN 55015:2013/A1:2015)  
- zamijenjena s: HRN EN IEC 55015:2019

HRN EN 55016-1-1:2011 en  
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 1-1: Uređaji za mjerenje radiosmetnja i otpornosti – Mjerni uređaji (CISPR 16-1-1:2010+am1:2010; EN 55016-1-1:2010+A1:2010)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus (CISPR 16-1-1:2010+am1:2010; EN 55016-1-1:2010+A1:2010)  
- zamijenjena s: HRN EN IEC 55016-1-1:2019

HRN EN 55016-1-1:2011/A2:2014 en  
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 1-1: Uređaji za mjerenje radiosmetnja i otpornosti – Mjerni uređaji (CISPR 16-1-1:2010/am2:2014; EN 55016-1-1:2010/A2:2014)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus (CISPR 16-1-1:2010/am2:2014; EN 55016-1-1:2010/A2:2014)  
- zamijenjena s: HRN EN IEC 55016-1-1:2019

HRN EN 55020:2009 hr-en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (CISPR 20:2006; EN 55020:2007)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (CISPR 20:2006; EN 55020:2007)  
- zamijenjena s: HRN EN 55035:2017

HRN EN 55020:2009/A11:2012 en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (EN 55020:2007/A11:2011)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (EN 55020:2007/A11:2011)  
- zamijenjena s: HRN EN 55035:2017

HRN EN 55020:2009/A12:2016 en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (EN 55020:2007/A12:2016)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (EN 55020:2007/A12:2016)  
- zamijenjena s: HRN EN 55035:2017

- HRN EN 55020:2009/IS1:2014 en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (EN 55020:2007/IS1:2009)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (EN 55020:2007/IS1:2009)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55020:2009/IS2:2014 en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (EN 55020:2007/IS2:2010)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (EN 55020:2007/IS2:2010)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55020:2009/IS3:2014 en  
Zvučni i televizijski radiodifuzijski prijamnici i prateća oprema – Značajke otpornosti – Granice i metode mjerenja (EN 55020:2007/IS3:2014)  
Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement (EN 55020:2007/IS3:2014)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55024:2011 en  
Uređaji informacijske tehnologije – Značajke otpornosti – Granice i metode mjerenja (CISPR 24:2010; EN 55024:2010)  
Information technology equipment – Immunity characteristics – Limits and methods of measurement (CISPR 24:2010; EN 55024:2010)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55024:2011/A1:2015 en  
Uređaji informacijske tehnologije – Značajke otpornosti – Granice i metode mjerenja (CISPR 24:2010/A1:2015; EN 55024:2010/A1:2015)  
Information technology equipment – Immunity characteristics – Limits and methods of measurement (CISPR 24:2010/A1:2015; EN 55024:2010/A1:2015)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55103-2:2010 en  
Elektromagnetska kompatibilnost – Norma porodice proizvoda za audio, video, audiovizualne aparate i rasvjetne aparate za zabavu – 2. dio: Otpornost (EN 55103-2:2009)  
Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 2: Immunity (EN 55103-2:2009)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 55103-2:2010/IS1:2015 en  
Elektromagnetska kompatibilnost – Norma porodice proizvoda za audio, video, audiovizualne aparate i rasvjetne aparate za zabavu – 2. dio: Otpornost (EN 55103-2:2009/IS1:2012)  
Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 2: Immunity (EN 55103-2:2009/IS1:2012)  
- zamijenjena s: HRN EN 55035:2017
- HRN EN 61000-4-18:2008 en  
Elektromagnetska kompatibilnost (EMC) – Dio 4-18: Ispitne i mjerne tehnike – Ispitivanje otpornosti na prigušene oscilirajuće valove (IEC 61000-4-18:2006; EN 61000-4-18:2007)  
Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test (IEC 61000-4-18:2006; EN 61000-4-18:2007)  
- zamijenjena s: HRN EN IEC 61000-4-18:2019
- HRN EN 61000-4-18:2008/A1:2011 en  
Elektromagnetska kompatibilnost (EMC) – Dio 4-18: Ispitne i mjerne tehnike – Ispitivanje otpornosti na prigušene oscilirajuće valove (IEC 61000-4-18:2006/am1:2010; EN 61000-4-18:2007/A1:2010)  
Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test (IEC 61000-4-18:2006/am1:2010; EN 61000-4-18:2007/A1:2010)  
- zamijenjena s: HRN EN IEC 61000-4-18:2019
- HRN EN 61000-4-18:2008/Ispr.1:2014 en  
Elektromagnetska kompatibilnost (EMC) – Dio 4-18: Ispitne i mjerne tehnike – Ispitivanje otpornosti na prigušene oscilirajuće valove (EN 61000-4-18:2007/AC:2007)  
Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test (EN 61000-4-18:2007/AC:2007)  
- zamijenjena s: HRN EN IEC 61000-4-18:2019
- HRN EN 61000-6-4:2008 en  
Elektromagnetska kompatibilnost (EMC) – Dio 6-4: Norme srodnih područja – Norma emisije za industrijska područja (IEC 61000-6-4:2006; EN 61000-6-4:2007)  
Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4:2006; EN 61000-6-4:2007)  
- zamijenjena s: HRN EN IEC 61000-6-4:2019
- HRN EN 61000-6-4:2008/A1:2011 en  
Elektromagnetska kompatibilnost (EMC) – Dio 6-4: Norme srodnih područja – Norma emisije za industrijsku okolinu (IEC 61000-6-4:2006/am1:2010; EN 61000-6-4:2007/A1:2011)  
Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4:2006/am1:2010; EN 61000-6-4:2007/A1:2011)  
- zamijenjena s: HRN EN IEC 61000-6-4:2019
- HZN/TU C1, Kemikalije, kemijsko inženjerstvo, poljoprivredni i prehrambeni proizvodi 1**
- HRN EN ISO 11664-2:2012 en  
Kolorimetrija – 2. dio: CIE standardi izvora svjetlosti (ISO 11664-2:2007; EN ISO 11664-2:2011)  
Colorimetry – Part 2: CIE standard illuminants (ISO 11664-2:2007; EN ISO 11664-2:2011)  
- zamijenjena s: HRN EN ISO/CIE 11664-2:2022
- HRN EN ISO 11664-6:2016 en  
Kolorimetrija – 6. dio: Formula za izračunavanje kolorimetrijske razlike CIEDE2000 (ISO/CIE 11664-6:2014; EN ISO 11664-6:2016)  
Colorimetry – Part 6: CIEDE2000 Colour-difference formula (ISO/CIE 11664-6:2014; EN ISO 11664-6:2016)  
- zamijenjena s: HRN EN ISO/CIE 11664-6:2022
- HRN EN ISO 12872:2014 en  
Maslinova ulja i ulja od komine masline – Određivanje udjela 2-gliceril monopalmitata (ISO 12872:2010; EN ISO 12872:2014)  
Olive oils and olive-pomace oils – Determination of the 2-glycerol monopalmitate content (ISO 12872:2010; EN ISO 12872:2014)  
- zamijenjena s: HRN EN ISO 12872:2022
- HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1**
- HRN EN ISO 9333:2008 en  
Stomatologija – Materijali za lemljenje (ISO 9333:2006; EN ISO 9333:2006)  
Dentistry – Brazing materials (ISO 9333:2006; EN ISO 9333:2006)  
- zamijenjena s: HRN EN ISO 9333:2022
- HRN EN ISO 18618:2018 en  
Stomatologija – Interoperabilnost CAD/CAM sustava (ISO 18618:2018; EN ISO 18618:2018)  
Dentistry – Interoperability of CAD/CAM-systems (ISO 18618:2018; EN ISO 18618:2018)  
- zamijenjena s: HRN EN ISO 18618:2022
- HRN EN ISO 22674:2016 en  
Stomatologija – Metalni materijali za fiksne i mobilne restoracije i naprave (ISO 22674:2016; EN ISO 22674:2016)  
Dentistry – Metallic materials for fixed and removable restorations and appliances (ISO 22674:2016; EN ISO 22674:2016)  
- zamijenjena s: HRN EN ISO 22674:2022
- HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1**
- HRN EN 16603-10-03:2014 en  
Svemirsko inženjerstvo – Ispitivanje (EN 16603-10-03:2014)  
Space engineering – Testing (EN 16603-10-03:2014)  
- zamijenjena s: HRN EN 16603-10-03:2022
- HRN EN 16603-20-07:2014 en  
Svemirsko inženjerstvo – Elektromagnetska kompatibilnost (EN 16603-20-07:2014)  
Space engineering – Electromagnetic compatibility (EN 16603-20-07:2014)  
- zamijenjena s: HRN EN 16603-20-07:2022

## HZN/TU U1, Opća elektrotehnika 1

HRN EN 60068-3-3:2008 en  
Ispitivanje utjecaja okoliša – 3. dio: Upute – Metode ispitivanja opreme na potresna (IEC 60068-3-3:1991; EN 60068-3-3:1993)  
Environmental testing – Part 3: Guidance – Seismic test methods for equipment (IEC 60068-3-3:1991; EN 60068-3-3:1993)  
- zamijenjena s: HRN EN IEC 60068-3-3:2019

HRN EN 60721-3-3:2008 en  
Razredba uvjeta okoliša – 3. dio: Razredba skupina utjecaja okoliša i njihove strogosti – Uporaba na stalnome mjestu zaštićenu od vremenskih utjecaja (IEC 60721-3-3:1994+am2:1996; EN 60721-3-3:1995+A2:1997)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 3: Stationary use at weatherprotected locations (IEC 60721-3-3:1994+am2:1996; EN 60721-3-3:1995+A2:1997)  
- zamijenjena s: HRN EN IEC 60721-3-3:2019

HRN EN 60721-3-4:2008 en  
Razredba uvjeta okoliša – 3. dio: Razredba skupina utjecaja okoliša i njihove strogosti – Uporaba na stalnome mjestu nezaštićenu od vremenskih utjecaja (IEC 60721-3-4:1995+am1:1996; EN 60721-3-4:1995+A1:1997)  
Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 4: Stationary use at non-weatherprotected locations (IEC 60721-3-4:1995+am1:1996; EN 60721-3-4:1995+A1:1997)  
- zamijenjena s: HRN EN IEC 60721-3-4:2019

HRN EN 81346-2:2010 en  
Industrijski sustavi, instalacije i oprema te industrijski proizvodi – Strukturiranje načela i referencijske oznake – 2. dio: Klasifikacija objekata i kodova za razrede (IEC 81346-2:2009; EN 81346-2:2009)  
Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes (IEC 81346-2:2009; EN 81346-2:2009)  
- zamijenjena s: HRN EN IEC 81346-2:2019

## HZN/TU W1, Energetska elektrotehnika 1

HRN HD 597 S1:2008 en  
Spojni kondenzatori i kapacitivni djelitelji (IEC 60358:1990; HD 597 S1:1992)  
Coupling capacitors and capacitors dividers (IEC 60358:1990; HD 597 S1:1992)  
- zamijenjena s: HRN EN IEC 60358-4:2018

HRN HD 597 S1:2008/Ispr.1:2012 en  
Spojni kondenzatori i kapacitivni djelitelji (HD 597 S1:1992/AC:1992)  
Coupling capacitors and capacitor dividers (HD 597 S1:1992/AC:1992)  
- zamijenjena s: HRN EN IEC 60358-4:2018

HRS ENV 50234:2011 en  
Električne instalacije za zemaljsko osvjetljenje u zrakoplovstvu – Bljeskalice – Specifikacije opreme i ispitivanja (ENV 50234:1997)  
Aeronautical ground lighting electrical installation – Flashing lights – Equipment specifications and tests (ENV 50234:1997)  
- bez zamjene

HRN EN 50342-2:2008 en  
Olovni akumulatori za pokretanje – 2. dio: Dimenzije akumulatora i označavanje stezaljki (EN 50342-2:2007)  
Lead-acid starter batteries – Part 2: Dimensions of batteries and marking of terminals (EN 50342-2:2007)  
- zamijenjena s: HRN EN 50342-2:2019

HRN EN 50342-2:2008/A1:2015 en  
Olovni akumulatori za pokretanje – 2. dio: Dimenzije akumulatora i označavanje stezaljki (EN 50342-2:2007/A1:2014)  
Lead-acid starter batteries – Part 2: Dimensions of batteries and marking of terminals (EN 50342-2:2007/A1:2014)  
- zamijenjena s: HRN EN 50342-2:2019

HRN EN 50504:2008 en  
Validacija elektrolučne opreme za zavarivanje (EN 50504:2008)  
Validation of arc welding equipment (EN 50504:2008)  
- zamijenjena s: HRN EN IEC 60974-14:2018

HRN EN 50597:2015 en  
Potrošnja energije automata za prodaju (EN 50597:2015)  
Energy consumption of vending machines (EN 50597:2015)  
- zamijenjena s: HRN EN 50597:2018

HRS CLC/TS 50677:2019 en  
Perilice rublja i perilice-sušilice za kućansku i sličnu uporabu – Metoda za određivanje učinkovitosti ispiranja mjerenjem sadržaja površinsko aktivnih tvari na tekstilnim materijalima (CLC/TS 50677:2019)  
Clothes washing machines and washer-dryers for household and similar use – Method for the determination of rinsing effectiveness by measurement of the surfactant content at textile materials (CLC/TS 50677:2019)  
- bez zamjene

HRN EN 60193:2008 en  
Hidraulične turbine, pumpe za spremnike i turbinske pumpe – Modelska prijamna ispitivanja (IEC 60193:1999; EN 60193:1999)  
Hydraulic turbines, storage pumps and pump-turbines – Model acceptance tests (IEC 60193:1999; EN 60193:1999)  
- zamijenjena s: HRN EN IEC 60193:2019

HRN EN 60704-2-3:2004 en  
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – Dio 2-3: Posebni zahtjevi za perilice posuđa (IEC 60704-2-3:2001; EN 60704-2-3:2002)  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-3: Particular requirements for dishwashers (IEC 60704-2-3:2001; EN 60704-2-3:2002)  
- zamijenjena s: HRN EN 60704-2-3:2019

HRN EN 60704-2-3:2004/A1:2008 en  
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – Dio 2-3: Posebni zahtjevi za perilicu posuđa (IEC 60704-2-3:2001/am1:2005; EN 60704-2-3:2002/A1:2005)  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-3: Particular requirements for dishwashers (IEC 60704-2-3:2001/am1:2005; EN 60704-2-3:2002/A1:2005)  
- zamijenjena s: HRN EN 60704-2-3:2019

HRN EN 60704-3:2008 en  
Kućanski i slični električni aparati – Ispitne odredbe za određivanje uzdušne buke – 3. dio: Postupak za određivanje i potvrđivanje iskazanih vrijednosti emisije buke (IEC 60704-3:2006; EN 60704-3:2006)  
Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 3: Procedure for determining and verifying declared noise emission values (IEC 60704-3:2006; EN 60704-3:2006)  
- zamijenjena s: HRN EN 60704-3:2019

HRN EN 60745-2-17:2013 en  
Ručni elektromotorni alati – Sigurnost – Dio 2-17: Posebni zahtjevi za utorne i ravninske glodalice (IEC 60745-2-17:2010, MOD; EN 60745-2-17:2010)  
Hand-held motor-operated electric tools – Safety – Part 2-17: Particular requirements for routers and trimmers (IEC 60745-2-17:2010, MOD; EN 60745-2-17:2010)  
- zamijenjena s: HRN EN 62841-2-17:2018

HRN EN 60974-5:2013 en  
Oprema za elektrolučno zavarivanje – 5. dio: Dodavači žice (IEC 60974-5:2013; EN 60974-5:2013)  
Arc welding equipment – Part 5: Wire feeders (IEC 60974-5:2013; EN 60974-5:2013)  
- zamijenjena s: HRN EN IEC 60974-5:2019

HRN EN 61558-1:2009 en  
Sigurnost energetskih transformatora, mrežnih opskrbnih jedinica, prigušnica i sličnih proizvoda – 1. dio: Opći zahtjevi i ispitivanja (IEC 61558-1:2005; EN 61558-1:2005)  
Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests (IEC 61558-1:2005; EN 61558-1:2005)  
- zamijenjena s: HRN EN IEC 61558-1:2019

