

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

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

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 1 Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

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

Hrvatske norme mogu nastati na ova tri načina:

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

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

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

- HRN EN ISO 5263-3:2023 en pr  
Pulpe – Laboratorijsko mokro razvlaknjavanje – 3. dio: Razvlaknjavanje mehaničkih pulpi na > 85 °C (ISO 5263-3:2023; EN ISO 5263-3:2023)
- Pulps – Laboratory wet disintegration – Part 3: Disintegration of mechanical pulps at > 85°C (ISO 5263-3:2023; EN ISO 5263-3:2023)

### HZN/TO 22, *Cestovna vozila*

- HRN EN ISO 15118-9:2023 en pr  
Cestovna vozila – Komunikacijsko sučelje između vozila i električne mreže – 9. dio: Provjera usklađenosti fizičkog i podatkovnog sloja za bežičnu komunikaciju (ISO 15118-9:2022; EN ISO 15118-9:2023)
- Road vehicles – Vehicle to grid communication interface – Part 9: Physical and data link layer conformance test for wireless communication (ISO 15118-9:2022; EN ISO 15118-9:2023)

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

- HRN EN 17750:2023 en pr  
Strojevi za poljoprivredu i šumarstvo – Ugradnja uređaja za osvijetljavanje i svjetlosnu signalizaciju na priključnim strojevima (EN 17750:2023)
- Agricultural and forestry machinery – Installation of lighting and light signalling devices on mounted implements (EN 17750:2023)

- HRN EN ISO 25119-1:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 1. dio: Opća načela za projektiranje i razvoj (ISO 25119-1:2018; EN ISO 25119-1:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1: General principles for design and development (ISO 25119-1:2018; EN ISO 25119-1:2023)

- HRN EN ISO 25119-1:2023/A1:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 1. dio: Opća načela za projektiranje i razvoj (ISO 25119-1:2018/Amd 1:2020; EN ISO 25119-1:2023/A1:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1: General principles for design and development (ISO 25119-1:2018/Amd 1:2020; EN ISO 25119-1:2023/A1:2023)

- HRN EN ISO 25119-2:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 2. dio: Faza koncepta (ISO 25119-2:2019; EN ISO 25119-2:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 2: Concept phase (ISO 25119-2:2019; EN ISO 25119-2:2023)

- HRN EN ISO 25119-3:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 3. dio: Razvoj nizova, hardvera i softvera (ISO 25119-3:2018; EN ISO 25119-3:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3: Series development, hardware and software (ISO 25119-3:2018; EN ISO 25119-3:2023)

- HRN EN ISO 25119-3:2023/A1:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 3. dio: Razvoj nizova, hardvera i softvera (ISO 25119-3:2018/Amd 1:2020; EN ISO 25119-3:2023/A1:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3: Series development, hardware and software (ISO 25119-3:2018/Amd 1:2020; EN ISO 25119-3:2023/A1:2023)

- HRN EN ISO 25119-4:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 4. dio: Proizvodnja, rad, modifikacija i postupci za podršku (ISO 25119-4:2018; EN ISO 25119-4:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2018; EN ISO 25119-4:2023)

- HRN EN ISO 25119-4:2023/A1:2023 en pr  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 4. dio: Proizvodnja, rad, modifikacija i postupci za podršku (ISO 25119-4:2018/Amd 1:2020; EN ISO 25119-4:2023/A1:2023)
- Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2018/Amd 1:2020; EN ISO 25119-4:2023/A1:2023)

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

- HRN EN 589:2022/NA:2023/Ispr.1:2023 hr izv  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja – Nacionalni dodatak
- Automotive fuels – LPG – Requirements and test methods – National Annex

- HRN EN ISO 12156-1:2023 en pr  
Dizelsko gorivo – Ocjenjivanje mazivosti uporabom vibracijskog uređaja visoke frekvencije (HFRR) – 1. dio: Metoda ispitivanja (ISO 12156-1:2023; EN ISO 12156-1:2023)
- Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method (ISO 12156-1:2023; EN ISO 12156-1:2023)

### HZN/TO 43, *Akustika*

- HRN EN ISO 10534-2:2023 en pr  
Akustika – Određivanje akustičkih svojstava u impedancijskim cijevima – 2. dio: Tehnika dvaju mikrofona za određivanje koeficijenta zvučne apsorpcije i površinske impedancije (ISO 10534-2:2023; EN ISO 10534-2:2023)
- Acoustics – Determination of acoustic properties in impedance tubes – Part 2: Two-microphone technique for normal sound absorption coefficient and normal surface impedance (ISO 10534-2:2023; EN ISO 10534-2:2023)

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

- HRN EN ISO 5179:2023 en pr  
Ispitivanje lemljivosti sa testom širenja i popunjavanja praznina (ISO 5179:2021; EN ISO 5179:2023)
- Investigation of brazeability with spreading and gap-filling test (ISO 5179:2021; EN ISO 5179:2023)

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

- HRN EN ISO 12460-3:2023 en pr  
Ploče na osnovi drva – Određivanje otpuštanja formaldehida – 3. dio: Metoda analize plina (ISO 12460-3:2023; EN ISO 12460-3:2023)
- Wood-based panels – Determination of formaldehyde release – Part 3: Gas analysis method (ISO 12460-3:2023; EN ISO 12460-3:2023)

## HZN/TO 92, *Zaštita od požara*

HRN EN ISO 13943:2023 en pr  
Zaštita od požara – Terminološki rječnik (ISO 13943:2023;  
EN ISO 13943:2023)  
Fire safety – Vocabulary (ISO 13943:2023; EN ISO 13943:2023)

## HZN/TO 120, *Koža i obuća*

HRN EN 16484:2023 en pr  
Koža – Zahtjevi za određivanje podrijetla proizvodnje kože  
(EN 16484:2023)  
Leather – Requirements for the determination of the origin of  
leather production (EN 16484:2023)

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

HRS CEN ISO/TS 16486-7:2023 en pr  
Plastični cijevni sustavi za opskrbu plinovitim gorivima  
– Cijevni sustavi od neomekšanog poliamida (PA-U) spajani  
zavarivanjem i mehaničkim spojnica – 7. dio: Ocjena  
sukladnosti (ISO/TS 16486-7:2023; CEN ISO/TS 16486-7:2023)  
Plastics piping systems for the supply of gaseous fuels  
– Unplasticized polyamide (PA-U) piping systems with fusion  
jointing and mechanical jointing – Part 7: Assessment of  
conformity (ISO/TS 16486-7:2023; CEN ISO/TS 16486-7:2023)