HRN EN 61558-1:2009/A1:2011 en  
Sigurnost energetskih transformatora, mrežnih opskrbnih jedinica, prigušnica i sličnih proizvoda – 1. dio: Opći zahtjevi i ispitivanja (IEC 61558-1:2005/am1:2009; EN 61558-1:2005/A1:2009)  
Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests (IEC 61558-1:2005/am1:2009; EN 61558-1:2005/A1:2009)  
- zamijenjena s: HRN EN IEC 61558-1:2019

HRN EN 61558-1:2009/Isp.1:2012 en

Sigurnost energetskih transformatora, mrežnih opskrbnih jedinica, prigušnica i sličnih proizvoda – 1. dio: Opći zahtjevi i ispitivanja (EN 61558-1:2005/AC:2006)  
Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests (EN 61558-1:2005/AC:2006)  
- zamijenjena s: HRN EN IEC 61558-1:2019

HRN EN 62097:2011 en

Hidraulični strojevi, radijalni i aksijalni – Metoda pretvorbe značajki iz modela u prototip (IEC 62097:2009; EN 62097:2009)  
Hydraulic machines, radial and axial – Performance conversion method from model to prototype (IEC 62097:2009; EN 62097:2009)  
- zamijenjena s: HRN EN IEC 62097:2019

HRN EN 62281:2017 en

Sigurnost primarnih i sekundarnih litijevih članaka i baterija tijekom transporta (IEC 62281:2016; EN 62281:2017)  
Safety of primary and secondary lithium cells and batteries during transport (IEC 62281:2016; EN 62281:2017)  
- zamijenjena s: HRN EN IEC 62281:2019

HRN EN 62364:2014 en

Hydraulic machines – Guide for dealing with hydro-abrasive erosion in Kaplan, Francis, and Pelton turbines (IEC 62364:2013; EN 62364:2013)  
- zamijenjena s: HRN EN IEC 62364:2019

HRN EN 62660-2:2014 en

Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing (IEC 62660-2:2010; EN 62660-2:2011)  
- zamijenjena s: HRN EN IEC 62660-2:2019

## 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 22, *Cestovna vozila*

U HZN Glasilu 6/2022 povučena je hrvatska norma HRN EN ISO 15118-2:2016 jer je CEN pogreškom povukao europsku normu EN ISO 15118-2:2016. S obzirom na to da je CEN reaktivirao europsku normu, odlučeno je da se reaktivira hrvatska norma HRN EN ISO 15118-2:2016 te ona ostaje na snazi kao hrvatska norma.

### HZN/TO 5, *Metalne cijevi i priključci*

- **umjesto**

HRN EN 1092-1:2018

Prirubnice i njihovi spojevi – Kružne prirubnice za cijevi, ventile, spojne dijelove i pribor, označene PN oznakom – 1. dio: Čelične prirubnice (EN 1092-1:2018)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 1: Steel flanges (EN 1092-1:2018)

- **treba biti**

HRN EN 1092-1:2018

Prirubnice i njihovi spojevi – Okrugle prirubnice za cijevi, ventile, spojne dijelove i pribor, označene prema PN-u – 1. dio: Čelične prirubnice (EN 1092-1:2018)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 1: Steel flanges (EN 1092-1:2018)

- **umjesto**

HRN EN 1092-4:2003

Prirubnice i njihovi spojevi – Kružne prirubnice za cijevi, ventile, spojne dijelove i opremu, označene PN oznakom – 4. dio: Prirubnice od aluminijskih legura (EN 1092-4:2002)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 4: Aluminium alloy flanges (EN 1092-4:2002)

- **treba biti**

HRN EN 1092-4:2003

Prirubnice i njihovi spojevi – Okrugle prirubnice za cijevi, ventile, spojne dijelove i opremu, označene prema PN-u – 4. dio: Prirubnice od aluminijskih legura (EN 1092-4:2002)  
Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 4: Aluminium alloy flanges (EN 1092-4:2002)

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

- **umjesto**

HRN EN 13205-5:2014

Profesionalna izloženost – Ocjena radnih značajka uzorkivača za mjerenje koncentracije lebdećih čestica u zraku – 5. dio: Ispitivanje radnih značajka uzorkivača za lebdeće čestice i usporedba uzorkivača na radnom mjestu (EN 13205-5:2014)  
Workplace exposure – Assessment of sampler performance for measurement of airborne particle concentrations – Part 5: Aerosol sampler performance test and sampler comparison carried out at workplaces (EN 13205-5:2014)

- **treba biti**

HRN EN 13205-5:2014

Profesionalna izloženost – Ocjena radnih značajka uzorkivača za mjerenje koncentracije lebdećih čestica u zraku – 5. dio: Ispitivanje radnih značajka uzorkivača za aerosole i usporedba uzorkivača na radnom mjestu (EN 13205-5:2014)  
Workplace exposure – Assessment of sampler performance for measurement of airborne particle concentrations – Part 5: Aerosol sampler performance test and sampler comparison carried out at workplaces (EN 13205-5:2014)

• **umjesto**  
HRN EN 14385:2008  
Emisije iz stacionarnih izvora – Određivanje ukupne emisije As, Cd, Cr, Co, Mn, Ni, Pb, Sb, Tl i V (EN 14385:2004)  
Stationary source emissions – Determination of the total emission of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V (EN 14385:2004)

• **treba biti**  
HRN EN 14385:2008  
Emisije iz nepokretnih izvora – Određivanje ukupne emisije As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl i V (EN 14385:2004)  
Stationary source emissions – Determination of the total emission of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V (EN 14385:2004)

• **umjesto**  
HRN EN 17346:2020  
Kvaliteta vanjskog zraka – Standardna metoda određivanja koncentracije amonijaka difuznim uzorkivačima (EN 17346:2020)  
Ambient Air Quality – Standard method for the determination of the concentration of ammonia by diffusive sampling (EN 17346:2020)

• **treba biti**  
HRN EN 17346:2020  
Vanjski zrak – Standardna metoda određivanja koncentracije amonijaka difuznim uzorkivačima (EN 17346:2020)  
Ambient air – Standard method for the determination of the concentration of ammonia using diffusive samplers (EN 17346:2020)

## **HZN/TO 502, Plinski uređaji**

• **umjesto**  
HRN EN 13203-4:2022  
Plinski uređaji za pripremu potrošne tople vode za kućanstva – 4. dio: Ocjenjivanje potrošnje energije uređaja s kombinacijom plina i električne energije koji proizvode toplu vodu i električnu energiju (EN 13203-4:2022)  
Gas-fired domestic appliances producing hot water – Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity (EN 13203-4:2022)

• **treba biti**  
HRN EN 13203-4:2022  
Plinski uređaji za pripremu potrošne tople vode za kućanstva – 4. dio: Procjena potrošnje energije uređaja s kombinacijom plina i električne energije koji proizvode toplu vodu i električnu energiju (EN 13203-4:2022)  
Gas-fired domestic appliances producing hot water – Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity (EN 13203-4:2022)

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

• **umjesto**  
HRN EN ISO 52120-1:2022  
Energetska svojstva zgrada – Doprinos automatizacije, nadzora i upravljanja u zgradama – 1. dio: Opći okvir i postupci (ISO 52120-1:2021; EN ISO 52120-1:2022)  
Energy performance of buildings – Contribution of building automation, controls and building management – Part 1: General framework and procedures (ISO 52120-1:2021; EN ISO 52120-1:2022)

• **treba biti**  
HRN EN ISO 52120-1:2022  
Energetska svojstva zgrada – Doprinos automatizacije, nadzora i upravljanja u zgradama – 1. dio: Opći okvir i postupci (ISO 52120-1:2021, ispravljena verzija 2022-09; EN ISO 52120-1:2022)  
Energy performance of buildings – Contribution of building automation, controls and building management – Part 1: General framework and procedures (ISO 52120-1:2021, Corrected version 2022-09; EN ISO 52120-1:2022)

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

• **umjesto**  
HRN EN 61000-3-3:2013  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013; EN 61000-3-3:2013)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013; EN 61000-3-3:2013)

• **treba biti**  
HRN EN 61000-3-3:2013  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u javnim niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013; EN 61000-3-3:2013)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013; EN 61000-3-3:2013)

• **umjesto**  
HRN EN 61000-3-3:2013/A1:2019  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u javnim niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am1:2017; EN 61000-3-3:2013/A1:2019)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am1:2017; EN 61000-3-3:2013/A1:2019)

• **treba biti**  
HRN EN 61000-3-3:2013/A1:2019  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u javnim niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am1:2017; EN 61000-3-3:2013/A1:2019)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am1:2017; EN 61000-3-3:2013/A1:2019)

• **umjesto**  
HRN EN 61000-3-3:2013/A2:2021  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am2:2021; EN 61000-3-3:2013/A2:2021)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am2:2021; EN 61000-3-3:2013/A2:2021)

• **treba biti**  
HRN EN 61000-3-3:2013/A2:2021  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u javnim niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am2:2021; EN 61000-3-3:2013/A2:2021)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am2:2021; EN 61000-3-3:2013/A2:2021)

- **umjesto**

HRN EN 61000-3-3:2013/A2:2021/Ispr.1:2022  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am2:2021/Corr.1:2022; EN 61000-3-3:2013/A2:2021/AC:2022)  
Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am2:2021/Corr.1:2022; EN 61000-3-3:2013/A2:2021/AC:2022)

- **treba biti**

HRN EN 61000-3-3:2013/A2:2021/Ispr.1:2022  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje promjena napona, kolebanja napona i treperenja u javnim niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A po fazi i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013/am2:2021/Corr.1:2022; EN 61000-3-3:2013/A2:2021/AC:2022)  
Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2013/am2:2021/Corr.1:2022; EN 61000-3-3:2013/A2:2021/AC:2022)

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

- **umjesto**

HRN EN ISO 16474-2:2014  
Boje i lakovi – Metode izlaganja izvorima svjetla u laboratoriju – 2. dio: Lučna svjetiljka sa ksenonom (ISO 16474-2:2013; EN ISO 16474-2:2013)  
Paints and varnishes – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps (ISO 16474-2:2013; EN ISO 16474-2:2013)

- **treba biti**

HRN EN ISO 16474-2:2014  
Boje i lakovi – Metode izlaganja izvorima svjetla u laboratoriju – 2. dio: Lučne svjetiljke sa ksenonom (ISO 16474-2:2013; EN ISO 16474-2:2013)  
Paints and varnishes – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps (ISO 16474-2:2013; EN ISO 16474-2:2013)

## **1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku**

Te su hrvatske norme ranije objavljene samo s naslovima na engleskome jeziku pa se sada objavljuju njihovi naslovi na hrvatskome jeziku.

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

HRN HD 123.3 S1:2008 en pr  
Šuplji metalni valovodi – 3. dio: Posebne specifikacije za plosnate pravokutne valovode (IEC 60153-3:1964; HD 123.3 S1:1977)  
Hollow metallic waveguides – Part 3: Relevant specifications for flat rectangular waveguides (IEC 60153-3:1964; HD 123.3 S1:1977)

HRN HD 123.6 S2:2008 en pr  
Šuplji metalni valovodi – 6. dio: Posebne specifikacije za srednje plosnate pravokutne valovode (IEC 60153-6:1967+am1:1977; HD 123.6 S2:1980)  
Hollow metallic waveguides – Part 6: Relevant specifications for medium flat rectangular waveguides (IEC 60153-6:1967+am1:1977; HD 123.6 S2:1980)

HRN HD 123.7 S1:2008 en pr  
Šuplji metalni valovodi – 7. dio: Posebne specifikacije za kvadratne valovode (IEC 60153-7:1972; HD 123.7 S1:1977)  
Hollow metallic waveguides – Part 7: Relevant specifications for square waveguides (IEC 60153-7:1972; HD 123.7 S1:1977)

HRN HD 129.3 S2:2008 en pr  
Prirubnice valovoda – 3. dio: Posebne specifikacije prirubnica za plosnate pravokutne valovode (IEC 60154-3:1982; HD 129.3 S2:1983)  
Flanges for waveguides – Part 3: Relevant specifications for flanges for flat rectangular waveguides (IEC 60154-3:1982; HD 129.3 S2:1983)

HRN HD 129.6 S1:2008 en pr  
Prirubnice valovoda – 6. dio: Posebne specifikacije prirubnica za srednje plosnate pravokutne valovode (IEC 60154-6:1983; HD 129.6 S1:1984)  
Flanges for waveguides – Part 6: Relevant specifications for flanges for medium flat rectangular waveguides (IEC 60154-6:1983; HD 129.6 S1:1984)

HRN HD 129.7 S1:2008 en pr  
Prirubnice valovoda – 7. dio: Posebne specifikacije prirubnica za kvadratne valovode (IEC 60154-7:1974; HD 129.7 S1:1977)  
Flanges for waveguides – Part 7: Relevant specifications for flanges for square waveguides (IEC 60154-7:1974; HD 129.7 S1:1977)

HRN HD 483.1 S2:2008 en pr  
Oprema audiosustava – 1. dio: Općenito (IEC 60268-1:1985+am1:1988; HD 483.1 S2:1989)  
Sound system equipment – Part 1: General (IEC 60268-1:1985+am1:1988; HD 483.1 S2:1989)

HRN EN 50289-1-10:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 1-10: Metode električnih ispitivanja – Smetnje (EN 50289-1-10:2001)  
Communication cables – Specifications for test methods – Part 1-10: Electrical test methods – Crosstalk (EN 50289-1-10:2001)

HRN EN 50289-1-11:2017 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 1-11: Metode električnih ispitivanja – Karakteristična impedancija, ulazna impedancija, gubitak povrata (EN 50289-1-11:2016)  
Communication cables – Specifications for test methods – Part 1-11: Electrical test methods – Characteristic impedance, input impedance, return loss (EN 50289-1-11:2016)

HRN EN 50289-1-1:2017 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 1-1: Metode električnih ispitivanja – Opći zahtjevi (EN 50289-1-1:2017)  
Communication cables – Specifications for test methods – Part 1-1: Electrical test methods – General requirements (EN 50289-1-1:2017)