## HZN/TO 159, *Ergonomija*

HRN EN ISO 15535:2023 en pr  
Opći zahtjevi za utvrđivanje antropometrijske baze podataka  
(ISO 15535:2023; EN ISO 15535:2023)  
General requirements for establishing anthropometric  
databases (ISO 15535:2023; EN ISO 15535:2023)

HRN EN ISO 20685-2:2023 en pr  
Ergonomija – 3-D metodologije skeniranja za međunarodno  
kompatibilne antropometrijske baze podataka – 2. dio:  
Evaluacijski protokol oblika površine i ponovljivosti relativnih  
referentnih pozicija (ISO 20685-2:2023; EN ISO 20685-2:2023)  
Ergonomics – 3-D scanning methodologies for internationally  
compatible anthropometric databases – Part 2: Evaluation  
protocol of surface shape and repeatability of relative landmark  
positions (ISO 20685-2:2023; EN ISO 20685-2:2023)

## HZN/TO 163, *Toplinska izolacija*

HRN EN ISO 52016-3:2023 en pr  
Energijaska svojstva zgrada – Energija potrebna za grijanje i  
hlađenje, unutarnje temperature i osjetna i latentna toplinska  
opterećenja – 3. dio: Postupci proračuna s obzirom na  
prilagodljive elemente ovojnice zgrade (ISO 52016-3:2023;  
EN ISO 52016-3:2023)  
Energy performance of buildings – Energy needs for heating  
and cooling, internal temperatures and sensible and latent  
heat loads – Part 3: Calculation procedures regarding  
adaptive building envelope elements (ISO 52016-3:2023;  
EN ISO 52016-3:2023)

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

HRN EN 16232:2023 en pr  
Proizvodi za dojenčad i malu djecu – Njihaljke za dojenčad  
(EN 16232:2013+A2:2023)  
Child use and care articles – Infant swings  
(EN 16232:2013+A2:2023)

## HZN/TO 182, *Geotehničke konstrukcije*

HRN EN ISO 18674-8:2023 en pr  
Geotehničko istraživanje i ispitivanje – Geotehničko opažanje  
terenskom mjernom opremom – 8. dio: Mjerenje sila: Tlačne  
ćelije (ISO 18674-8:2023; EN ISO 18674-8:2023)  
Geotechnical investigation and testing – Geotechnical  
monitoring by field instrumentation – Part 8: Measurement of  
forces: Load cells (ISO 18674-8:2023; EN ISO 18674-8:2023)

## HZN/TO 217, *Kozmetika*

HRN EN ISO 4973:2023 en pr  
Kozmetika – Mikrobiologija – Kontrola kvalitete hranjivih  
podloga i sredstava za razrjeđivanje opisanih u normama za  
kozmetiku (ISO 4973:2023; EN ISO 4973:2023)  
Cosmetics – Microbiology – Quality control of culture media  
and diluents used in cosmetics standards (ISO 4973:2023;  
EN ISO 4973:2023)

## HZN/TO 503, *Metalni materijali*

HRN EN ISO 683-17:2023 en pr  
Toplinski obrađeni čelici, legirani čelici i čelici za obradu na  
automatima – 17. dio: Čelici za kuglične i valjkaste ležaje  
(ISO 683-17:2023; EN ISO 683-17:2023)  
Heat-treated steels, alloy steels and free-cutting steels  
– Part 17: Ball and roller bearing steels (ISO 683-17:2023;  
EN ISO 683-17:2023)

HRN EN ISO 2740:2023 en pr  
Sinterirani metalni materijali, osim tvrdih metala – Dijelovi za  
vlačno ispitivanje (ISO 2740:2023; EN ISO 2740:2023)  
Sintered metal materials, excluding hardmetals – Tensile test  
pieces (ISO 2740:2023; EN ISO 2740:2023)

HRN EN ISO 3887:2023 en pr  
Čelici – Određivanje dubine razugljičenja (ISO 3887:2023;  
EN ISO 3887:2023)  
Steels – Determination of the depth of decarburization  
(ISO 3887:2023; EN ISO 3887:2023)

HRN EN ISO 4545-1:2023 en pr  
Metalni materijali – Ispitivanje tvrdoće prema Knoopu – 1. dio:  
Metoda ispitivanja (ISO 4545-1:2023; EN ISO 4545-1:2023)  
Metallic materials – Knoop hardness test – Part 1: Test  
method (ISO 4545-1:2023; EN ISO 4545-1:2023)

HRN EN ISO 5754:2023 en pr  
Sinterirani metalni materijali, osim tvrdih metala – Ispitni  
uzorak bez ureza za ispitivanje žilavosti (ISO 5754:2023;  
EN ISO 5754:2023)  
Sintered metal materials, excluding hardmetals – Unnotched  
impact test piece (ISO 5754:2023; EN ISO 5754:2023)

HRN EN ISO 6306:2023 en pr  
Kemijska analiza čelika – Redoslijed navođenja elemenata u  
normama za čelik (ISO 6306:2020; EN ISO 6306:2023)  
Chemical analysis of steel – Order of listing elements in steel  
standards (ISO 6306:2020; EN ISO 6306:2023)

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

HRN EN ISO 12736-1:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim udjelom  
ugljika – Sustavi vlažne toplinske izolacije za cjevovode i  
podmorsku opremu – 1. dio: Validacija materijala i izolacijskih  
sustava (ISO 12736-1:2023; EN ISO 12736-1:2023)  
Oil and gas industries including lower carbon energy  
– Wet thermal insulation systems for pipelines and subsea  
equipment – Part 1: Validation of materials and insulation  
systems (ISO 12736-1:2023; EN ISO 12736-1:2023)

HRN EN ISO 12736-2:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim udjelom  
ugljika – Sustavi vlažne toplinske izolacije za cjevovode  
i podmorsku opremu – 2. dio: Kvalifikacijski procesi za  
proizvodnju i postupci primjene (ISO 12736-2:2023;  
EN ISO 12736-2:2023)  
Oil and gas industries including lower carbon energy  
– Wet thermal insulation systems for pipelines and  
subsea equipment – Part 2: Qualification processes for  
production and application procedures (ISO 12736-2:2023;  
EN ISO 12736-2:2023)

HRN EN ISO 12736-3:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim udjelom  
ugljika – Sustavi vlažne toplinske izolacije za cjevovode i  
podmorsku opremu – 3. dio: Sučelja između sustava, priključni  
sustav na terenu, popravci na terenu i tvornički pripremljena  
izolacija (ISO 12736-3:2023; EN ISO 12736-3:2023)  
Oil and gas industries including lower carbon energy  
– Wet thermal insulation systems for pipelines and subsea  
equipment – Part 3: Interfaces between systems, field  
joint system, field repairs and prefabricated insulation  
(ISO 12736-3:2023; EN ISO 12736-3:2023)