- HRN EN 50289-1-12:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-12: Metode električnih ispitivanja – Induktivnost  
(EN 50289-1-12:2005)  
Communication cables – Specifications for test methods  
– Part 1-12: Electrical test methods – Inductance  
(EN 50289-1-12:2005)
- HRN EN 50289-1-17:2015 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-17: Metode električnih ispitivanja – Vanjske smetnje  
ExNEXT i ExFEXT (EN 50289-1-17:2015)  
Communication cables – Specifications for test methods  
– Part 1-17: Electrical test methods – Exogenous Crosstalk  
ExNEXT and ExFEXT (EN 50289-1-17:2015)
- HRN EN 50289-1-5:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-5: Metode električnih ispitivanja – Kapacitivnost  
(EN 50289-1-5:2001)  
Communication cables – Specifications for test methods  
– Part 1-5: Electrical test methods – Capacitance  
(EN 50289-1-5:2001)
- HRN EN 50289-1-6:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-6: Metode električnih ispitivanja – Elektromagnetske  
performanse (EN 50289-1-6:2002)  
Communication cables – Specifications for test methods  
– Part 1-6: Electrical test methods – Electromagnetic  
performance (EN 50289-1-6:2002)
- HRN EN 50289-1-7:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-7: Metode električnih ispitivanja – Brzina širenja  
(EN 50289-1-7:2001)  
Communication cables – Specifications for test methods  
– Part 1-7: Electrical test methods – Velocity of propagation  
(EN 50289-1-7:2001)
- HRN EN 50289-1-8:2017 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-8: Metode električnih ispitivanja – Prigušenje  
(EN 50289-1-8:2017)  
Communication cables – Specifications for test methods  
– Part 1-8: Electrical test methods – Attenuation  
(EN 50289-1-8:2017)
- HRN EN 50289-1-9:2017 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 1-9: Metode električnih ispitivanja – Gubitak  
neuravnoteženosti (poprečni gubitak pretvorbe TCL i  
poprečni gubitak pretvorbe TCTL) (EN 50289-1-9:2017)  
Communication cables – Specifications for test methods  
– Part 1-9: Electrical test methods – Unbalance attenuation  
(transverse conversion loss TCL transverse conversion  
transfer loss TCTL) (EN 50289-1-9:2017)
- HRN EN 50289-3-10:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-10: Metode mehaničkih ispitivanja – Torzija i uvijanje  
(EN 50289-3-10:2004)  
Communication cables – Specifications for test methods  
– Part 3-10: Mechanical test methods – Torsion and twisting  
(EN 50289-3-10:2004)
- HRN EN 50289-3-11:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-11: Metode mehaničkih ispitivanja – Otpornost kabela  
na rezanje (EN 50289-3-11:2001)  
Communication cables – Specifications for test methods  
– Part 3-11: Mechanical test methods – Cable cut-through  
resistance (EN 50289-3-11:2001)
- HRN EN 50289-3-1:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-1: Metode mehaničkih ispitivanja – Opći zahtjevi  
(EN 50289-3-1:2001)  
Communication cables – Specifications for test methods  
– Part 3-1: Mechanical test methods – General requirements  
(EN 50289-3-1:2001)
- HRN EN 50289-3-12:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-12: Metode mehaničkih ispitivanja – Oštećenje od  
vatrenog oružja (EN 50289-3-12:2001)  
Communication cables – Specifications for test methods  
– Part 3-12: Mechanical test methods – Shot gun damage  
(EN 50289-3-12:2001)
- HRN EN 50289-3-13:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-13: Metode mehaničkih ispitivanja – Eolske vibracije  
(EN 50289-3-13:2003)  
Communication cables – Specifications for test methods  
– Part 3-13: Mechanical test methods – Aeolian vibration  
(EN 50289-3-13:2003)
- HRN EN 50289-3-15:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-15: Metode mehaničkih ispitivanja – Otpornost  
podvodnog kabela na hidrostatski tlak (EN 50289-3-15:2003)  
Communication cables – Specifications for test methods  
– Part 3-15: Mechanical test methods – Underwater cable  
resistance to hydrostatic pressure (EN 50289-3-15:2003)
- HRN EN 50289-3-16:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-16: Metode mehaničkih ispitivanja – Vlačna svojstva  
kabela (EN 50289-3-16:2001)  
Communication cables – Specifications for test methods  
– Part 3-16: Mechanical test methods – Cable tensile  
performance (EN 50289-3-16:2001)
- HRN EN 50289-3-17:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-17: Metode mehaničkih ispitivanja – Prianjanje  
dielektrika i plašta (EN 50289-3-17:2002)  
Communication cables – Specifications for test methods  
– Part 3-17: Mechanical test methods – Adhesion of dielectric  
and sheath (EN 50289-3-17:2002)
- HRN EN 50289-3-2:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-2: Metode mehaničkih ispitivanja – Vlačna čvrstoća i  
istezanje vodiča (EN 50289-3-2:2001)  
Communication cables – Specifications for test methods  
– Part 3-2: Mechanical test methods – Tensile strength and  
elongation for conductor (EN 50289-3-2:2001)
- HRN EN 50289-3-4:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-4: Metode mehaničkih ispitivanja – Vlačna čvrstoća,  
istezanje i skupljanje izolacije i plašta (EN 50289-3-4:2001)  
Communication cables – Specifications for test methods  
– Part 3-4: Mechanical test methods – Tensile strength,  
elongation and shrinkage of insulation and sheath  
(EN 50289-3-4:2001)
- HRN EN 50289-3-5:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-5: Metode mehaničkih ispitivanja – Otpornost kabela  
na lomljenje (EN 50289-3-5:2001)  
Communication cables – Specifications for test methods  
– Part 3-5: Mechanical test methods – Crush resistance of  
the cable (EN 50289-3-5:2001)
- HRN EN 50289-3-6:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-6: Metode mehaničkih ispitivanja – Otpornost kabela  
na udarce (EN 50289-3-6:2001)  
Communication cables – Specifications for test methods  
– Part 3-6: Mechanical test methods – Impact resistance of  
the cable (EN 50289-3-6:2001)
- HRN EN 50289-3-7:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-7: Metode mehaničkih ispitivanja – Otpornost plašta  
kabela na abraziju (EN 50289-3-7:2001)  
Communication cables – Specifications for test methods  
– Part 3-7: Mechanical test methods – Abrasion resistance of  
the cable sheath (EN 50289-3-7:2001)
- HRN EN 50289-3-8:2015 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-8: Metode mehaničkih ispitivanja – Otpornost  
oznaka plašta kabela na abraziju (EN 50289-3-8:2013)  
Communication cables – Specifications for test methods  
– Part 3-8: Mechanical test methods – Abrasion resistance  
of cable sheath markings (EN 50289-3-8:2013)
- HRN EN 50289-3-9:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja  
– Dio 3-9: Metode mehaničkih ispitivanja – Ispitivanje  
savijanja (EN 50289-3-9:2001)  
Communication cables – Specifications for test methods  
– Part 3-9: Mechanical test methods – Bending tests  
(EN 50289-3-9:2001)



- HRN EN 50289-4-11:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-11: Metode ispitivanja utjecaja okoliša – Metoda integriranog horizontalnog ispitivanja požara (EN 50289-4-11:2002)  
Communication cables – Specifications for test methods – Part 4-11: Environmental test methods – A horizontal integrated fire test method (EN 50289-4-11:2002)
- HRN EN 50289-4-1:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-1: Metode ispitivanja utjecaja okoliša – Opći zahtjevi (EN 50289-4-1:2001)  
Communication cables – Specifications for test methods – Part 4-1: Environmental test methods – General requirements (EN 50289-4-1:2001)
- HRN EN 50289-4-12:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-12: Metode ispitivanja utjecaja okoliša – Ispitivanje vertikalnog širenja plamena na snopovima komunikacijskih kabela malih promjera (EN 50289-4-12:2004)  
Communication cables – Specifications for test methods – Part 4-12: Environmental test methods – Vertical flame spread test on bunched small communication cables (EN 50289-4-12:2004)
- HRN EN 50289-4-14:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-14: Metode ispitivanja utjecaja okoliša – Udar groma (EN 50289-4-14:2003)  
Communication cables – Specifications for test methods – Part 4-14: Environmental test methods – Lightning (EN 50289-4-14:2003)
- HRN EN 50289-4-16:2016 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-16: Metode ispitivanja utjecaja okoliša – Cjelovitost kruga u uvjetima požara (EN 50289-4-16:2016)  
Communication cables – Specifications for test methods – Part 4-16: Environmental test methods – Circuit integrity under fire conditions (EN 50289-4-16:2016)
- HRN EN 50289-4-2:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-2: Metode ispitivanja utjecaja okoliša – Prodiranje vode (EN 50289-4-2:2001)  
Communication cables – Specifications for test methods – Part 4-2: Environmental test methods – Water penetration (EN 50289-4-2:2001)
- HRN EN 50289-4-4:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-4: Metode ispitivanja utjecaja okoliša – Otpornost na otapala i kontaminirajuće tekućine (EN 50289-4-4:2008)  
Communication cables – Specifications for test methods – Part 4-4: Environmental test methods – Resistance to solvents and contaminating fluids (EN 50289-4-4:2008)
- HRN EN 50289-4-5:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-5: Metode ispitivanja utjecaja okoliša – Klimatske promjene (EN 50289-4-5:2008)  
Communication cables – Specifications for test methods – Part 4-5: Environmental test methods – Climatic sequence (EN 50289-4-5:2008)
- HRN EN 50289-4-6:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-6: Metode ispitivanja utjecaja okoliša – Izlaganje cikličkim promjenama temperature (EN 50289-4-6:2001)  
Communication cables – Specifications for test methods – Part 4-6: Environmental test methods – Temperature cycling (EN 50289-4-6:2001)
- HRN EN 50289-4-7:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-7: Metode ispitivanja utjecaja okoliša – Toplina s vlagom, stabilno stanje (EN 50289-4-7:2008)  
Communication cables – Specifications for test methods – Part 4-7: Environmental test methods – Damp heat, steady state (EN 50289-4-7:2008)
- HRN EN 50289-4-9:2008 en pr  
Komunikacijski kabeli – Specifikacije za metode ispitivanja – Dio 4-9: Metode ispitivanja utjecaja okoliša – Pneumatski otpor (EN 50289-4-9:2001)  
Communication cables – Specifications for test methods – Part 4-9: Environmental test methods – Pneumatic resistance (EN 50289-4-9:2001)
- HRN EN 50324-1:2008 en pr  
Piezoelektrična svojstva keramičkih materijala i komponenti – 1. dio: Nazivi i definicije (EN 50324-1:2002)  
Piezoelectric properties of ceramic materials and components – Part 1: Terms and definitions (EN 50324-1:2002)
- HRN EN 50324-2:2008 en pr  
Piezoelektrična svojstva keramičkih materijala i komponenti – 2. dio: Metode mjerenja – Mala snaga (EN 50324-2:2002)  
Piezoelectric properties of ceramic materials and components – Part 2: Methods of measurement – Low power (EN 50324-2:2002)
- HRN EN 50324-3:2008 en pr  
Piezoelektrična svojstva keramičkih materijala i komponenti – 3. dio: Metode mjerenja – Velika snaga (EN 50324-3:2002)  
Piezoelectric properties of ceramic materials and components – Part 3: Methods of measurement – High power (EN 50324-3:2002)
- HRN EN 50380:2017 en pr  
Zahtjevi za označivanje i dokumentaciju fotonaponskih modula (EN 50380:2017)  
Marking and documentation requirements for Photovoltaic Modules (EN 50380:2017)
- HRN EN 50583-1:2016 en pr  
Fotonaponski elementi u građevinarstvu – 1. dio: Fotonaponski moduli integrirani u zgrade (EN 50583-1:2016)  
Photovoltaics in buildings – Part 1: BIPV modules (EN 50583-1:2016)
- HRN EN 50583-2:2016 en pr  
Fotonaponski elementi u građevinarstvu – 2. dio: Fotonaponski sustavi integrirani u zgrade (EN 50583-2:2016)  
Photovoltaics in buildings – Part 2: BIPV systems (EN 50583-2:2016)
- HRN EN 50600-4-1:2017 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-1: Pregled i opći zahtjevi za ključne pokazatelje performansi (EN 50600-4-1:2016)  
Information technology – Data centre facilities and infrastructures – Part 4-1: Overview of and general requirements for key performance indicators (EN 50600-4-1:2016)
- HRN EN 50600-4-2:2017 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-2: Učinkovitost korištenja energije (EN 50600-4-2:2016)  
Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness (EN 50600-4-2:2016)
- HRN EN 50600-4-2:2017/Ispr.1:2017 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-2: Učinkovitost korištenja energije (EN 50600-4-2:2016/AC:2017)  
Information technology – Data centre facilities and infrastructures – Part 4-2: Power Usage Effectiveness (EN 50600-4-2:2016/AC:2017)
- HRN EN 50600-4-3:2017 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 4-3: Udio obnovljive energije (EN 50600-4-3:2016)  
Information technology – Data centre facilities and infrastructures – Part 4-3: Renewable Energy Factor (EN 50600-4-3:2016)
- HRN EN 50667:2017 en pr  
Informacijska tehnologija – Sustavi za automatizirano upravljanje infrastrukturom (AIM) – Zahtjevi, razmjena podataka i primjene (EN 50667:2016)  
Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications (EN 50667:2016)
- HRN EN 50697:2019 en pr  
Informacijska tehnologija – Mjerenje veze s kraja na kraj (E2E) (EN 50697:2019)  
Information technology – Measurement of end-to-end (E2E) links (EN 50697:2019)
- HRN EN 60062:2016 en pr  
Označivanje otpornika i kapaciteta (IEC 60062:2016; EN 60062:2016)  
Marking codes for resistors and capacitors (IEC 60062:2016; EN 60062:2016)

- HRN EN 60062:2016/Ispr.1:2017 en pr  
Označivanje otpornika i kapaciteta (IEC 60062:2016/Corr.1:2016; EN 60062:2016/AC:2016)  
Marking codes for resistors and capacitors (IEC 60062:2016/Corr.1:2016; EN 60062:2016/AC:2016)
- HRN EN 60063:2015 en pr  
Niz preporučenih vrijednosti za otpornike i kondenzatore (IEC 60063:2015; EN 60063:2015)  
Preferred number series for resistors and capacitors (IEC 60063:2015; EN 60063:2015)
- HRN EN 60068-2-20:2008 en pr  
Ispitivanje utjecaja okoliša – Dio 2-20: Ispitivanja – T ispitivanje: Metode ispitivanja lemljivosti i otpornosti uređaja s vodovima na toplinu lemljenja (IEC 60068-2-20:2008; EN 60068-2-20:2008)  
Environmental testing – Part 2-20: Tests – Test T: Test methods for solderability and resistance to soldering heat of devices with leads (IEC 60068-2-20:2008; EN 60068-2-20:2008)
- HRN EN 60068-2-21:2009 en pr  
Ispitivanje utjecaja okoliša – Dio 2-21: Ispitivanja – U ispitivanje: Mehanička izdržljivost priključaka i sastavnih uređaja za ugradnju (IEC 60068-2-21:2006; EN 60068-2-21:2006)  
Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices (IEC 60068-2-21:2006; EN 60068-2-21:2006)
- HRN EN 60068-2-43:2008 en pr  
Ispitivanje utjecaja okoliša – Dio 2-43: Ispitivanja – Kd ispitivanje: Ispitivanje kontakata i spojeva sumporovodikom (IEC 60068-2-43:2003; EN 60068-2-43:2003)  
Environmental testing – Part 2-43: Tests – Test Kd: Hydrogen sulphide test for contacts and connections (IEC 60068-2-43:2003; EN 60068-2-43:2003)
- HRN EN 60068-2-58:2015 en pr  
Ispitivanje utjecaja okoliša – Dio 2-58: Ispitivanja – Td ispitivanje: Metode ispitivanja lemljivosti, otpornosti metalizacije na otapanje i otpornosti na toplinu lemljenja komponenti za površinsku ugradnju (IEC 60068-2-58:2015; EN 60068-2-58:2015)  
Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD) (IEC 60068-2-58:2015; EN 60068-2-58:2015)
- HRN EN 60068-2-58:2015/A1:2018 en pr  
Ispitivanje utjecaja okoliša – Dio 2-58: Ispitivanja – Td ispitivanje: Metode ispitivanja lemljivosti, otpornosti metalizacije na otapanje i otpornosti na toplinu lemljenja komponenti za površinsku ugradnju (IEC 60068-2-58:2015/am1:2017; EN 60068-2-58:2015/A1:2018)  
Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD) (IEC 60068-2-58:2015/am1:2017; EN 60068-2-58:2015/A1:2018)
- HRN EN 60068-2-69:2017 en pr  
Ispitivanje utjecaja okoliša – Dio 2-69: Ispitivanja – Te/Tc ispitivanje: Ispitivanje lemljivosti elektroničkih komponenti i tiskanih pločica pomoću metode uravnoteženog vlaženja (mjerjenje sile) (IEC 60068-2-69:2017; EN 60068-2-69:2017)  
Environmental testing – Part 2-69: Tests – Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method (IEC 60068-2-69:2017; EN 60068-2-69:2017)
- HRN EN 60068-2-69:2017/Ispr.1:2018 en pr  
Ispitivanje utjecaja okoliša – Dio 2-69: Ispitivanja – Te/Tc ispitivanje: Ispitivanje lemljivosti elektroničkih komponenti i tiskanih pločica pomoću metode uravnoteženog vlaženja (mjerjenje sile) (IEC 60068-2-69:2017/Corr.1:2018; EN 60068-2-69:2017/AC:2018)  
Environmental testing – Part 2-69: Tests – Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method (IEC 60068-2-69:2017/Corr.1:2018; EN 60068-2-69:2017/AC:2018)
- HRN EN 60068-2-77:2008 en pr  
Ispitivanje utjecaja okoliša – Dio 2-77: Ispitivanja – 77. ispitivanje: Čvrstoća tijela i otpornost na udarce (IEC 60068-2-77:1999; EN 60068-2-77:1999)  
Environmental testing – Part 2-77: Tests – Test 77: Body strength and impact shock (IEC 60068-2-77:1999; EN 60068-2-77:1999)
- HRN EN 60068-2-83:2012 en pr  
Ispitivanje utjecaja okoliša – Dio 2-83: Ispitivanja – Tf ispitivanje: Ispitivanje lemljivosti elektroničkih komponenti za površinsku ugradnju (SMD) pomoću metode uravnoteženog vlaženja pastom za lemljenje (IEC 60068-2-83:2011; EN 60068-2-83:2011)  
Environmental testing – Part 2-83: Tests – Test Tf: Solderability testing of electronic components for surface mounting devices (SMD) by the wetting balance method using solder paste (IEC 60068-2-83:2011; EN 60068-2-83:2011)
- HRN EN 60068-3-13:2016 en pr  
Ispitivanje utjecaja okoliša – Dio 3-13: Popratna dokumentacija i upute za ispitivanje T: Lemljenje (IEC 60068-3-13:2016; EN 60068-3-13:2016)  
Environmental testing – Part 3-13: Supporting documentation and guidance on test T: Soldering (IEC 60068-3-13:2016; EN 60068-3-13:2016)
- HRN EN 60115-1:2012 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – 1. dio: Opća specifikacija (IEC 60115-1:2008, MOD; EN 60115-1:2011)  
Fixed resistors for use in electronic equipment – Part 1: Generic specification (IEC 60115-1:2008, MOD; EN 60115-1:2011)
- HRN EN 60115-1:2012/A11:2015 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – 1. dio: Opća specifikacija (EN 60115-1:2011/A11:2015)  
Fixed resistors for use in electronic equipment – Part 1: Generic specification (EN 60115-1:2011/A11:2015)
- HRN EN 60115-2:2015 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – 2. dio: Sekcijska specifikacija: Fiksni tankoslojni otpornici male snage s izvodima (IEC 60115-2:2014; EN 60115-2:2015)  
Fixed resistors for use in electronic equipment – Part 2: Sectional specification: Leaded fixed low power film resistors (IEC 60115-2:2014; EN 60115-2:2015)
- HRN EN 60115-8:2014 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – 8. dio: Sekcijska specifikacija: Fiksni otpornici za površinsku ugradnju (IEC 60115-8:2009, MOD; EN 60115-8:2012)  
Fixed resistors for use in electronic equipment – Part 8: Sectional specification – Fixed surface mount resistors (IEC 60115-8:2009, MOD; EN 60115-8:2012)
- HRN EN 60115-8-1:2015 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – Dio 8-1: Predložak za detaljnu specifikaciju: Fiksni tankoslojni otpornici male snage za površinsku ugradnju (SMD) za elektroničku opremu opće namjene, razina kvalifikacije G (IEC 60115-8-1:2014; EN 60115-8-1:2015)  
Fixed resistors for use in electronic equipment – Part 8-1: Blank detail specification: Fixed surface mount (SMD) low power film resistors for general electronic equipment, classification level G (IEC 60115-8-1:2014; EN 60115-8-1:2015)
- HRN EN 60115-9:2008 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – 9. dio: Sekcijska specifikacija: Mreža fiksnih otpornika za površinsku ugradnju s pojedinačno mjerljivim otpornicima (IEC 60115-9:2003; EN 60115-9:2004)  
Fixed resistors for use in electronic equipment – Part 9: Sectional specification – Fixed surface mount resistor networks with individually measurable resistors (IEC 60115-9:2003; EN 60115-9:2004)
- HRN EN 60115-9-1:2008 en pr  
Fiksni otpornici za uporabu u elektroničkoj opremi – Dio 9-1: Predložak za detaljnu specifikaciju: Mreže fiksnih otpornika za površinsku ugradnju s pojedinačno mjerljivim otpornicima – Razina ocjenjivanja EZ (IEC 60115-9-1:2003; EN 60115-9-1:2004)  
Fixed resistors for use in electronic equipment – Part 9-1: Blank detail specification – Fixed surface mount resistor networks with individually measurable resistors – Assessment level EZ (IEC 60115-9-1:2003; EN 60115-9-1:2004)
- HRN EN 60122-1:2008 en pr  
Kvarcne kristalne jedinice utvrđene kvalitete – 1. dio: Opća specifikacija (IEC 60122-1:2002; EN 60122-1:2002)  
Quartz crystal units of assessed quality – Part 1: Generic specification (IEC 60122-1:2002; EN 60122-1:2002)
- HRN EN 60122-1:2008/A1:2018 en pr  
Kvarcne kristalne jedinice utvrđene kvalitete – 1. dio: Opća specifikacija (IEC 60122-1:2002/am1:2017; EN 60122-1:2002/A1:2018)  
Quartz crystal units of assessed quality – Part 1: Generic specification (IEC 60122-1:2002/am1:2017; EN 60122-1:2002/A1:2018)

- HRN EN 60122-3:2011 en pr  
Kvarcne kristalne jedinice utvrđene kvalitete – 3. dio: Standardne dimenzije i spojevi vodova (IEC 60122-3:2010; EN 60122-3:2010)  
Quartz crystal units of assessed quality – Part 3: Standard outlines and lead connections (IEC 60122-3:2010; EN 60122-3:2010)
- HRN EN 60153-1:2016 en pr  
Šuplji metalni valovodi – 1. dio: Opći zahtjevi i metode mjerenja (IEC 60153-1:2016; EN 60153-1:2016)  
Hollow metallic waveguides – Part 1: General requirements and measuring method (IEC 60153-1:2016; EN 60153-1:2016)
- HRN EN 60153-1:2016/Ispr.1:2017 en pr  
Šuplji metalni valovodi – 1. dio: Opći zahtjevi i metode mjerenja (EN 60153-1:2016/AC:2017)  
Hollow metallic waveguides – Part 1: General requirements and measuring methods (EN 60153-1:2016/AC:2017)
- HRN EN 60153-2:2016 en pr  
Šuplji metalni valovodi – 2. dio: Posebne specifikacije za obične pravokutne valovode (IEC 60153-2:2016; EN 60153-2:2016)  
Hollow metallic waveguides – Part 2: Relevant specifications for ordinary rectangular waveguides (IEC 60153-2:2016; EN 60153-2:2016)
- HRN EN 60153-2:2016/Ispr.1:2017 en pr  
Šuplji metalni valovodi – 2. dio: Posebne specifikacije za obične pravokutne valovode (EN 60153-2:2016/AC:2017)  
Hollow metallic waveguides – Part 2: Relevant specifications for ordinary rectangular waveguides (EN 60153-2:2016/AC:2017)
- HRN EN 60153-4:2018 en pr  
Šuplji metalni valovodi – 4. dio: Posebne specifikacije za kružne valovode (IEC 60153-4:2017; EN 60153-4:2017)  
Hollow metallic waveguides – Part 4: Relevant specifications for circular waveguides (IEC 60153-4:2017; EN 60153-4:2017)
- HRN EN 60679-3:2014 en pr  
Oscilatori utvrđene kvalitete kontrolirani kvarcnim kristalima – 3. dio: Standardne dimenzije i spojevi vodova (IEC 60679-3:2012; EN 60679-3:2013)  
Quartz crystal controlled oscillators of assessed quality – Part 3: Standard outlines and lead connections (IEC 60679-3:2012; EN 60679-3:2013)
- HRN EN 60679-4:2008 en pr  
Oscilatori utvrđene kvalitete kontrolirani kvarcnim kristalima – 4. dio: Sekcijska specifikacija – Odobrenje sposobnosti (IEC 60679-4:1997; EN 60679-4:1998)  
Quartz crystal controlled oscillators of assessed quality – Part 4: Sectional specification – Capability approval (IEC 60679-4:1997; EN 60679-4:1998)
- HRN EN 60679-4-1:2008 en pr  
Oscilatori utvrđene kvalitete kontrolirani kvarcnim kristalima – Dio 4-1: Predložak za detaljnu specifikaciju – Odobrenje sposobnosti (IEC 60679-4-1:1998; EN 60679-4-1:1998)  
Quartz crystal controlled oscillators of assessed quality – Part 4-1: Blank detail specification – Capability approval (IEC 60679-4-1:1998; EN 60679-4-1:1998)
- HRN EN 60679-5:2008 en pr  
Oscilatori utvrđene kvalitete kontrolirani kvarcnim kristalima – 5. dio: Sekcijska specifikacija – Odobrenje kvalifikacije (IEC 60679-5:1998; EN 60679-5:1998)  
Quartz crystal controlled oscillators of assessed quality – Part 5: Sectional specification – Qualification approval (IEC 60679-5:1998; EN 60679-5:1998)
- HRN EN 60679-5-1:2008 en pr  
Oscilatori utvrđene kvalitete kontrolirani kvarcnim kristalima – Dio 5-1: Predložak za detaljnu specifikaciju – Odobrenje kvalifikacije (IEC 60679-5-1:1998; EN 60679-5-1:1998)  
Quartz crystal controlled oscillators of assessed quality – Part 5-1: Blank detail specification – Qualification approval (IEC 60679-5-1:1998; EN 60679-5-1:1998)
- HRN EN IEC 61131-10:2019 en pr  
Programirljivi regulatori – 10. dio: PLC otvoreni XML format razmjene (IEC 61131-10:2019; EN IEC 61131-10:2019)  
Programmable controllers – Part 10: PLC open XML exchange format (IEC 61131-10:2019; EN IEC 61131-10:2019)
- HRN EN 61580-1:2008 en pr  
Metode mjerenja valovoda – 1. dio: Razdvajanje i rotacija ravnine polarizacije (IEC 61580-1:1996; EN 61580-1:1996)  
Methods of measurement for waveguides – Part 1: Decoupling and rotation of the plane of polarization (IEC 61580-1:1996; EN 61580-1:1996)
- HRN EN 62509:2012 en pr  
Regulatori punjenja baterija za fotonaponske sustave – Izvedba i funkcioniranje (IEC 62509:2010; EN 62509:2011)  
Battery charge controllers for photovoltaic systems – Performance and functioning (IEC 62509:2010; EN 62509:2011)
- HRN EN IEC 62541-12:2020 en pr  
OPC objedinjena arhitektura – 12. dio: Otkrivanje i globalne usluge (IEC 62541-12:2020; EN IEC 62541-12:2020)  
OPC unified architecture – Part 12: Discovery and global services (IEC 62541-12:2020; EN IEC 62541-12:2020)
- HRN EN IEC 62667:2018 en pr  
Medicinska električna oprema – Medicinska oprema za zračenje svjetlosnim ionima – Izvedbene značajke (IEC 62667:2017; EN IEC 62667:2018)  
Medical electrical equipment – Medical light ion beam equipment – Performance characteristics (IEC 62667:2017; EN IEC 62667:2018)
- HRN EN IEC 63041-1:2018 en pr  
Piezoelektrični senzori – 1. dio: Opća specifikacija (IEC 63041-1:2017; EN IEC 63041-1:2018)  
Piezoelectric Sensors – Part 1: Generic Specifications (IEC 63041-1:2017; EN IEC 63041-1:2018)
- HRN EN IEC 63041-2:2018 en pr  
Piezoelektrični senzori – 2. dio: Kemijski i biokemijski senzori (IEC 63041-2:2017; EN IEC 63041-2:2018)  
Piezoelectric Sensors – Part 2: Chemical and Biochemical Sensors (IEC 63041-2:2017; EN IEC 63041-2:2018)
- HRN EN IEC 63093-2:2020 en pr  
Feritne jezgre – Smjernice za dimenzije i granice površinskih nepravilnosti – 2. dio: Jezgre u obliku posude za uporabu u telekomunikacijama, opskrbi električnom energijom i primjenama filtera (IEC 63093-2:2020; EN IEC 63093-2:2020)  
Ferrite cores – Guidelines on dimensions and the limits of surface irregularities – Part 2: Pot-cores for use in telecommunications, power supply, and filter applications (IEC 63093-2:2020; EN IEC 63093-2:2020)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

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

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

HRN EN 1846-3:2013 hr-en pr-pp  
Vozila za gašenje požara i spašavanje – 3. dio: Trajno ugrađena oprema – Sigurnost i svojstva (EN 1846-3:2013)  
Firefighting and rescue service vehicles – Part 3: Permanently installed equipment – Safety and performance (EN 1846-3:2013)

HRN EN 16327:2014 hr-en pr-pp  
Vatrogastvo – Nadtlačni sustavi pjenila (PPPS) i sustavi komprimirane zračne pjene (CAFS) (EN 16327:2014)  
Fire-fighting – Positive-pressure proportioning systems (PPPS) and compressed-air foam systems (CAFS) (EN 16327:2014)

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

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN 520:2010 hr-en pr-pp  
Gipsane ploče – Definicije, zahtjevi i metode ispitivanja (EN 520:2004+A1:2009)  
Gypsum plasterboards – Definitions, requirements and test methods (EN 520:2004+A1:2009)

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

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

HRN EN 50238-1:2007 hr-en pr-pp  
Željeznički sustav – Kompatibilnost između željezničkih vozila i sustava detekcije vlaka – 1. dio: Općenito (EN 50238-1:2003)  
Railway applications – Compatibility between rolling stock and train detection systems – Part 1: General (EN 50238-1:2003)

HRN EN 50238-1:2007/Ispr.1:2016 hr-en pr-pp  
Željeznički sustav – Kompatibilnost između željezničkih vozila i sustava detekcije vlaka – 1. dio: Općenito (EN 50238-1:2003/AC:2014)  
Railway applications – Compatibility between rolling stock and train detection systems – Part 1: General (EN 50238-1:2003/AC:2014)

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

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN 61557-15:2014 hr-en pr-pp  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjernje struje – Oprema za ispitivanje, mjerenje ili nadzor zaštitnih mjera – 15. dio: Zahtjevi funkcionalne sigurnosti uređaja za nadzor izolacije i opreme za određivanje mjesta loše izolacije u IT sustavima (IEC 61557-15:2014; EN 61557-15:2014)  
Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing; measuring or monitoring of protective measures – Part 15: Functional safety requirements for insulation monitoring devices in IT systems and equipment for insulation fault location in IT systems (IEC 61557-15:2014; EN 61557-15:2014)

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

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN 301 549 V2.1.2:2018 hr-en pr-pp  
Zahtjevi za osiguravanje pristupačnosti proizvoda i usluga u području IKT (EN 301 549 V2.1.2:2018)  
Accessibility requirements for ICT products and services (EN 301 549 V2.1.2:2018)