HRN EN ISO 13703-3:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim udjelom  
ugljika – Sustavi cjevovoda na proizvodnim platformama  
na moru i postrojenjima na kopnu – 3. dio: Proizvodnja  
(ISO 13703-3:2023; EN ISO 13703-3:2023)  
Oil and gas industries including lower carbon energy – Piping  
systems on offshore production platforms and onshore plants  
– Part 3: Fabrication (ISO 13703-3:2023; EN ISO 13703-3:2023)

HRN EN ISO 15551:2023 en pr  
Industrija nafte i prirodnoga plina – Oprema za bušenje i proizvodnju – Električne uronjive pumpe za mehaničko podizanje fluida (ISO 15551:2023; EN ISO 15551:2023)  
Petroleum and natural gas industries – Drilling and production equipment – Electric submersible pump systems for artificial lift (ISO 15551:2023; EN ISO 15551:2023)

HRN EN ISO 19901-8:2023 en pr  
Industrije nafte i plina uključujući energiju s niskim ugljikom – Odobalne konstrukcije – 8. dio: Istraživanja morskog dna (ISO 19901-8:2023; EN ISO 19901-8:2023)  
Oil and gas industries including lower carbon energy – Offshore structures – Part 8: Marine soil investigations (ISO 19901-8:2023; EN ISO 19901-8:2023)

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

HRN EN 13757-8:2023 en pr  
Komunikacijski sustavi za mjerila – 8. dio: Razina prilagodbe (EN 13757-8:2023)  
Communication systems for meters – Part 8: Adaptation layer (EN 13757-8:2023)

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

HRN EN 16454:2023 en pr  
Inteligentni transportni sustavi – Elektronička sigurnost – Ispitivanje sukladnosti elektroničkih hitnih poziva iz vozila (EN 16454:2023)  
Intelligent transport systems – ESafety – ECall end to end conformance testing (EN 16454:2023)

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

HRN EN 13232-1:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 1. dio: Definicije (EN 13232-1:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 1: Definitions (EN 13232-1:2023)

HRN EN 13232-2:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 2. dio: Zahtjevi za geometrijsko oblikovanje (EN 13232-2:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 2: Requirements for geometric design (EN 13232-2:2023)

HRN EN 13232-3:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 3. dio: Zahtjevi za uzajamno djelovanje kotača i tračnice (EN 13232-3:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 3: Requirements for wheel/rail interaction (EN 13232-3:2023)

HRN EN 13232-4:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 4. dio: Pokretanje, zaključavanje i kontrola položaja (EN 13232-4:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 4: Actuation, locking and detection (EN 13232-4:2023)

HRN EN 13232-5:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 5. dio: Mijenjalica (EN 13232-5:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 5: Switches (EN 13232-5:2023)

HRN EN 13232-6:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 6. dio: Nepomična obična i dvostruka srca (EN 13232-6:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 6: Fixed common and obtuse crossings (EN 13232-6:2023)

HRN EN 13232-7:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 7. dio: Srca s pomičnim dijelovima (EN 13232-7:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 7: Crossings with moveable parts (EN 13232-7:2023)

HRN EN 13232-8:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 8. dio: Dilatacijske naprave (EN 13232-8:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 8: Expansion devices (EN 13232-8:2023)

HRN EN 13232-9:2023 en pr  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta od Vignoleovih tračnica – 9. dio: Sklapanje (EN 13232-9:2023)  
Railway applications – Track – Switches and crossings for Vignole rails – Part 9: Layouts (EN 13232-9:2023)

HRN EN 15595:2023 en pr  
Željeznički sustav – Kočenje – Zaštita od proklizavanja (EN 15595:2018+A1:2023)  
Railway applications – Braking – Wheel slide protection (EN 15595:2018+A1:2023)

HRN EN 17343:2023 en pr  
Željeznički sustav – Opći nazivi i definicije (EN 17343:2023)  
Railway applications – General terms and definitions (EN 17343:2023)

HRN EN 17636:2023 en pr  
Željeznički sustav – Infrastruktura – Parametri za projektiranje geometrije kolosijeka – Sustavi gradskog i prigradskog tračničkog prijevoza (EN 17636:2023)  
Railway applications – Infrastructure – Track alignment design parameters – Urban rail (EN 17636:2023)

HRN EN 45545-2:2023 en pr  
Željeznički sustav – Zaštita od požara na željezničkim vozilima – 2. dio: Zahtjevi za ponašanje materijala i komponenti u požaru (EN 45545-2:2020+A1:2023)  
Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components (EN 45545-2:2020+A1:2023)

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

HRN EN ISO 60:2023 en pr  
Plastika – Određivanje prividne gustoće materijala koji može istjecati iz označenih lijevaka (ISO 60:2023; EN ISO 60:2023)  
Plastics – Determination of apparent density of material that can be poured from a specified funnel (ISO 60:2023; EN ISO 60:2023)

HRN EN ISO 61:2023 en pr  
Plastika – Određivanje prividne gustoće materijala za prešanje koji ne može istjecati iz označenih lijevaka (ISO 61:2023; EN ISO 61:2023)  
Plastics – Determination of apparent density of moulding material that cannot be poured from a specified funnel (ISO 61:2023; EN ISO 61:2023)

HRN EN ISO 3671:2023 en pr  
Plastika – Aminoplastični materijali za prešanje – Određivanje hlapljivih tvari (ISO 3671:2023; EN ISO 3671:2023)  
Plastics – Aminoplastic moulding materials – Determination of volatile matter (ISO 3671:2023; EN ISO 3671:2023)

HRN EN 12608-2:2023 en pr  
Profili od neomekšanog poli(vinil-klorida) (PVC-U) za izradu prozora i vrata – Razredba, zahtjevi i metode ispitivanja – 2. dio: PVC-U profili prekriveni folijama vezanim adhezivima (EN 12608-2:2023)  
Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors – Classification, requirements and test methods – Part 2: PVC-U profiles covered with foils bonded with adhesives (EN 12608-2:2023)

HRN EN ISO 24187:2023 en pr  
Načela analize mikroplastike prisutne u okolišu (ISO 24187:2023; EN ISO 24187:2023)  
Principles for the analysis of microplastics present in the environment (ISO 24187:2023; EN ISO 24187:2023)