## 2 Rezultati međunarodne i europske normizacije

### Europska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 1186-3	Materials and articles in contact with foodstuffs – Plastics – Part 3: Test methods for overall migration in evaporable simulants	67.250	2022-08
EN 1515-4/AC	Flanges and their joints – Bolting – Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 2014/68/EU	21.060.10; 21.060.20; 23.040.60	2022-08
EN 10357	Austenitic, austenitic-ferritic and ferritic longitudinally welded stainless steel tubes for the food and chemical industry	23.040.10	2022-08
EN 12916+A1	Petroleum products – Determination of aromatic hydrocarbon types in middle distillates – High performance liquid chromatography method with refractive index detection	75.080	2022-08
EN 13045	Packaging – Flexible cylindrical plastic tubes – Dimensions and tolerances	55.120	2022-08
EN 13203-2	Gas-fired domestic appliances producing hot water – Part 2: Assessment of energy consumption	91.140.65	2022-08
EN 13203-3	Gas-fired domestic appliances producing hot water – Part 3: Assessment of energy consumption of solar supported gas-fired appliances	91.140.65	2022-08
EN 13203-4	Gas-fired domestic appliances producing hot water – Part 4: Assessment of energy consumption of gas combined heat and power appliances (mCHP) producing hot water and electricity	91.140.65	2022-08
EN 13203-5	Gas-fired domestic appliances producing hot water – Part 5: Assessment of energy consumption of gas-fired appliances combined with electrical heat pump	91.140.65	2022-08
EN 13203-6	Gas-fired domestic appliances producing hot water – Part 6: Assessment of energy consumption of adsorption and absorption heat pumps	91.140.65	2022-08
EN 13203-7	Gas-fired domestic appliances producing hot water – Part 7: Assessment of energy consumption of combination boilers equipped with a passive flue heat recovery device	91.140.65	2022-08
EN 14363+A2	Railway applications – Testing and Simulation for the acceptance of running characteristics of railway vehicles – Running Behaviour and stationary tests	45.060.01	2022-08
EN 14420-2	Hose fittings with clamp units – Part 2: Hose side parts of hose tail	23.040.70	2022-08
EN 14420-4	Hose fittings with clamp units – Part 4: Flange connections	23.040.70	2022-08
EN 14420-7	Hose fittings with clamp units – Part 7: Cam locking couplings	23.040.70	2022-08
EN 15020	Railway applications – Rescue coupler – Performance requirements, specific interface geometry and test methods	45.060.01	2022-08
CEN/TR 15120	Tanks for transport of dangerous goods – Guidance and recommendations for loading, transport and unloading	13.300; 23.020.20	2022-08
EN 15531-1	Public transport – Service interface for real-time information relating to public transport operations – Part 1: Context and framework	35.240.60	2022-08
CEN/TS 15531-5	Public transport – Service interface for real-time information relating to public transport operations – Part 5: Functional service interfaces situation exchange: Situation exchange	35.240.60	2022-08
EN 15551	Railway applications – Railway rolling stock – Buffers	45.060.01	2022-08
EN 15566	Railway applications – Railway Rolling stock – Draw gear and screw coupling	45.060.01	2022-08
EN 15749	Fertilizers – Determination of sulfates content using three different methods	65.080	2022-08
CEN/TS 16157-6	Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 6: Parking publications	35.240.60	2022-08
EN 16247-1	Energy audits – Part 1: General requirements	03.120.10; 27.015	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
EN 16247-2	Energy audits – Part 2: Buildings	03.120.10; 27.015; 91.120.10	2022-08
EN 16247-3	Energy audits – Part 3: Processes	03.120.10; 27.015	2022-08
EN 16247-4	Energy audits – Part 4: Transport	03.120.10; 27.015; 55.020	2022-08
EN 16616	Chemical disinfectants and antiseptics – Chemical-thermal textile disinfection – Test method and requirements (phase 2, step 2)	11.080.20	2022-08
EN 16839	Railway applications – Rolling stock – Head stock layout	45.040	2022-08
CEN/TS 17249-5	Intelligent transport systems – eSafety – Part 5: eCall for UNECE category L1 and L3 powered two-wheeled vehicles	35.240.60	2022-08
EN 17495	Railway Applications – Acoustics – Determination of the dynamic stiffness of elastic track components related to noise and vibration: Rail pads and rail fastening assemblies	17.140.30; 93.100	2022-08
CEN/TR 17559	Algae and algae products – Food and feed applications: General overview of limits, procedures and analytical methods	13.020.55; 65.120; 67.040	2022-08
CEN/CLC/TR 17603-10-03	Space engineering – Testing guidelines	49.140	2022-08
EN 17610	Building hardware – Environmental product declarations – Product category rules complementary to EN 15804 for building hardware	91.190	2022-08
EN 17613	LPG equipment and accessories – Composite piping for use with LPG in liquid phase and vapour pressure phase – Design and manufacture	23.040.01	2022-08
EN 17645	Domestic swimming pools – Environmental performance efficiency – Performance evaluation, methodology, and classification of the use of outdoor pools and their equipment	97.220.10	2022-08
EN 17646	Secure storage units – Classification for high security locks according to their resistance to unauthorized opening – Distributed systems	13.310	2022-08
EN 17648	E-liquid ingredients	65.160	2022-08
EN 17649	Gas infrastructure – Safety Management System (SMS) and Pipeline Integrity Management System (PIMS) – Functional requirements	03.100.70; 23.040.01; 75.200	2022-08
EN 17650	A framework for digital preservation of cinematographic works – The Cinema Preservation Package	35.240.30; 37.060.99	2022-08
EN 17673	Protective clothing – Protection against heat and flame – Requirements and test methods for garments with integrated smart textiles and non textile elements	13.340.10; 59.080.80	2022-08
EN 17687	Public procurement – Integrity and accountability – Requirements and guidance	03.100.02; 03.100.10; 13.020.20; 91.010.20	2022-08
CEN/TR 17825	Chemical disinfectants and antiseptics – Interpretation of water controls in EN 16615:2015	11.080.20	2022-08
CEN/TS 17830	Paper and board – Guidance on the application of Term 2.2 "Prohibited materials" of EN 643:2014	85.060	2022-08
CEN/TR 17862	Guideline for the implementation of the Cinema Preservation Package (CPP) in EN 17650	35.240.30; 37.060.99	2022-08
CEN/TR 17868	Intelligent transport systems – EU-ICIP – ITS standards deliverables (2022)	35.240.60	2022-08
EN 50163/A3	Railway applications – Supply voltages of traction systems	29.280	2022-08
EN 50243	Outdoor bushings for 24 kV and 36 kV and for 5 kA and 8 kA, for liquid filled transformers	29.080.20; 29.180	2022-08
EN 50706	Household and similar electrical appliances – Particular requirements for electrically operated commercial rotary ironers	97.060	2022-08
EN IEC 60318-7	Electroacoustics – Simulators of human head and ear – Part 7: Head and torso simulator for the measurement of sound sources close to the ear (IEC 60318-7:2022)	11.180.15; 17.140.50	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
EN 60335-2-65/A2	Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances (IEC 60335-2-65:2002/A2:2015)	23.120; 91.140.30	2022-08
EN 60335-2-65/A12	Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances	23.120; 91.140.30	2022-08
EN IEC 60335-2-89	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 + COR1:2019 + COR2:2021)	97.040.30; 97.130.20	2022-08
EN IEC 60335-2-89/A11	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	97.040.30; 97.130.20	2022-08
EN IEC 60544-5	Electrical insulating materials – Determination of the effects of ionizing radiation – Part 5: Procedures for assessment of ageing in service (IEC 60544-5:2022)	17.240; 29.035.01	2022-08
EN IEC 60674-3-4	Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheets 4: Polyimide films used for electrical insulation (IEC 60674-3-4:2022)	29.035.20	2022-08
EN 60731/A1	Medical electrical equipment – Dosimeters with ionization chambers as used in radiotherapy (IEC 60731:2011/A1:2016)	11.040.50; 17.240	2022-08
EN IEC 60793-1-1	Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance (IEC 60793-1-1:2022)	33.180.10	2022-08
EN IEC 60966-2-8	Radio frequency and coaxial cable assemblies – Part 2-8: Detail specification for cable assemblies for radio and TV receivers – Frequency range up to 3000 MHz, Screening class A++, IEC 61169-47 connectors (IEC 60966-2-8:2022)	33.120.01; 33.120.10	2022-08
EN IEC 60966-4-2	Radio frequency and coaxial cable assemblies – Part 4-2: Detail specification for semi rigid cable assemblies (jumper) – Frequency range up to 6000 MHz, type 50-9 semi-rigid coaxial cable (IEC 60966-4-2:2022)	33.120.01; 33.120.10	2022-08
EN IEC 60966-4-3	Radio frequency and coaxial cable assemblies – Part 4-3: Detail specification for semi-rigid cable assemblies – Frequency range up to 6000 MHz, type 50-12 low loss semi-rigid coaxial cable (IEC 60966-4-3:2022)	33.120.01; 33.120.10	2022-08
EN IEC 61031	Nuclear facilities – Instrumentation and control systems – Design, location and application criteria for installed area gamma radiation dose rate monitoring equipment for use during normal operation and anticipated operational occurrences (IEC 61031:2020)	13.280; 17.240; 27.120.10	2022-08
EN 61340-2-1/A1	Electrostatics – Part 2-1: Measurement methods – Ability of materials and products to dissipate static electric charge (IEC 61340-2-1:2015/AMD1:2022)	17.220.20; 17.220.99; 29.020	2022-08
EN 61754-20/A1	Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 20: Type LC connector family (IEC 61754-20:2012/AMD1:2022)	33.180.20	2022-08
EN IEC 62055-31	Electricity metering – Payment systems – Part 31: Particular requirements – Static payment meters for active energy (classes 0,5, 1 and 2) (IEC 62055-31:2022)	91.140.50	2022-08
EN IEC 62271-202	High-voltage switchgear and controlgear – Part 202: AC prefabricated substations for rated voltages above 1 kV and up to and including 52 kV (IEC 62271-202:2022)	29.130.10	2022-08
EN IEC 62271-212	High-voltage switchgear and controlgear – Part 212: Compact Equipment Assembly for Distribution Substation (CEADS) for AC voltages up to 52 kV (IEC 62271-212:2022)	29.130.10	2022-08
EN 62493/A1	Assessment of lighting equipment related to human exposure to electromagnetic fields (IEC 62493:2015/AMD1:2022)	17.240; 29.020; 29.140.99; 91.160.01	2022-08
EN IEC 62722-1	Luminaire performance – Part 1: General requirements (IEC 62722-1:2022)	29.140.40	2022-08
EN IEC 62759-1	Photovoltaic (PV) modules – Transportation testing – Part 1: Transportation and shipping of module package units (IEC 62759-1:2022)	27.160	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 62988	Nuclear power plants – Instrumentation and control systems important to safety – Selection and use of wireless devices (IEC 62988:2018)	27.120.20	2022-08
EN ISO 11403-2	Plastics – Acquisition and presentation of comparable multipoint data – Part 2: Thermal and processing properties (ISO 11403-2:2022)	83.080.01	2022-08
EN ISO 12006-3	Building construction – Organization of information about construction works – Part 3: Framework for object-oriented information (ISO 12006-3:2022)	91.010.01	2022-08
EN ISO 15701	Leather – Tests for colour fastness – Colour fastness to migration into polymeric material (ISO 15701:2022)	59.140.30	2022-08
EN ISO 15750-3	Packaging – Steel drums – Part 3: Inserted flange-type closure systems (ISO 15750-3:2022)	55.140	2022-08
EN ISO 16638-2	Radiological protection – Monitoring and internal dosimetry for specific materials – Part 2: Ingestion of uranium compounds (ISO 16638-2:2019)	17.240	2022-08
EN ISO 16890-2	Air filters for general ventilation – Part 2: Measurement of fractional efficiency and air flow resistance (ISO 16890-2:2022)	91.140.30	2022-08
EN ISO 16890-4	Air filters for general ventilation – Part 4: Conditioning method to determine the minimum fractional test efficiency (ISO 16890-4:2022)	91.140.30	2022-08
EN ISO 17636-1	Non-destructive testing of welds – Radiographic testing – Part 1: X- and gamma-ray techniques with film (ISO 17636-1:2022)	25.160.40	2022-08
EN ISO 19443	Quality management systems – Specific requirements for the application of ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS) (ISO 19443:2018)	03.120.10; 27.120.01	2022-08
EN ISO 20031	Radiological protection – Monitoring and dosimetry for internal exposures due to wound contamination with radionuclides (ISO 20031:2020)	13.280	2022-08
EN ISO 20342-1	Assistive products for tissue integrity when lying down – Part 1: General requirements (ISO 20342-1:2022)	11.180.01	2022-08
EN ISO 20535	Footwear – Test method for insoles and insocks – Dimensional change after cycle of wetting and drying (ISO 20535:2019)	61.060	2022-08
EN ISO 21606	Dentistry – Elastomeric auxiliaries for use in orthodontics (ISO 21606:2022)	11.060.10	2022-08
EN ISO 23368	Anaesthetic and respiratory equipment – Low-flow nasal cannulae for oxygen therapy (ISO 23368:2022)	11.040.10	2022-08
EN ISO 23611-4	Soil quality – Sampling of soil invertebrates – Part 4: Sampling, extraction and identification of soil-inhabiting nematodes (ISO 23611-4:2022)	13.080.05; 13.080.30	2022-08
CEN ISO/TS 23625	Small craft – Lithium-ion batteries (ISO/TS 23625:2021)	47.080	2022-08
CEN ISO/TS 23818-2	Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines – Part 2: Resin-fibre composite (RFC) material (ISO/TS 23818-2:2021)	23.040.20	2022-08
CEN ISO/TS 23818-3	Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines – Part 3: Unplasticised poly(vinyl chloride) (PVC-U) material (ISO/TS 23818-3:2021)	23.040.20	2022-08
EN ISO 29462	Field testing of general ventilation filtration devices and systems for in situ removal efficiency by particle size and resistance to airflow (ISO 29462:2022)	91.140.30	2022-08
EN ISO 41018	Facility management – Development of a facility management policy (ISO 41018:2022)	03.080.10	2022-08
HD 60364-5-53/AC	Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear; Corrigendum	29.130.20	2022-08



## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 16247-1	Energy audits – Part 1: General requirements	03.120.10; 27.015	2022-08
EN 16247-2	Energy audits – Part 2: Buildings	03.120.10; 27.015; 91.120.10	2022-08
EN 16247-3	Energy audits – Part 3: Processes	03.120.10; 27.015	2022-08
EN 16247-4	Energy audits – Part 4: Transport	03.120.10; 27.015; 55.020	2022-08
CEN/CLC/TR 17603-10-03	Space engineering – Testing guidelines	49.140	2022-08
EN 50163/A3	Railway applications – Supply voltages of traction systems	29.280	2022-08
EN 50243	Outdoor bushings for 24 kV and 36 kV and for 5 kA and 8 kA, for liquid filled transformers	29.080.20; 29.180	2022-08
EN 50706	Household and similar electrical appliances – Particular requirements for electrically operated commercial rotary ironers	97.060	2022-08
EN IEC 60318-7	Electroacoustics – Simulators of human head and ear – Part 7: Head and torso simulator for the measurement of sound sources close to the ear (IEC 60318-7:2022)	11.180.15; 17.140.50	2022-08
EN 60335-2-65/A2	Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances (IEC 60335-2-65:2002/A2:2015)	23.120; 91.140.30	2022-08
EN 60335-2-65/A12	Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances	23.120; 91.140.30	2022-08
EN IEC 60335-2-89	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 + COR1:2019 + COR2:2021)	97.040.30; 97.130.20	2022-08
EN IEC 60335-2-89/A11	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	97.040.30; 97.130.20	2022-08
EN IEC 60544-5	Electrical insulating materials – Determination of the effects of ionizing radiation – Part 5: Procedures for assessment of ageing in service (IEC 60544-5:2022)	17.240; 29.035.01	2022-08
EN IEC 60674-3-4	Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheets 4: Polyimide films used for electrical insulation (IEC 60674-3-4:2022)	29.035.20	2022-08
EN 60731/A1	Medical electrical equipment – Dosimeters with ionization chambers as used in radiotherapy (IEC 60731:2011/A1:2016)	11.040.50; 17.240	2022-08
EN IEC 60793-1-1	Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance (IEC 60793-1-1:2022)	33.180.10	2022-08
EN IEC 60966-2-8	Radio frequency and coaxial cable assemblies – Part 2-8: Detail specification for cable assemblies for radio and TV receivers – Frequency range up to 3000 MHz, Screening class A++, IEC 61169-47 connectors (IEC 60966-2-8:2022)	33.120.01; 33.120.10	2022-08
EN IEC 60966-4-2	Radio frequency and coaxial cable assemblies – Part 4-2: Detail specification for semi rigid cable assemblies (jumper) – Frequency range up to 6000 MHz, type 50-9 semi-rigid coaxial cable (IEC 60966-4-2:2022)	33.120.01; 33.120.10	2022-08
EN IEC 60966-4-3	Radio frequency and coaxial cable assemblies – Part 4-3: Detail specification for semi-rigid cable assemblies – Frequency range up to 6000 MHz, type 50-12 low loss semi-rigid coaxial cable (IEC 60966-4-3:2022)	33.120.01; 33.120.10	2022-08
EN IEC 61031	Nuclear facilities – Instrumentation and control systems – Design, location and application criteria for installed area gamma radiation dose rate monitoring equipment for use during normal operation and anticipated operational occurrences (IEC 61031:2020)	13.280; 17.240; 27.120.10	2022-08
EN 61340-2-1/A1	Electrostatics – Part 2-1: Measurement methods – Ability of materials and products to dissipate static electric charge (IEC 61340-2-1:2015/AMD1:2022)	17.220.20; 17.220.99; 29.020	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
EN 61754-20/A1	Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 20: Type LC connector family (IEC 61754-20:2012/AMD1:2022)	33.180.20	2022-08
EN IEC 62055-31	Electricity metering – Payment systems – Part 31: Particular requirements – Static payment meters for active energy (classes 0,5, 1 and 2) (IEC 62055-31:2022)	91.140.50	2022-08
EN IEC 62271-202	High-voltage switchgear and controlgear – Part 202: AC prefabricated substations for rated voltages above 1 kV and up to and including 52 kV (IEC 62271-202:2022)	29.130.10	2022-08
EN IEC 62271-212	High-voltage switchgear and controlgear – Part 212: Compact Equipment Assembly for Distribution Substation (CEADS) for AC voltages up to 52 kV (IEC 62271-212:2022)	29.130.10	2022-08
EN 62493/A1	Assessment of lighting equipment related to human exposure to electromagnetic fields (IEC 62493:2015/AMD1:2022)	17.240; 29.020; 29.140.99; 91.160.01	2022-08
EN IEC 62722-1	Luminaire performance – Part 1: General requirements (IEC 62722-1:2022)	29.140.40	2022-08
EN IEC 62759-1	Photovoltaic (PV) modules – Transportation testing – Part 1: Transportation and shipping of module package units (IEC 62759-1:2022)	27.160	2022-08
EN IEC 62988	Nuclear power plants – Instrumentation and control systems important to safety – Selection and use of wireless devices (IEC 62988:2018)	27.120.20	2022-08
HD 60364-5-53/AC	Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear; Corrigendum	29.130.20	2022-08