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

HRN EN ISO 11855-1:2021/A1:2023 en pr  
Projektiranje unutrašnjosti zgrada – Ugradbeni sustavi grijanja i hlađenja zračenjem – 1. dio: Definicije, oznake i kriteriji toplinske ugodnosti (ISO 11855-1:2021/Amd 1:2023; EN ISO 11855-1:2021/A1:2023)  
Building environment design – Embedded radiant heating and cooling systems – Part 1: Definitions, symbols, and comfort criteria (ISO 11855-1:2021/Amd 1:2023; EN ISO 11855-1:2021/A1:2023)

## **HZN/TO 543, Poštanske usluge**

HRN EN 17837:2023 en pr  
Poštanske usluge – Ekološki otisak dostave paketa – Metodologija za izračun i deklaraciju emisija stakleničkih plinova i onečišćivača zraka nastalih pružanjem logističke usluge dostave paketa (EN 17837:2023)  
Postal Services – Parcel Delivery Environmental Footprint – Methodology for calculation and declaration of GHG emissions and air pollutants of parcel logistics delivery services (EN 17837:2023)

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

HRN EN 1991-1-4:2012/NA:2012/Ispr.1:2023 en izv  
Eurokod 1: Djelovanja na konstrukcije – Dio 1-4: Opća djelovanja – Djelovanja vjetra – Nacionalni dodatak Eurocode 1: Actions on structures – Part 1-4: General actions – Wind actions – National Annex

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

HRN EN 1405:2023 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Natrijev alginat (EN 1405:2023)  
Chemicals used for treatment of water intended for human consumption – Sodium alginate (EN 1405:2023)

HRN EN 1407:2023 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Anionski i neionski poliakrilamidi (EN 1407:2023)  
Chemicals used for treatment of water intended for human consumption – Anionic and non-ionic polyacrylamides (EN 1407:2023)

HRN EN 1408:2023 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Poli(dialildimetilamonijev klorid) (EN 1408:2023)  
Chemicals used for treatment of water intended for human consumption – Poly(diallyldimethylammonium chloride) (EN 1408:2023)

HRN EN 1409:2023 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Poliamini (EN 1409:2023)  
Chemicals used for water treatment intended for human consumption – Polyamines (EN 1409:2023)

HRN EN 1410:2023 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Kationski poliakrilamidi (EN 1410:2023)  
Chemicals used for treatment of water intended for human consumption – Cationic polyacrylamides (EN 1410:2023)

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

HRN EN ISO 5210:2023 en pr  
Industrijski ventili – Dodaci za višeokretni pogon ventila (ISO 5210:2023; EN ISO 5210:2023)  
Industrial valves – Multi-turn valve actuator attachments (ISO 5210:2023; EN ISO 5210:2023)

HRN EN ISO 5211:2023 en pr  
Industrijski ventili – Dodaci za dijelom okretni pogon ventila (ISO 5211:2023; EN ISO 5211:2023)  
Industrial valves – Part-turn actuator attachments (ISO 5211:2023; EN ISO 5211:2023)

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

HRN EN ISO 1833-4:2023 en pr  
Tekstil – Kvantitativna kemijska analiza – 4. dio: Mješavine određenih proteinskih i određenih drugih vlakana (metoda s uporabom hipoklorita) (ISO 1833-4:2023; EN ISO 1833-4:2023)  
Textiles – Quantitative chemical analysis – Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite) (ISO 1833-4:2023; EN ISO 1833-4:2023)

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

HRN EN ISO 6888-1:2021/A1:2023 en pr  
Mikrobiologija u lancu hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (Staphylococcus aureus i ostale vrste) – 1. dio: Postupak primjene Baird-Parker agara (ISO 6888-1:2021/Amd 1:2023; EN ISO 6888-1:2021/A1:2023)  
Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 1: Method using Baird-Parker agar medium (ISO 6888-1:2021/Amd 1:2023; EN ISO 6888-1:2021/A1:2023)

HRN EN ISO 6888-2:2021/A1:2023 en pr  
Mikrobiologija u lancu hrane – Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (Staphylococcus aureus i ostale vrste) – 2. dio: Postupak primjene agara s fibrinogenom plazme kunića – Amandman 1: Ispravci (ISO 6888-2:2021/Amd 1:2023; EN ISO 6888-2:2021/A1:2023)  
Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 2: Method using rabbit plasma fibrinogen agar medium – Amendment 1: Corrections (ISO 6888-2:2021/Amd 1:2023; EN ISO 6888-2:2021/A1:2023)

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

HRN EN 50341-2-7:2023 en pr  
Nadzemni električni vodovi izmjenične struje iznad 1 kV – Dio 2-7: Nacionalni normativni aspekti (NNA) za Finsku (na temelju EN 50341-1:2012) (EN 50341-2-7:2023)  
Overhead electrical lines exceeding AC 1 kV – Part 2-7: National Normative Aspects (NNA) for FINLAND (based on EN 50341-1:2012) (EN 50341-2-7:2023)

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

HRN EN IEC 60455-2:2023 en pr  
Reaktivne mješavine na bazi smola koje se upotrebljavaju za električnu izolaciju – 2. dio: Metode ispitivanja (IEC 60455-2:2023; EN IEC 60455-2:2023)  
Resin based reactive compounds used for electrical insulation – Part 2: Methods of test (IEC 60455-2:2023; EN IEC 60455-2:2023)

HRN EN IEC 60626-1:2023 en pr  
Kombinirani savitljivi materijali za električne izolacije – 1. dio: Definicije i opći zahtjevi (IEC 60626-1:2023; EN IEC 60626-1:2023)  
Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements (IEC 60626-1:2023; EN IEC 60626-1:2023)

HRN EN IEC 60674-3-3:2023 en pr  
Plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 3. list: Polikarbonatne (PC) folije koje se upotrebljavaju za električnu izolaciju (IEC 60674-3-3:2023; EN IEC 60674-3-3:2023)  
Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 3: Polycarbonate (PC) films used for electrical insulation (IEC 60674-3-3:2023; EN IEC 60674-3-3:2023)

HRN EN IEC 60674-3-7:2023 en pr  
Plastične folije za elektrotehničke svrhe – 3. dio: Specifikacije za pojedinačne materijale – 7. list: Fluoroeten-propilenske folije (FEP) koje se upotrebljavaju za električnu izolaciju (IEC 60674-3-7:2023; EN IEC 60674-3-7:2023)  
Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 7: Fluoroethylene-propylene (FEP) films used for electrical insulation (IEC 60674-3-7:2023; EN IEC 60674-3-7:2023)

## HZN/TO E17, Sklopni i upravljački uređaji

HRN EN IEC 61439-5:2023 en pr  
Niskonaponski sklopni blokovi – 5. dio: Blokovi za distribuciju u javnim mrežama (IEC 61439-5:2023; EN IEC 61439-5:2023)  
Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks (IEC 61439-5:2023; EN IEC 61439-5:2023)

HRN EN IEC 61439-7:2023 en pr  
Niskonaponski sklopni blokovi – 7. dio: Blokovi za posebne primjene, kao što su marine, kampovi, tržnice i postaje za punjenje električnih vozila (IEC 61439-7:2022; EN IEC 61439-7:2023)  
Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations (IEC 61439-7:2022; EN IEC 61439-7:2023)

HRN EN IEC 62208:2023 en pr  
Prazna kućišta za niskonaponske sklopne blokove – Opći zahtjevi (IEC 62208:2023; EN IEC 62208:2023)  
Empty enclosures for low-voltage switchgear and controlgear assemblies – General requirements (IEC 62208:2023; EN IEC 62208:2023)

HRN EN IEC 62271-202:2022/Ispr.1:2023 en pr  
Visokonaponska sklopna aparatura – 202. dio: Izmjenične tvornički dogotovljene transformatorske stanice za nazivne napone iznad 1 kV do uključivo 52 kV (IEC 62271-202:2022/Corr.1:2023; EN IEC 62271-202:2022/AC:2023)  
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/Corr.1:2023; EN IEC 62271-202:2022/AC:2023)

## HZN/TO E22, Energetska elektronika

HRN EN 62751-2:2015/A2:2023 en pr  
Gubici u ventilima pretvarača s naponskim ulazom (VSC) za visokonaponske sustave istosmjernje struje (HVDC) – 2. dio: Modularni višerazinski pretvarači (IEC 62751-2:2014/am2:2023; EN 62751-2:2014/A2:2023)  
Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems – Part 2: Modular multilevel converters (IEC 62751-2:2014/am2:2023; EN 62751-2:2014/A2:2023)

## HZN/TO E23, Električni instalacijski pribor

HRN EN 60670-21:2007/A11:2023 en pr  
Kutije i kućišta za električni pribor za kućanstvo i slične fiskne električne instalacije – 21. dio: Posebni zahtjevi za kutije i kućišta s izvedbom za ovisna sredstva (EN 60670-21:2007/A11:2023)  
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means (EN 60670-21:2007/A11:2023)

HRN EN 60670-21:2007/A1:2023 en pr  
Kutije i kućišta za električni pribor za kućanstvo i slične fiskne električne instalacije – 21. dio: Posebni zahtjevi za kutije i kućišta s izvedbom za ovisna sredstva (IEC 60670-21:2004/am1:2016; EN 60670-21:2007/A1:2023)  
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means (IEC 60670-21:2004/am1:2016; EN 60670-21:2007/A1:2023)

## HZN/TO E31, Eksplozivne atmosfere

HRN EN 50724:2023 en pr  
Fiksni ultrazvučni detektori propuštanja plina (UGLD) – Opći zahtjevi i metode ispitivanja (EN 50724:2023)  
Fixed Ultrasonic Gas Leak Detectors (UGLD) – General requirements and test methods (EN 50724:2023)

## HZN/TO E36, Izolatori

HRN EN IEC 61462:2023 en pr  
Kompozitni šuplji izolatori – Izolatori pod tlakom i bez tlaka za uporabu u električnoj opremi izmjeničnog nazivnog napona većeg od 1 000 V i istosmjernog napona većeg od 1 500 V – Definicije, metode ispitivanja, kriteriji prihvaćanja i preporuke za konstrukciju (IEC 61462:2023; EN IEC 61462:2023)  
Composite hollow insulators – Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1 000 V AC and D.C. voltage greater than 1500 V – Definitions, test methods, acceptance criteria and design recommendations (IEC 61462:2023; EN IEC 61462:2023)

## HZN/TO E55, Žice za namote

HRN EN IEC 60317-89:2023 en pr  
Specifikacije pojedinih vrsta žica za namote – 89. dio: Okrugla aluminijaska žica lakirana poliestermidom, razreda 200 (IEC 60317-89:2023; EN IEC 60317-89:2023)  
Specifications for particular types of winding wires – Part 89: Polyesterimide enameled round aluminum wire, class 200 (IEC 60317-89:2023; EN IEC 60317-89:2023)

HRN EN IEC 60317-93:2023 en pr  
Specifikacije pojedinih vrsta žica za namote – 93. dio: Poliamid-imidom lakirana profilna bakrena žica, prekrivena poliestrom ili poliestermidom, razreda 220 (IEC 60317-93:2023; EN IEC 60317-93:2023)  
Specifications for particular types of winding wires – Part 93: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular copper wire, class 220 (IEC 60317-93:2023; EN IEC 60317-93:2023)

HRN EN IEC 60851-3:2023 en pr  
Žice za namote – Metode ispitivanja – 3. dio: Mehanička svojstva (IEC 60851-3:2023; EN IEC 60851-3:2023)  
Winding wires – Test methods – Part 3: Mechanical properties (IEC 60851-3:2023; EN IEC 60851-3:2023)

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

HRN EN 60870-5-104:2009/A1:2016/Ispr.1:2023 en pr  
Sustavi i oprema daljinskog upravljanja – Dio 5-104: Prijenosni protokoli – Pristup mreži za IEC 60870-5-101 korištenjem standardnih opisa prijenosa (IEC 60870-5-104:2006/am1:2016/Corr.1:2023; EN 60870-5-104:2006/A1:2016/AC:2023)  
Telecontrol equipment and systems – Part 5-104: Transmission protocols – Network access for IEC 60870-5-101 using standard transport profiles (IEC 60870-5-104:2006/am1:2016/Corr.1:2023; EN 60870-5-104:2006/A1:2016/AC:2023)

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

HRN EN IEC 60601-2-76:2019/A1:2023 en pr  
Medicinska električna oprema – Dio 2-76: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke opreme za hemostazu niskoenergetskim ioniziranim plinom (IEC 60601-2-76:2018/am1:2023; EN IEC 60601-2-76:2019/A1:2023)  
Medical electrical equipment – Part 2-76: Particular requirements for the basic safety and essential performance of low energy ionized gas haemostasis equipment (IEC 60601-2-76:2018/am1:2023; EN IEC 60601-2-76:2019/A1:2023)