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 102232-1 V 3.27.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery	33.040.35	2022-08
ETSI TS 102232-5 V 3.16.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 5: Service-specific details for IP Multimedia services	33.040.35	2022-08
ETSI TS 102232-7 V 3.12.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services	33.040.35	2022-08
ETSI TS 102843 V 1.2.1	Digital Enhanced Cordless Telecommunications (DECT) – New Generation DECT – Additional feature set nr.1 for extended wideband speech services – Profile Test Specification (PTS) and Test Case Library (TCL)	33.070.30	2022-08
ETSI TS 103221-1 V 1.12.1	Lawful Interception (LI) – Internal Network Interfaces – Part 1: X1	33.040.35	2022-08
ETSI TS 103481 V 11.3.0	Smart Cards – Test specification for the Remote APDU structure for UICC based applications – UICC features (Release 11)	35.240.15	2022-08
ETSI TS 103650-1 V 1.2.1	EMTEL – Testing – Conformance test specifications for core elements for network independent access to emergency services (NG112) – Part 1: Protocol Implementation Conformance Statement (PICS), Test Suite Structure and Test Purposes (TSS & TP)	33.040.01	2022-08
ETSI TS 103650-2 V 1.2.1	EMTEL – Testing – Conformance test specifications for core elements for network independent access to emergency services (NG112) – Part 2: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)	33.040.01	2022-08
ETSI TS 103666-1 V 15.9.0	Smart Secure Platform (SSP) – Part 1: General characteristics (Release 15)	35.240.15	2022-08
ETSI TS 103666-1 V 16.5.0	Smart Secure Platform (SSP) – Part 1: General characteristics (Release 16)	35.240.15	2022-08
ETSI TS 103666-2 V 15.4.0	Smart Secure Platform (SSP) – Part 2: Integrated SSP (iSSP) characteristics (Release 15)	35.240.15	2022-08
ETSI TS 103707 V 1.6.1	Lawful Interception (LI) – Handover Interface for HTTP delivery	33.040.35	2022-08
ETSI TR 103708 V 1.1.1	Human Factors (HF) – Real-Time Text (RTT) in Multiparty Conference Calling	33.040.01	2022-08
ETSI TS 103780 V 1.1.1	SmartM2M – SAREF: oneM2M usage guidelines	33.200	2022-08
ETSI TR 103829 V 1.1.1	Lawful Interception (LI) – IP address retention and traceability	33.040.35	2022-08
ETSI TS 103849 V 1.1.1	SmartM2M – Smart Escalator IoT System	33.200	2022-08
ETSI TS 124571 V 17.2.0	5G – 5G System (5GS) – Control plane Location Services (LCS) procedures – Stage 3 (3GPP TS 24.571 version 17.2.0 Release 17)	33.070.50; 33.070.99	2022-08
ETSI TS 124582 V 17.2.0	LTE – Mission Critical Data (MCData) media plane control – Protocol specification (3GPP TS 24.582 version 17.2.0 Release 17)	33.070.99	2022-08
ETSI TS 124587 V 16.9.0	5G – Vehicle-to-Everything (V2X) services in 5G System (5GS) – Stage 3 (3GPP TS 24.587 version 16.9.0 Release 16)	33.070.99	2022-08
ETSI TS 124587 V 17.6.0	5G – Vehicle-to-Everything (V2X) services in 5G System (5GS) – Stage 3 (3GPP TS 24.587 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 124588 V 17.1.0	5G – Vehicle-to-Everything (V2X) services in 5G System (5GS) – User Equipment (UE) policies – Stage 3 (3GPP TS 24.588 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 125304 V 17.1.0	Universal Mobile Telecommunications System(UMTS) – User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode (3GPP TS 25.304 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 125306 V 17.1.0	Universal Mobile Telecommunications System(UMTS) – UE Radio Access capabilities (3GPP TS 25.306 version 17.1.0 Release 17)	33.070.50	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 125331 V 17.1.0	Universal Mobile Telecommunications System(UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 126502 V 17.1.1	5G – 5G Multicast-Broadcast User Service Architecture (3GPP TS 26.502 version 17.1.1 Release 17)	33.070.50	2022-08
ETSI TS 126512 V 16.6.1	5G – 5G Media Streaming (5GMS) – Protocols (3GPP TS 26.512 version 16.6.1 Release 16)	33.070.50	2022-08
ETSI TS 126512 V 17.1.2	5G – 5G Media Streaming (5GMS) – Protocols (3GPP TS 26.512 version 17.1.2 Release 17)	33.070.50	2022-08
ETSI TS 126532 V 17.0.1	5G – Data Collection and Reporting – Protocols and Formats (3GPP TS 26.532 version 17.0.1 Release 17)	33.070.50	2022-08
ETSI TS 127007 V 15.9.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – AT command set for User Equipment (UE) (3GPP TS 27.007 version 15.9.0 Release 15)	33.070.50	2022-08
ETSI TS 127007 V 16.12.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – AT command set for User Equipment (UE) (3GPP TS 27.007 version 16.12.0 Release 16)	33.070.50	2022-08
ETSI TS 127007 V 17.6.0	Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 5G – AT command set for User Equipment (UE) (3GPP TS 27.007 version 17.6.0 Release 17)	33.070.50	2022-08
ETSI TS 128536 V 16.4.1	LTE – 5G – Management and orchestration – Management services for communication service assurance – Stage 2 and stage 3 (3GPP TS 28.536 version 16.4.1 Release 16)	33.070.50	2022-08
ETSI TS 128536 V 17.3.1	LTE – 5G – Management and orchestration – Management services for communication service assurance – Stage 2 and stage 3 (3GPP TS 28.536 version 17.3.1 Release 17)	33.070.50	2022-08
ETSI TS 128541 V 16.13.0	5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 2 and stage 3 (3GPP TS 28.541 version 16.13.0 Release 16)	33.070.50	2022-08
ETSI TS 128541 V 17.7.0	5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 2 and stage 3 (3GPP TS 28.541 version 17.7.0 Release 17)	33.070.50	2022-08
ETSI TS 129379 V 16.5.0	LTE – 5G – Mission Critical Push To Talk (MCPTT) call control interworking with Land Mobile Radio (LMR) systems – Stage-3 (3GPP TS 29.379 version 16.5.0 Release 16)	33.070.99	2022-08
ETSI TS 129379 V 17.5.0	LTE – 5G – Mission Critical Push To Talk (MCPTT) call control interworking with Land Mobile Radio (LMR) systems – Stage-3 (3GPP TS 29.379 version 17.5.0 Release 17)	33.070.99	2022-08
ETSI TS 131102 V 16.11.0	Universal Mobile Telecommunications System(UMTS) – LTE – 5G – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 16.11.0 Release 16)	33.070.50	2022-08
ETSI TS 131102 V 17.6.0	Universal Mobile Telecommunications System(UMTS) – LTE – 5G – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 17.6.0 Release 17)	33.070.50	2022-08
ETSI TS 131121 V 16.8.0	Universal Mobile Telecommunications System(UMTS) – LTE – 5G – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 16.8.0 Release 16)	33.070.50	2022-08
ETSI TS 131124 V 16.8.0	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 16.8.0 Release 16)	33.070.50	2022-08
ETSI TS 134229-1 V 16.2.0	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 16.2.0 Release 16)	33.070.50	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 134229-2 V 16.3.0	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 2: Implementation Conformance Statement (ICS) specification (3GPP TS 34.229-2 version 16.3.0 Release 16)	33.070.50	2022-08
ETSI TS 134229-3 V 16.6.0	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 16.6.0 Release 16)	33.070.50	2022-08
ETSI TS 134229-5 V 16.3.0	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 16.3.0 Release 16)	33.070.50	2022-08
ETSI TS 136101 V 14.23.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 14.23.0 Release 14)	33.070.50; 33.070.99	2022-08
ETSI TS 136101 V 15.19.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 15.19.0 Release 15)	33.070.50; 33.070.99	2022-08
ETSI TS 136101 V 16.14.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 16.14.0 Release 16)	33.070.50; 33.070.99	2022-08
ETSI TS 136101 V 17.6.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 17.6.0 Release 17)	33.070.50; 33.070.99	2022-08
ETSI TS 136124 V 8.3.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 8.3.0 Release 8)	33.070.50	2022-08
ETSI TS 136124 V 9.3.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 9.3.0 Release 9)	33.070.50	2022-08
ETSI TS 136124 V 10.4.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 10.4.0 Release 10)	33.070.50	2022-08
ETSI TS 136124 V 11.3.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 11.3.0 Release 11)	33.070.50	2022-08
ETSI TS 136124 V 12.2.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 36.124 version 12.2.0 Release 12)	33.070.50	2022-08
ETSI TS 136133 V 14.22.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 14.22.0 Release 14)	33.070.50; 33.070.99	2022-08
ETSI TS 136133 V 15.17.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 15.17.0 Release 15)	33.070.50; 33.070.99	2022-08
ETSI TS 136211 V 17.2.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical channels and modulation (3GPP TS 36.211 version 17.2.0 Release 17)	33.070.50	2022-08
ETSI TS 136213 V 17.2.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Physical layer procedures (3GPP TS 36.213 version 17.2.0 Release 17)	33.070.50	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 136300 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136304 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) procedures in idle mode (3GPP TS 36.304 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136305 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN (3GPP TS 36.305 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136306 V 16.9.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 16.9.0 Release 16)	33.070.50	2022-08
ETSI TS 136306 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136321 V 16.8.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 16.8.0 Release 16)	33.070.50	2022-08
ETSI TS 136321 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136323 V 16.6.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 36.323 version 16.6.0 Release 16)	33.070.50	2022-08
ETSI TS 136323 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 36.323 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136331 V 15.18.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 15.18.0 Release 15)	33.070.50	2022-08
ETSI TS 136331 V 16.9.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 16.9.0 Release 16)	33.070.50	2022-08
ETSI TS 136331 V 17.1.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 136521-2 V 16.13.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 16.13.0 Release 16)	33.070.50	2022-08
ETSI TS 136523-2 V 17.2.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 17.2.0 Release 17)	33.070.50	2022-08
ETSI TS 136579-1 V 15.6.0	LTE – Mission Critical (MC) services over LTE – Part 1: Common test environment (3GPP TS 36.579-1 version 15.6.0 Release 15)	33.070.99	2022-08
ETSI TS 136579-2 V 15.4.0	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 15.4.0 Release 15)	33.070.99	2022-08
ETSI TS 136579-4 V 15.4.0	LTE – Mission Critical (MC) services over LTE – Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4 version 15.4.0 Release 15)	33.070.99	2022-08
ETSI TS 136579-5 V 14.7.0	LTE – Mission Critical (MC) services over LTE – Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5 version 14.7.0 Release 14)	33.070.99	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 136579-6 V 15.3.0	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 15.3.0 Release 15)	33.070.99	2022-08
ETSI TS 136579-7 V 15.3.0	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 15.3.0 Release 15)	33.070.99	2022-08
ETSI TR 136903 V 16.0.0	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test tolerances for Radio Resource Management (RRM) conformance tests (3GPP TR 36.903 version 16.0.0 Release 16)	33.070.50	2022-08
ETSI TS 137320 V 17.1.0	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 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 137340 V 16.10.0	Universal Mobile Telecommunications System(UMTS) – LTE – 5G – NR – Multi-connectivity – Overall description – Stage-2 (3GPP TS 37.340 version 16.10.0 Release 16)	33.070.99	2022-08
ETSI TS 137340 V 17.1.0	Universal Mobile Telecommunications System(UMTS) – LTE – 5G – NR – Multi-connectivity – Overall description – Stage-2 (3GPP TS 37.340 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 137355 V 17.1.0	LTE – 5G – LTE Positioning Protocol (LPP) (3GPP TS 37.355 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 137571-2 V 16.12.0	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 16.12.0 Release 16)	33.070.50	2022-08
ETSI TS 137571-3 V 16.12.0	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 16.12.0 Release 16)	33.070.50	2022-08
ETSI TS 137571-4 V 16.6.0	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 16.6.0 Release 16)	33.070.50	2022-08
ETSI TS 137571-5 V 16.8.0	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 16.8.0 Release 16)	33.070.50	2022-08
ETSI TR 137901-5 V 16.8.0	5G – Study on 5G NR User Equipment (UE) application layer data throughput performance (3GPP TR 37.901-5 version 16.8.0 Release 16)	33.070.99	2022-08
ETSI TS 138101-1 V 17.6.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138101-2 V 15.18.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 15.18.0 Release 15)	33.070.99	2022-08
ETSI TS 138101-2 V 16.12.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TS 138101-2 V 17.6.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138101-4 V 15.14.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 15.14.0 Release 15)	33.070.99	2022-08
ETSI TS 138101-4 V 16.9.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 16.9.0 Release 16)	33.070.99	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138101-4 V 17.5.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 4: Performance requirements (3GPP TS 38.101-4 version 17.5.0 Release 17)	33.070.99	2022-08
ETSI TS 138104 V 15.17.0	5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 15.17.0 Release 15)	33.070.99	2022-08
ETSI TS 138104 V 16.12.0	5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TS 138104 V 17.6.0	5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138106 V 17.1.0	5G – NR repeater radio transmission and reception (3GPP TS 38.106 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138113 V 15.16.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.16.0 Release 15)	33.070.99	2022-08
ETSI TS 138113 V 16.6.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 16.6.0 Release 16)	33.070.99	2022-08
ETSI TS 138113 V 17.1.0	5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138124 V 15.8.0	5G – NR – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 38.124 version 15.8.0 Release 15)	33.070.99	2022-08
ETSI TS 138124 V 16.5.0	5G – NR – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 38.124 version 16.5.0 Release 16)	33.070.99	2022-08
ETSI TS 138124 V 17.1.0	5G – NR – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 38.124 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138141-1 V 16.12.0	5G – NR – Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TS 138141-1 V 17.6.0	5G – NR – Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138141-2 V 15.14.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 15.14.0 Release 15)	33.070.99	2022-08
ETSI TS 138141-2 V 16.12.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TS 138141-2 V 17.6.0	5G – NR – Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138151 V 17.1.0	5G – NR – User Equipment (UE) Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) performance requirements (3GPP TS 38.151 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138171 V 16.4.0	5G – NR – Requirements for support of Assisted Global Navigation Satellite System (A-GNSS) (3GPP TS 38.171 version 16.4.0 Release 16)	33.070.99	2022-08
ETSI TS 138171 V 17.1.0	5G – NR – Requirements for support of Assisted Global Navigation Satellite System (A-GNSS) (3GPP TS 38.171 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138174 V 16.7.0	5G – NR – Integrated Access and Backhaul (IAB) radio transmission and reception (3GPP TS 38.174 version 16.7.0 Release 16)	33.070.99	2022-08
ETSI TS 138174 V 17.1.0	5G – NR – Integrated Access and Backhaul (IAB) radio transmission and reception (3GPP TS 38.174 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138176-1 V 16.4.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 1: Conducted conformance testing (3GPP TS 38.176-1 version 16.4.0 Release 16)	33.070.99	2022-08



Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138176-1 V 17.1.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 1: Conducted conformance testing (3GPP TS 38.176-1 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138176-2 V 16.4.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 2: Radiated conformance testing (3GPP TS 38.176-2 version 16.4.0 Release 16)	33.070.99	2022-08
ETSI TS 138176-2 V 17.1.0	5G – NR – Integrated Access and Backhaul (IAB) conformance testing – Part 2: Radiated conformance testing (3GPP TS 38.176-2 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138300 V 16.9.0	5G – NR – NR and NG-RAN Overall description – Stage-2 (3GPP TS 38.300 version 16.9.0 Release 16)	33.070.99	2022-08
ETSI TS 138300 V 17.1.0	5G – NR – NR and NG-RAN Overall description – Stage-2 (3GPP TS 38.300 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138304 V 16.8.0	5G – NR – User Equipment (UE) procedures in idle mode and in RRC Inactive state (3GPP TS 38.304 version 16.8.0 Release 16)	33.070.99	2022-08
ETSI TS 138304 V 17.1.0	5G – NR – User Equipment (UE) procedures in idle mode and in RRC Inactive state (3GPP TS 38.304 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138305 V 17.1.0	5G – NG Radio Access Network (NG-RAN) – Stage 2 functional specification of User Equipment (UE) positioning in NG-RAN (3GPP TS 38.305 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138306 V 15.17.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 15.17.0 Release 15)	33.070.99	2022-08
ETSI TS 138306 V 16.9.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 16.9.0 Release 16)	33.070.99	2022-08
ETSI TS 138306 V 17.1.0	5G – NR – User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138307 V 16.11.0	5G – NR – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 38.307 version 16.11.0 Release 16)	33.070.99	2022-08
ETSI TS 138307 V 17.6.0	5G – NR – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 38.307 version 17.6.0 Release 17)	33.070.99	2022-08
ETSI TS 138314 V 17.1.0	5G – NR – Layer 2 measurements (3GPP TS 38.314 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138321 V 16.9.0	5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 16.9.0 Release 16)	33.070.99	2022-08
ETSI TS 138321 V 17.1.0	5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138322 V 16.3.0	5G – NR – Radio Link Control (RLC) protocol specification (3GPP TS 38.322 version 16.3.0 Release 16)	33.070.99	2022-08
ETSI TS 138322 V 17.1.0	5G – NR – Radio Link Control (RLC) protocol specification (3GPP TS 38.322 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138323 V 16.7.0	5G – NR – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 38.323 version 16.7.0 Release 16)	33.070.99	2022-08
ETSI TS 138323 V 17.1.0	5G – NR – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 38.323 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138331 V 15.18.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 15.18.0 Release 15)	33.070.99	2022-08
ETSI TS 138331 V 16.9.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 16.9.0 Release 16)	33.070.99	2022-08
ETSI TS 138331 V 17.1.0	5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 17.1.0 Release 17)	33.070.99	2022-08
ETSI TS 138340 V 17.1.0	5G – NR – Backhaul Adaptation Protocol (BAP) specification (3GPP TS 38.340 version 17.1.0 Release 17)	33.070.99	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138351 V 17.1.0	5G – NR – Sidelink Relay Adaptation Protocol (SRAP) Specification (3GPP TS 38.351 version 17.1.0 Release 17)	33.070.50	2022-08
ETSI TS 138401 V 17.1.1	5G – NG-RAN – Architecture description (3GPP TS 38.401 version 17.1.1 Release 17)	33.070.99	2022-08
ETSI TS 138413 V 17.1.1	5G – NG-RAN – NG Application Protocol (NGAP) (3GPP TS 38.413 version 17.1.1 Release 17)	33.070.99	2022-08
ETSI TS 138455 V 16.8.1	5G – NG-RAN – NR Positioning Protocol A (NRPPa) (3GPP TS 38.455 version 16.8.1 Release 16)	33.070.99	2022-08
ETSI TS 138455 V 17.1.1	5G – NG-RAN – NR Positioning Protocol A (NRPPa) (3GPP TS 38.455 version 17.1.1 Release 17)	33.070.99	2022-08
ETSI TS 138508-2 V 17.5.0	5G – LTE – 5GS – User Equipment (UE) conformance specification – Part 2: Common Implementation Conformance Statement (ICS) proforma (3GPP TS 38.508-2 version 17.5.0 Release 17)	33.070.99	2022-08
ETSI TS 138509 V 15.13.0	5G – LTE – 5GS – Special conformance testing functions for User Equipment (UE) (3GPP TS 38.509 version 15.13.0 Release 15)	33.070.99	2022-08
ETSI TS 138521-3 V 17.5.0	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 17.5.0 Release 17)	33.070.99	2022-08
ETSI TS 138522 V 17.5.0	5G – NR – User Equipment (UE) conformance specification – Applicability of radio transmission, radio reception and radio resource management test cases (3GPP TS 38.522 version 17.5.0 Release 17)	33.070.99	2022-08
ETSI TS 138523-2 V 16.12.0	5G – LTE – 5GS – User Equipment (UE) conformance specification – Part 2: Applicability of protocol test cases (3GPP TS 38.523-2 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TS 138523-3 V 17.3.0	5G – LTE – 5GS – User Equipment (UE) conformance specification – Part 3: Protocol Test Suites (3GPP TS 38.523-3 version 17.3.0 Release 17)	33.070.99	2022-08
ETSI TR 138903 V 16.12.0	5G – NR – Derivation of test tolerances and measurement uncertainty for User Equipment (UE) conformance test cases (3GPP TR 38.903 version 16.12.0 Release 16)	33.070.99	2022-08
ETSI TR 138905 V 17.5.0	5G – NR – Derivation of test points for radio transmission and reception User Equipment (UE) conformance test cases (3GPP TR 38.905 version 17.5.0 Release 17)	33.070.99	2022-08
ETSI ES 202706-1 V 1.7.1	Environmental Engineering (EE) – Metrics and measurement method for energy efficiency of wireless access network equipment – Part 1: Power consumption – static measurement method	33.040.01	2022-08
ETSI GS CIM 009 V 1.6.1	cross-cutting Context Information Management (CIM) – NGSI-LD API	35.240.01	2022-08
ETSI GS CIM 019 V 1.1.1	cross-cutting Context Information Management (CIM) – handling of provenance information in NGSI-LD	35.080; 35.240.01	2022-08
ETSI GR CIM 021 V 1.1.1	cross-cutting Context Information Management (CIM) usage of external data models with NGSI-LD API	35.080; 35.240.01	2022-08
ETSI GS NFV-SOL 001 V 4.3.1	Network Functions Virtualisation (NFV) Release 4 – Protocols and Data Models – NFV descriptors based on TOSCA specification	35.110	2022-08
EN 300019-2-0 V 2.2.1	Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2: Specification of environmental tests – Sub-part 0: Introduction	33.050.01	2022-08

## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 128-3	Technical product documentation (TPD) – General principles of representation – Part 3: Views, sections and cuts	01.100.01	2022-08
ISO 1461	Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods	25.220.40	2022-08
ISO 1827	Rubber, vulcanized or thermoplastic – Determination of shear modulus and adhesion to rigid plates – Quadruple-shear methods	83.060	2022-08
ISO 2006-1	Rubber latex, synthetic – Determination of mechanical stability – Part 1: High-speed method	83.040.10	2022-08
ISO/TS 2610	Analysis of natural gas – Biomethane – Determination of amines content	75.060	2022-08
ISO 3548-1	Plain bearings – Thin-walled half bearings with or without flange – Part 1: Tolerances, design features and methods of test	21.100.10	2022-08
ISO 3951-1	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	03.120.30	2022-08
ISO 4444	Agricultural sprayers – Recording of spray drift parameters	65.060.40	2022-08
ISO 4646	Rubber- or plastics-coated fabrics – Low-temperature impact test	59.080.40	2022-08
ISO/TS 4667	Coal – Determination of the thermal stability and thermal fragmentation	73.040; 75.160.10	2022-08
ISO/TS 4699	Hard Coal – Determination of plastometric indices – Manual method	73.040	2022-08
ISO 4943	Steel and cast iron – Determination of copper content – Flame atomic absorption spectrometric method	77.080.01	2022-08
ISO 5015-2	Unmanned aircraft systems – Part 2: Operation of vertiports for vertical take-off and landing (VTOL) unmanned aircraft (UA)	49.020	2022-08
ISO 5057	Industrial trucks – Inspection and repair of fork arms in service on fork-lift trucks	53.060	2022-08
ISO 5270	Pulps – Laboratory sheets – Determination of physical properties	85.040	2022-08
ISO 5472	Healthcare organization management – Pandemic response (respiratory) – Walk-through screening station	11.020.01	2022-08
ISO/TR 6026	Electronic fee collection – Pre-study on the use of vehicle licence plate information and automatic number plate recognition (ANPR) technologies	03.220.20; 35.240.60	2022-08
ISO 6942	Protective clothing – Protection against heat and fire – Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat	13.340.10	2022-08
ISO 7010 AMD 6	Graphical symbols – Safety colours and safety signs – Registered safety signs; Amendment 6	01.080.10; 01.080.20	2022-08
ISO 7229	Rubber- or plastics-coated fabrics – Measurement of gas permeability	59.080.40	2022-08
ISO 7936	Coal – Determination and presentation of float and sink characteristics – General directions for apparatus and procedures	73.040	2022-08
ISO 8102-20	Electrical requirements for lifts, escalators and moving walks – Part 20: Cybersecurity	91.140.90	2022-08
ISO 8362-2 AMD 1	Injection containers and accessories – Part 2: Closures for injection vials; Amendment 1	11.040.20	2022-08
ISO 8504-4	Preparation of steel substrates before application of paints and related products – Surface preparation methods – Part 4: Acid pickling	25.220.10	2022-08
ISO 9288	Thermal insulation – Heat transfer by radiation – Vocabulary	01.060; 27.220	2022-08
ISO 9845-1	Solar energy – Reference solar spectral irradiance at the ground at different receiving conditions – Part 1: Direct normal and hemispherical solar irradiance for air mass 1,5	27.160	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 10008	Quality management – Customer satisfaction – Guidance for business-to-consumer electronic commerce transactions	03.120.10	2022-08
ISO 10010	Quality management – Guidance to understand, evaluate and improve organizational quality culture	03.120.10	2022-08
ISO 10101-1	Natural gas – Determination of water by the Karl Fischer method – Part 1: General requirements	75.060	2022-08
ISO 10101-2	Natural gas – Determination of water by the Karl Fischer method – Part 2: Volumetric procedure	75.060	2022-08
ISO 10231	Motorcycle tyres – Test methods for verifying tyre capabilities	83.160.10	2022-08
ISO 10576	Statistical methods – Guidelines for the evaluation of conformity with specified requirements	03.120.30	2022-08
ISO 11114-6	Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 6: Oxygen pressure surge testing	23.020.35	2022-08
ISO 11515	Gas cylinders – Refillable composite reinforced tubes of water capacity between 450 l and 3000 l – Design, construction and testing	23.020.35	2022-08
ISO 11615 AMD 1	Health informatics – Identification of medicinal products – Data elements and structures for the unique identification and exchange of regulated medicinal product information; Amendment 1	35.240.80	2022-08
ISO/CIE 11664-6	Colorimetry – Part 6: CIEDE2000 colour-difference formula	17.180.20	2022-08
ISO 12623	Thermal insulating products for building equipment and industrial installations – Determination of short-term water absorption by partial immersion of preformed pipe insulation	91.100.60	2022-08
ISO 12624	Thermal insulating products for building equipment and industrial installations – Determination of trace quantities of water-soluble chloride, fluoride, silicate, sodium ions and pH	91.100.60	2022-08
ISO 12625-4	Tissue paper and tissue products – Part 4: Determination of tensile strength, stretch at maximum force and tensile energy absorption	85.080.20	2022-08
ISO 12628	Thermal insulating products for building equipment and industrial installations – Determination of dimensions, squareness and linearity of preformed pipe insulation	91.100.60	2022-08
ISO 12629	Thermal insulating products for building equipment and industrial installations – Determination of water vapour transmission properties of preformed pipe insulation	91.100.60	2022-08
ISO 12640-3	Graphic technology – Prepress digital data exchange – Part 3: CIELAB standard colour image data (CIELAB/SCID)	35.240.30; 37.100.99	2022-08
ISO 12749-2	Nuclear energy, nuclear technologies, and radiological protection – Vocabulary – Part 2: Radiological protection	01.040.13; 13.280	2022-08
ISO 13284	Industrial trucks – Fork arm extensions and telescopic fork arms – Technical characteristics and strength requirements	53.060	2022-08
ISO 13528	Statistical methods for use in proficiency testing by interlaboratory comparison	03.120.30	2022-08
ISO 13736 AMD 1	Determination of flash point – Abel closed-cup method – Amendment 1: Bias statement update	75.080	2022-08
ISO 14100	Guidance on environmental criteria for projects, assets and activities to support the development of green finance	03.060; 13.020.20	2022-08
ISO 14839-5	Mechanical vibration – Vibration of rotating machinery equipped with active magnetic bearings – Part 5: Touch-down bearings	17.160	2022-08
ISO/TR 14997-2	Optics and photonics – Test methods for surface imperfections of optical elements – Part 2: Machine vision	37.020	2022-08
ISO/IEC 15408-1	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 1: Introduction and general model	35.030	2022-08
ISO/IEC 15408-2	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 2: Security functional components	35.030	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC 15408-3	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 3: Security assurance components	35.030	2022-08
ISO/IEC 15408-4	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 4: Framework for the specification of evaluation methods and activities	35.030	2022-08
ISO/IEC 15408-5	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 5: Pre-defined packages of security requirements	35.030	2022-08
ISO/IEC 15938-17	Information technology – Multimedia content description interface – Part 17: Compression of neural networks for multimedia content description and analysis	35.040.40	2022-08
ISO 16128-2 AMD 1	Cosmetics – Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients – Part 2: Criteria for ingredients and products; Amendment 1	71.100.70	2022-08
ISO 16474-2 AMD 1	Paints and varnishes – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps – Amendment 1: Classification of daylight filters	87.040	2022-08
ISO 16609	Financial services – Requirements for message authentication using symmetric techniques	35.240.40	2022-08
ISO 17072-2	Leather – Chemical determination of metal content – Part 2: Total metal content	59.140.30	2022-08
ISO 17584	Refrigerant properties	71.100.45	2022-08
ISO/IEC 18045	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Methodology for IT security evaluation	35.030	2022-08
ISO 18096	Thermal insulating products for building equipment and industrial installations – Determination of maximum service temperature for preformed pipe insulation	91.100.60	2022-08
ISO 18097	Thermal insulating products for building equipment and industrial installations – Determination of maximum service temperature	91.100.60	2022-08
ISO 18098	Thermal insulating products for building equipment and industrial installations – Determination of the apparent density of preformed pipe insulation	91.100.60	2022-08
ISO 18099	Thermal insulating products for building equipment and industrial installations – Determination of the coefficient of thermal expansion	91.100.60	2022-08
ISO/IEC 18181-4	Information technology – JPEG XL image coding system – Part 4: Reference software	35.040.30	2022-08
ISO/TS 18759	Document management – Trustworthy storage system (TSS) – Functional and technical requirements	35.240.30; 37.080	2022-08
ISO/IEC TR 19583-21	Information technology – Concepts and usage of metadata – Part 21: 11179-3 Data model in SQL	35.040.50; 35.060	2022-08
ISO 19650-4	Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 4: Information exchange	35.240.67; 91.010.01; 93.010	2022-08
ISO/TS 20141	Personal safety – Personal protective equipment – Guidelines on compatibility testing of PPE	13.340.01	2022-08
ISO/TS 20362	Hard coal – Determination of plastometric indices – Automated Sapozhnikov penetration plastometer method	73.040	2022-08
ISO 20998-2	Measurement and characterization of particles by acoustic methods – Part 2: Linear theory	19.120	2022-08
ISO 21009-1	Cryogenic vessels – Static vacuum-insulated vessels – Part 1: Design, fabrication, inspection and tests	23.020.40	2022-08
ISO 21111-8	Road vehicles – In-vehicle Ethernet – Part 8: Electrical 100-Mbit/s Ethernet transmission media, components and tests	43.040.10	2022-08
ISO/TS 21328	Graphic technology – Guidelines and recommendations for multicolour (CMYKOGV) print characterization	37.100.01	2022-08
ISO 21606	Dentistry – Elastomeric auxiliaries for use in orthodontics	11.060.10	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 22074-4	Railway infrastructure – Rail fastening systems – Part 4: Test methods for resistance to repeated loading	45.080	2022-08
ISO/TR 22126-5	Financial services – Semantic technology – Part 5: Mapping from FIX Orchestra to the common model	03.060; 35.240.40	2022-08
ISO 22441	Sterilization of health care products – Low temperature vaporized hydrogen peroxide – Requirements for the development, validation and routine control of a sterilization process for medical devices	11.080.01	2022-08
ISO 22674	Dentistry – Metallic materials for fixed and removable restorations and appliances	11.060.10	2022-08
ISO/IEC 23008-3	Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 3: 3D audio	35.040.40	2022-08
ISO/IEC 23009-1	Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats	35.040.40	2022-08
ISO 23019	Railway applications – Driving simulator for drivers' training	03.220.30; 45.020	2022-08
ISO 23120	Ships and marine technology – Graphical symbols for computer-based incident response systems	01.080.10; 47.020.01	2022-08
ISO 23380	Coal – Selection of methods for the determination of trace elements – Guidance and requirements	73.040	2022-08
ISO/TS 23483	Carbon fibres – Determination of polyacrylonitrile-based (PAN-based) carbon fibre tow characteristics – Heat transfer parameter	59.100.20	2022-08
ISO 23611-4	Soil quality – Sampling of soil invertebrates – Part 4: Sampling, extraction and identification of soil-inhabiting nematodes	13.080.05; 13.080.30	2022-08
ISO 23674	Cosmetics – Analytical methods – Direct determination of traces of mercury in cosmetics by thermal decomposition and atomic absorption spectrometry (mercury analyser)	71.100.70	2022-08
ISO 23678-1	Ships and marine technology – Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear – Part 1: General requirements for training providers	03.100.30; 47.020.01	2022-08
ISO 23678-2	Ships and marine technology – Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear – Part 2: Service personnel initial training	03.100.30; 47.020.01	2022-08
ISO 23678-3	Ships and marine technology – Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear – Part 3: Level 1 technical training	03.100.30; 47.020.01	2022-08
ISO 23678-4	Ships and marine technology – Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear – Part 4: Level 2 in-field competence	03.100.30; 47.020.01	2022-08
ISO 23783-1	Automated liquid handling systems – Part 1: Vocabulary and general requirements	01.040.71; 71.040.20	2022-08
ISO 23783-2	Automated liquid handling systems – Part 2: Measurement procedures for the determination of volumetric performance	17.060; 71.040.20	2022-08
ISO 23783-3	Automated liquid handling systems – Part 3: Determination, specification and reporting of volumetric performance	17.060; 71.040.20	2022-08
ISO 23821	Cosmetics – Analytical methods – Determination of traces of mercury in cosmetics by atomic absorption spectrometry (AAS) cold vapour technology after pressure digestion	71.100.70	2022-08
ISO 23963-2	Traditional Chinese medicine – Requirements for process traceability system of Chinese materia medica and decoction pieces – Part 2: Electronic labelling	11.120.10	2022-08
ISO 23964	Traditional Chinese medicine – Saposchnikovia divaricata root and rhizome	11.120.10	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 24021-1	Light gauge metal containers – Vocabulary and classification – Part 1: Open-top cans and ends	01.040.55; 55.120	2022-08
ISO 24046	Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods of tests for reinforcements – Determination of the tensile properties of resin-impregnated yarns	81.060.30	2022-08
ISO 24071	Aircraft – Auto-transformer rectifier units (ATRU) – General requirements	49.060	2022-08
ISO 24166-1	Snap-on bottles for metering pumps – Part 1: Tubular glass	11.120.99	2022-08
ISO 24166-2	Snap-on bottles for metering pumps – Part 2: Moulded glass	11.120.99	2022-08
ISO 24166-3	Snap-on bottles for metering pumps – Part 3: Plastic	11.120.99	2022-08
ISO 24185	Evaluation of the uncertainty of measurements from a stationary autocorrelated process	17.020	2022-08
ISO 24211	Vapour products – Determination of selected carbonyls in vapour product emissions	65.160	2022-08
ISO 24224	Ships and marine technology – Tanker cargo manifold shore connection – Technical requirements	47.020.30	2022-08
ISO 24335	Laminate floor coverings – Determination of impact resistance	97.150	2022-08
ISO 24356	General requirements for tethered unmanned aircraft systems	49.020	2022-08
ISO 24365	Radiators and convectors – Methods and rating for determining the heat output	91.040.01; 97.100.01	2022-08
ISO/IEC TR 24368	Information technology – Artificial intelligence – Overview of ethical and societal concerns	35.020	2022-08
ISO 24477	Vacuum technology – Vacuum gauges – Specifications, calibration and measurement uncertainties for spinning rotor gauges	23.160	2022-08
ISO/TS 24519	Service activities relating to drinking water supply, wastewater and stormwater systems – Water and wastewater services for temporary settlements for displaced persons	03.080.30; 03.100.01; 13.060.01	2022-08
ISO 24603	Biotechnology – Biobanking – Requirements for human and mouse pluripotent stem cells	7.080	2022-08
ISO 24651	Biotechnology – Biobanking – Requirements for human mesenchymal stromal cells derived from bone marrow	7.080	2022-08
ISO 24678-2	Fire safety engineering – Requirements governing algebraic formulae – Part 2: Fire plume	13.220.01	2022-08
ISO 24678-3	Fire safety engineering – Requirements governing algebraic formulae – Part 3: Ceiling jet flows	13.220.01	2022-08
ISO 24678-9	Fire safety engineering – Requirements governing algebraic formulae – Part 9: Ejected flame from an opening	13.220.01	2022-08
ISO 24683	High fructose syrup – Specifications and test methods	67.180.20	2022-08
ISO 26324	Information and documentation – Digital object identifier system	01.140.20	2022-08
ISO 26824	Particle characterization of particulate systems – Vocabulary	01.040.19; 19.120	2022-08
ISO/IEC 29146 AMD 1	Information technology – Security techniques – A framework for access management; Amendment 1	35.030	2022-08
ISO 29461-2	Air intake filter systems for rotary machinery – Test methods – Part 2: Filter element endurance test in fog and mist environments	29.160.99	2022-08
ISO 29465	Thermal insulating products for building applications – Determination of length and width	91.100.60	2022-08
ISO 29468	Thermal insulating products for building applications – Determination of flatness	91.100.60	2022-08
ISO 29768	Thermal insulating products for building applications – Determination of linear dimensions of test specimens	91.100.60	2022-08
ISO 29770	Thermal insulating products for building applications – Determination of thickness for floating-floor insulating products	91.100.60	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC 30142-2	Internet of Things (IoT) – Underwater acoustic sensor network (UWASN) – Network management system – Part 2: Underwater management information base (u-MIB)	35.110; 35.240.95	2022-08
ISO/ASTM 51940	Guidance for dosimetry for sterile insects release programs	07.080; 17.240	2022-08
ISO 81346-10	Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 10: Power supply systems	1.110	2022-08



## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC PAS 61851-2	Electric vehicle conductive charging system – Part 1-1 : Specific requirements for electric vehicle conductive charging system using type 4 vehicle coupler	43.120	2022-08
IEC/TR 61000-2-15	Electromagnetic compatibility – Part 2-15: Description of the characteristics of networks with high penetration of power electronics equipment	33.100.01; 35.110	2022-08
IEC/TR 61292-9	Optical amplifiers – Part 9: Semiconductor optical amplifiers (SOAs)	33.180.30	2022-08
IEC/TR 61292-4	Optical amplifiers – Part 4: Maximum permissible optical power for the damage-free and safe use of optical amplifiers, including Raman amplifiers	33.180.30	2022-08
IEC/TR 61292-6	Optical amplifiers – Part 6: Distributed Raman amplification	33.180.30	2022-08
IEC/TR 62343-6-12	Dynamic Modules – Part 6-12: Design guideline – Survey results on performance specifications for 1 x N wavelength selective switches	33.180.30	2022-08
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	2022-08
IEC 60050-826	International Electrotechnical Vocabulary (IEV) – Part 826: Electrical installations	01.040.29; 01.040.91; 29.040.01; 91.140.50	2022-08
IEC 60092-304	Electrical installations in ships – Part 304: Equipment – Semiconductor converters	47.020.60	2022-08
IEC 60118-0	Electroacoustics – Hearing aids – Part 0: Measurement of the performance characteristics of hearing aids	11.180.15; 17.140.50	2022-08
IEC 60598-2-18	Luminaires – Part 2-18: Particular requirements – Luminaires for swimming pools and similar applications	29.140.40; 97.220.10	2022-08
IEC 60601-2-33	Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis	11.040.55	2022-08
IEC 60601-2-45 AMD 2	Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices; Amendment 2	11.040.50	2022-08
IEC 60601-2-45 Edition 3.2	Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices	11.040.50	2022-08
IEC 60884-1	Plugs and socket-outlets for household and similar purposes – Part 1: General requirements	29.120.30	2022-08
IEC/TR 61094-10	Electroacoustics – Measurement microphones – Part 10: Absolute pressure calibration of microphones at low frequencies using calculable pistonphones	17.140.50; 33.160.50	2022-08
IEC 61139-2	Industrial networks – Single-drop digital communication interface – Part 2: Functional safety extensions	25.040.40; 35.240.50	2022-08
IEC 61196-1-124	Coaxial communication cables – Part 1-124: Electrical test methods – Test for coupling loss of radiating cable	33.120.10	2022-08
IEC 61400-12-3	Wind energy generation systems – Part 12-3: Power performance – Measurement based site calibration	27.180	2022-08
IEC 61400-12-5	Wind energy generation systems – Part 12-5: Power performance – Assessment of obstacles and terrain	27.180	2022-08
IEC 61400-12-6	Wind energy generation systems – Part 12-6: Measurement based nacelle transfer function of electricity producing wind turbines	27.180	2022-08
IEC 61400-50	Wind energy generation systems – Part 50: Wind measurement – Overview	27.180	2022-08
IEC 61400-50-2	Wind energy generation systems – Part 50-2: Wind measurement – Application of ground-mounted remote sensing technology	27.180	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
IEC 61753-043-02	Fibre optic interconnecting devices and passive components – Performance standard – Part 043-02: Simplex patch-cord style single-mode fibre wavelength selective devices with cylindrical ferrule connectors for category C – Controlled environment	33.180.20	2022-08
IEC 61753-089-02	Fibre optic interconnecting devices and passive components – Performance standard – Part 089-02: Non-connectorised single-mode bidirectional OTDR monitoring WWDM for category C – Indoor controlled environment	33.180.20	2022-08
IEC 61755-2-1	Fibre optic interconnecting devices and passive components – Connector optical interfaces for single-mode fibres – Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres – Non-angled	33.180.20	2022-08
IEC 61788-22-3	Superconductivity – Part 22-3: Superconducting strip photon detector – Dark count rate	29.050	2022-08
IEC 61800-5-1	Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy	13.110; 29.130.99; 29.160.30; 29.200	2022-08
IEC 61855	Household and similar use electrical hair care appliances – Methods for measuring the performance	97.170	2022-08
IEC 62077	Fibre optic interconnecting devices and passive components – Fibre optic circulators – Generic specification	33.180.20	2022-08
IEC 62282-4-101	Fuel cell technologies – Part 4-101: Fuel cell power systems for electrically powered industrial trucks – Safety	27.070	2022-08
IEC 62282-4-600	Fuel cell technologies – Part 4-600: Fuel cell power systems for propulsion other than road vehicles and auxiliary power units (APU) – Fuel cell/battery hybrid systems performance test methods for excavators	27.070	2022-08
IEC/TS 62351-100-6	Power systems management and associated information exchange – Data and communication security – Part 100-6: Cybersecurity conformance testing for IEC 61850-8-1 and IEC 61850-9-2	33.200; 35.030; 35.240.50	2022-08
IEC 62443-4-2 Corrigendum 1	Security for industrial automation and control systems – Part 4-2: Technical security requirements for IACS components; Corrigendum 1	25.040.40; 35.030; 35.240.50	2022-08
IEC 62453-2	Field device tool (FDT) interface specification – Part 2: Concepts and detailed description	25.040.40; 35.100.05; 35.110; 35.160; 35.240.50	2022-08
IEC 62590-3-1	Railway applications – Fixed installations – Electronic power converters – Part 3-1: AC traction applications – Electronic power compensators	29.200; 29.280; 45.060.01	2022-08
IEC/TS 62788-6-3	Measurement procedures for materials used in photovoltaic modules – Part 6-3: Adhesion testing for PV module laminates using the single cantilevered beam (SCB) method	27.160	2022-08
IEC SRD 62913-1	Generic smart grid requirements – Part 1: Specific application of the use case methodology for defining generic smart grid requirements according to the IEC systems approach	29.020; 35.240.50	2022-08
IEC/TS 63209-2	Photovoltaic modules – Extended-stress testing – Part 2: Polymeric component materials	27.160	2022-08
ISO/IEC 15408-1	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 1: Introduction and general model	35.030	2022-08
ISO/IEC 15408-2	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 2: Security functional components	35.030	2022-08
ISO/IEC 15408-3	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 3: Security assurance components	35.030	2022-08
ISO/IEC 15408-4	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 4: Framework for the specification of evaluation methods and activities	35.030	2022-08

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/IEC 15408-5	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Part 5: Pre-defined packages of security requirements	35.030	2022-08
ISO/IEC 15938-17	Information technology – Multimedia content description interface – Part 17: Compression of neural networks for multimedia content description and analysis	35.040.40	2022-08
ISO/IEC 18045	Information security, cybersecurity and privacy protection – Evaluation criteria for IT security – Methodology for IT security evaluation	35.030	2022-08
ISO/IEC 18181-4	Information technology – JPEG XL image coding system – Part 4: Reference software	35.040.30	2022-08
ISO/IEC TR 19583-21	Information technology – Concepts and usage of metadata – Part 21: 11179-3 Data model in SQL	35.040.50; 35.060	2022-08
ISO/IEC 23008-3	Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 3: 3D audio	35.040.40	2022-08
ISO/IEC 23009-1	Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats	35.040.40	2022-08
ISO/IEC TR 24368	Information technology – Artificial intelligence – Overview of ethical and societal concerns	35.020	2022-08
ISO/IEC 29146 AMD 1	Information technology – Security techniques – A framework for access management; Amendment 1	35.030	2022-08
ISO/IEC 30142-2	Internet of Things (IoT) – Underwater acoustic sensor network (UWASN) – Network management system – Part 2: Underwater management information base (u-MIB)	35.110; 35.240.95	2022-08
ISO 81346-10	Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 10: Power supply systems	1.110	2022-08