HRN EN IEC 62220-2-1:2023 en pr  
Medicinska električna oprema – Značajke digitaliziranih rendgenskih uređaja – Dio 2-1: Određivanje učinkovitosti suptrakcije dvostruke energije – Detektori za uporabu pri radiografskom snimanju dvostrukom energijom (IEC 62220-2-1:2023; EN IEC 62220-2-1:2023)  
Medical electrical equipment – Characteristics of digital X-ray imaging devices – Part 2-1: Determination of dual-energy subtraction efficiency – Detectors used for dual-energy radiographic imaging (IEC 62220-2-1:2023; EN IEC 62220-2-1:2023)

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

HRN HD 60364-7-716:2023 en pr  
Niskonaponske električne instalacije – Dio 7-716: Zahtjevi za posebne instalacije ili prostore – Distribucija snage vrlo niskim istosmjernim naponom preko kabelaške infrastrukture informacijske i komunikacijske tehnologije (IEC 60364-7-716:2023; HD 60364-7-716:2023)  
Low-voltage electrical installations – Part 7-716: Requirements for special installations or locations – ELV DC power distribution over information and communications technology (ICT) cable infrastructure (IEC 60364-7-716:2023; HD 60364-7-716:2023)

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

HRN EN IEC 63376:2023 en pr  
Sustav za upravljanje energijom u industrijskim postrojenjima – Funkcije i tokovi informacija (IEC 63376:2023; EN IEC 63376:2023)  
Industrial facility energy management system (FEMS) – Functions and information flows (IEC 63376:2023; EN IEC 63376:2023)

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

HRN EN IEC 61557-7:2022/A1:2023 en pr  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor mjera zaštite – 7. dio: Redoslijed faza (IEC 61557-7:2019/am1:2023; EN IEC 61557-7:2022/A1:2023)  
Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 7: Phase sequence (IEC 61557-7:2019/am1:2023; EN IEC 61557-7:2022/A1:2023)

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

HRN EN 319 412-1 V1.5.1:2023 en pr  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 1. dio: Pregled i struktura zajedničkih podataka (EN 319 412-1 V1.5.1:2023)  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 1: Overview and common data structures (EN 319 412-1 V1.5.1:2023)

HRN EN 319 412-2 V2.3.1:2023 en pr  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 2. dio: Profil certifikata za certifikate koji se izdaju fizičkim osobama (EN 319 412-2 V2.3.1:2023)  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 2: Certificate profile for certificates issued to natural persons (EN 319 412-2 V2.3.1:2023)

HRN EN 319 412-3 V1.3.1:2023 en pr  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 3. dio: Profil certifikata za certifikate koji se izdaju pravnim osobama (EN 319 412-3 V1.3.1:2023)  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 3: Certificate profile for certificates issued to legal persons (EN 319 412-3 V1.3.1:2023)

HRN EN 319 412-4 V1.3.1:2023 en pr  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 4. dio: Profil certifikata za internetske certifikate (EN 319 412-4 V1.3.1:2023)  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 4: Certificate profile for web site certificates (EN 319 412-4 V1.3.1:2023)

HRN EN 319 412-5 V2.4.1:2023 en pr  
Elektronički potpisi i infrastrukture (ESI) – Profili certifikata – 5. dio: QC izjave (EN 319 412-5 V2.4.1:2023)  
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 5: QC Statements (EN 319 412-5 V2.4.1:2023)

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

HRN EN ISO/IEC 2382-37:2023 en pr  
Informacijska tehnologija – Rječnik – 37. dio: Biometrija (ISO/IEC 2382-37:2022; EN ISO/IEC 2382-37:2023)  
Information technology – Vocabulary – Part 37: Biometrics (ISO/IEC 2382-37:2022; EN ISO/IEC 2382-37:2023)

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

HRN EN 17531:2023 en pr  
Izještavanje za potrebe nadzora nad on-line uslugama igara na sreću koji provode tijela država članica za nadzor nad igrama na sreću (EN 17531:2021+A1:2023)  
Reporting in support of supervision of online gambling services by the gambling regulatory authorities of the Member States (EN 17531:2021+A1:2023)

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

HRN EN ISO 10991:2023 en pr  
Mikrofluidika – Rječnik (ISO 10991:2023; EN ISO 10991:2023)  
Microfluidics – Vocabulary (ISO 10991:2023; EN ISO 10991:2023)

HRN EN ISO 23783-1:2023 en pr  
Automatizirani sustavi za rukovanje tekućinom – 1. dio: Rječnik i opći zahtjevi (ISO 23783-1:2022; EN ISO 23783-1:2023)  
Automated liquid handling systems – Part 1: Vocabulary and general requirements (ISO 23783-1:2022; EN ISO 23783-1:2023)

HRN EN ISO 23783-2:2023 en pr  
Automatizirani sustavi za rukovanje tekućinom – 2. dio: Postupci mjerenja za određivanje volumetrijske performanse (ISO 23783-2:2022; EN ISO 23783-2:2023)  
Automated liquid handling systems – Part 2: Measurement procedures for the determination of volumetric performance (ISO 23783-2:2022; EN ISO 23783-2:2023)

HRN EN ISO 23783-3:2023 en pr  
Automatizirani sustavi za rukovanje tekućinom – 3. dio: Određivanje, specifikacija i izvješćivanje o volumetrijskoj performansi (ISO 23783-3:2022; EN ISO 23783-3:2023)  
Automated liquid handling systems – Part 3: Determination, specification and reporting of volumetric performance (ISO 23783-3:2022; EN ISO 23783-3:2023)

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

HRN EN 1300:2023 en pr  
Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje (EN 1300:2023)  
Secure storage units – Classification for high security locks according to their resistance to unauthorized opening (EN 1300:2023)

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

HRN EN 13726:2023 en pr  
Metode ispitivanja za zavoje za rane – Aspekti upijanja, propuštanja vodene pare, vodonepropusnosti i rastezljivosti (EN 13726:2023)  
Test methods for wound dressings – Aspects of absorption, moisture vapour transmission, waterproofness and extensibility (EN 13726:2023)

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

HRN EN 2302:2023 en pr  
Zrakoplovstvo – Legura na bazi nikla otporna na toplinu NiCr20Co3Fe3 – Rm ≥ 650 MPa – Limovi i trake, hladno valjani – 0,25 mm < a ≤ 3 mm (EN 2302:2023)  
Aerospace series – Heat resisting nickel base alloy NiCr20Co3Fe3 – Rm ≥ 650 MPa – Sheets and strips, cold rolled – 0,25 mm < a ≤ 3 mm (EN 2302:2023)

HRN EN 3628:2023 en pr  
Zrakoplovstvo – Žičani osigurač od vučene žice – Čelik otporan na koroziju (EN 3628:2023)  
Aerospace series – Lockwire, drawn – Corrosion resisting steel (EN 3628:2023)



HRN EN 3660-003:2023 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 003: Uvodna matica, tip A – Norma za proizvod (EN 3660-003:2023)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 003: Grommet nut, style A – Product standard (EN 3660-003:2023)

HRN EN 3660-004:2023 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 004: Kabelski izlaz, tip A, ravni, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-004:2023)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief – Product standard (EN 3660-004:2023)

HRN EN 3660-005:2023 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 005: Kabelski izlaz, tip A, 90°, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-005:2023)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief – Product standard (EN 3660-005:2023)

HRN EN 4842:2023 en pr  
Zrakoplovstvo – Čelik X5CrNiCu15-5 (1.4545) – Pretopljen s topljivom elektrodom (ESR ili VAR) – Obraden otopinom i precipitatom (H1025) – Šipke za strojnu obradu – a ili D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Vrhunska kvaliteta (pq) (EN 4842:2023)  
Aerospace series – Steel X5CrNiCu15-5 (1.4545) – Consumable electrode remelted (ESR or VAR) – Solution treated and precipitation treated (H1025) – Bars for machining – a or D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Premium quality (pq) (EN 4842:2023)

## HZN/TU U1, Opća elektrotehnika 1

HRN EN IEC 60068-2-14:2023 en pr  
Ispitivanje utjecaja okoliša – Dio 2-14: Ispitivanja – N ispitivanje: Promjena temperature (IEC 60068-2-14:2023; EN IEC 60068-2-14:2023)  
Environmental testing – Part 2-14: Tests – Test N: Change of temperature (IEC 60068-2-14:2023; EN IEC 60068-2-14:2023)

HRN EN IEC 60068-2-17:2023 en pr  
Ispitivanje utjecaja okoliša – Dio 2-17: Ispitivanja – Q ispitivanje: Brtvljenje (IEC 60068-2-17:2023; EN IEC 60068-2-17:2023)  
Environmental testing – Part 2-17: Tests – Test Q: Sealing (IEC 60068-2-17:2023; EN IEC 60068-2-17:2023)

HRN EN IEC 60068-3-1:2023 en pr  
Ispitivanje utjecaja okoliša – Dio 3-1: Popratna dokumentacija i upute – Ispitivanje hladnoćom i suhom toplinom (IEC 60068-3-1:2023; EN IEC 60068-3-1:2023)  
Environmental testing – Part 3-1: Supporting documentation and guidance – Cold and dry heat tests (IEC 60068-3-1:2023; EN IEC 60068-3-1:2023)

HRN EN IEC 60068-3-4:2023 en pr  
Ispitivanje utjecaja okoliša – Dio 3-4: Popratna dokumentacija i upute – Ispitivanja topline s vlagom (IEC 60068-3-4:2023; EN IEC 60068-3-4:2023)  
Environmental testing – Part 3-4: Supporting documentation and guidance – Damp heat tests (IEC 60068-3-4:2023; EN IEC 60068-3-4:2023)

## HZN/TU V1, Elektronika 1

HRN EN IEC 60393-3:2023 en pr  
Potenciometri za uporabu u elektroničkoj opremi – 3. dio: Sekcijska specifikacija: Rotacijski precizni potenciometri (IEC 60393-3:2023; EN IEC 60393-3:2023)  
Potentiometers for use in electronic equipment – Part 3: Sectional specification: Rotary precision potentiometers (IEC 60393-3:2023; EN IEC 60393-3:2023)

HRN EN 60939-2:2008/A1:2023 en pr  
Pasivni filtri za gušenje elektromagnetskih smetnji – 2. dio: Sekcijska specifikacija – Pasivni filtri za koje su potrebna odgovarajuća sigurnosna ispitivanja – Metode ispitivanja i opći zahtjevi (IEC 60939-2:2005/am1:2023; EN 60939-2:2005/A1:2023)  
Passive filter units for electromagnetic interference suppression – Part 2: Sectional specification – Passive filter units for which safety tests are appropriate – Test methods and general requirements (IEC 60939-2:2005/am1:2023; EN 60939-2:2005/A1:2023)

HRN EN IEC 61189-2-804:2023 en pr  
Metode ispitivanja za električne materijale, tiskane pločice i druge strukture i sklopove za međusobno povezivanje – Dio 2-804: Metode ispitivanja vremena do delaminacije – T260, T288, T300 (IEC 61189-2-804:2023; EN IEC 61189-2-804:2023)  
Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 2-804: Test methods for time to delamination – T260, T288, T300 (IEC 61189-2-804:2023; EN IEC 61189-2-804:2023)

HRN EN IEC 61300-2-38:2023 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Osnovni postupci ispitivanja i mjerenja – Dio 2-38: Ispitivanja – Brtvljenje svjetlovodnih zapečaćenih spojnica i ojačanih konektora pomoću komprimiranog zraka (IEC 61300-2-38:2023; EN IEC 61300-2-38:2023)  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-38: Tests – Sealing for fibre optic sealed closures and hardened connectors using air pressure (IEC 61300-2-38:2023; EN IEC 61300-2-38:2023)

HRN EN IEC 61757-1-2:2023 en pr  
Svjetlovodni senzori – Dio 1-2: Mjerenje naprezanja – Distribuirano očitavanje temeljeno na Brillouinovom raspršenju (IEC 61757-1-2:2023; EN IEC 61757-1-2:2023)  
Fibre optic sensors – Part 1-2: Strain measurement – Distributed sensing based on Brillouin scattering (IEC 61757-1-2:2023; EN IEC 61757-1-2:2023)

HRN EN IEC 62788-2-1:2023 en pr  
Postupci mjerenja za materijale koji se koriste u fotonaponskim modulima – Dio 2-1: Polimerni materijali – Prednja i stražnja strana – Sigurnosni zahtjevi (IEC 62788-2-1:2023; EN IEC 62788-2-1:2023)  
Measurement procedures for materials used in photovoltaic modules – Part 2-1: Polymeric materials – Frontsheet and backsheet – Safety requirements (IEC 62788-2-1:2023; EN IEC 62788-2-1:2023)

## HZN/TU W1, Energetska elektrotehnika 1

HRN EN 50194-1:2023 en pr  
Električna oprema za otkrivanje zapaljivih plinova u kućanskim prostorima – 1. dio: Metode ispitivanja i izvedbeni zahtjevi (EN 50194-1:2023)  
Electrical apparatus for the detection of flammable gases in household premises – Part 1: Test methods and performance requirements (EN 50194-1:2023)

HRN EN 60269-6:2013/A1:2023 en pr  
Niskonaponski osigurači – 6. dio: Dodatni zahtjevi za rastalne uloške za zaštitu solarnih fotonaponskih energetske sustava (IEC 60269-6:2010/am1:2021; EN 60269-6:2011/A1:2023)  
Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems (IEC 60269-6:2010/am1:2021; EN 60269-6:2011/A1:2023)

## 1.2 Nacrti hrvatskih norma

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

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

### HZN/TO 71, *Beton*

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

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

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

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

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

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

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

## 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 5, *Metalne cijevi i priključci*

prEN 15266 en  
Stainless steel pliable corrugated tubing kits for gas installation pipework with an operating pressure up to 0,2 MPa (2 bar)  
Kompleti savitljivih valovitih cijevi od nehrđajućeg čelika za plinske instalacije radnog tlaka do 0,2 MPa (2 bar)

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

prEN 16942 en  
Fuels – Identification of vehicle compatibility – Graphical expression for consumer information  
Goriva – Identifikacija kompatibilnosti vozila – Grafički prikaz informacija za potrošače

prEN 18015 en  
Automotive fuels – Determination of hydrocarbon group types and select hydrocarbon and oxygenate compounds – Gas chromatography with vacuum ultraviolet absorption spectroscopy (GC-VUV) method

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

prEN ISO 20122 en  
Vegetable oils – Determination of mineral oil saturated hydrocarbons (MOSH) and aromatic hydrocarbons (MOAH) with online coupled HPLC-GC-FID analysis – Method for low limit of quantification (ISO/DIS 20122:2023)  
Biljna ulja – Određivanje zasićenih ugljikovodika iz mineralnih ulja (MOSH) i aromatskih ugljikovodika iz mineralnih ulja (MOAH) analizom na vezanom sustavu HPLC-GC-FID (on-line) – Metoda za nisku granicu kvantifikacije (ISO/DIS 20122:2023)

prEN ISO 23662 en  
Definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims (ISO 23662:2021)

### HZN/TO 37, *Terminologija*

ISO 704:2022 en  
Terminology work – Principles and methods  
Terminološki rad – Načela i metode

ISO 12199:2022 en  
Alphabetical ordering of multilingual terminological and lexicographical data represented in the Latin alphabet  
Abecedni redoslijed višejezičnih terminoloških i leksikografskih podataka prikazanih latiničnom abecedom

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

prEN ISO 9692-2 en  
Welding and allied processes – Joint preparation – Part 2: Submerged arc welding of steels (ISO/FDIS 9692-2:2023)  
Zavarivanje i srodni procesi – Priprema spoja – 2. dio: Zavarivanje čelika pod praškom (ISO/FDIS 9692-2:2023)

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

ISO 2789:2022 en  
Information and documentation – International library statistics  
Informacije i dokumentacija – Međunarodna knjižnična statistika

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

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

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

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

ISO 3951-1:2022 en  
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  
Postupci uzorkovanja pri pregledima prema varijablama – 1. dio: Specifikacije planova jednostrukih uzorkovanja razvrstanih u odnosu na prihvatljivu razinu kvalitete („AQL“) za preglede pojedinačnih partija za jednu značajku kvalitete i jedan „AQL“

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

### **HZN/TO 92, *Zaštita od požara***

prEN 13501-3 en  
Fire classification of construction products and building elements – Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ventilation ducts and fire dampers and/or power, control and communication cables  
Razredba građevnih proizvoda i građevnih elemenata prema ponašanju u požaru – 3. dio: Razredba prema rezultatima ispitivanja otpornosti na požar proizvoda i elemenata upotrijebljenih u servisnim instalacijama zgrade: vatrootpornih ventilacijskih kanala i požarnih zatvarača i/ili energetskih, upravljačkih i komunikacijskih kabela

### **HZN/TO 120, *Koža i obuća***

prEN ISO 17234-1 en  
Leather – Chemical tests for the determination of certain azo colourants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colourants (ISO/DIS 17234-1:2023)  
Koža – Kemijska ispitivanja za određivanje određenih azobojila u obojenoj koži – 1. dio: Određivanje određenih aromatskih amina dobivenih iz azobojila (ISO/DIS 17234-1:2023)

prEN ISO 20686 en  
Footwear – Critical substances potentially present in footwear and footwear components – Determination of certain organic solvents (ISO/DIS 20686:2023)

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

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

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

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

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

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

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

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

prEN 1482-1 en  
Fertilizers, liming materials and inhibitors – Sampling and sample preparation – Part 1: General sampling provisions  
Gnojiva, tvari za kalcifikaciju i inhibitori – Uzorkovanje i priprema uzoraka – 1. dio: Opće upute o uzorkovanju

prEN 1482-2 en  
Fertilizers, liming materials and inhibitors – Sampling and sample preparation – Part 2: General sample preparation provisions  
Gnojiva, tvari za kalcifikaciju i inhibitori – Uzorkovanje i priprema uzoraka – 2. dio: Opće upute o pripremi uzoraka

prEN 1482-3 en  
Fertilizers, liming materials and inhibitors – Sampling and sample preparation – Part 3: Sampling of static heaps  
Gnojiva, tvari za kalcifikaciju i inhibitori – Uzorkovanje i priprema uzoraka – 3. dio: Uzorkovanje iz statične hrpe proizvoda

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

prEN 17990 en  
Thermal insulation and energy economy in buildings – Method to determine the durability of bondings with adhesive tapes and adhesive masses for the establishment of airtight layers under climatic conditions representative for indoor environments  
Toplinska izolacija i gospodarenje energijom u zgradama – Metoda za određivanje trajnosti spojeva s ljepljivim trakama i ljepljivim masama za postizanje zrakonepropusnih slojeva u klimatskim uvjetima karakterističnim za unutrašnje prostore

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

prEN ISO 14889 en  
Ophthalmic optics – Spectacle lenses – Fundamental requirements for uncut finished lenses (ISO/DIS 14889:2023)  
Oftalmološka optika – Leće za naočale – Osnovni zahtjevi za neoblikovane gotove leće (ISO/DIS 14889:2023)

prEN ISO 15004-2 en  
Ophthalmic instruments – Fundamental requirements and test methods – Part 2: Light hazard protection (ISO/DIS 15004-2:2023)  
Oftalmološki instrumenti – Osnovni zahtjevi i metode ispitivanja – 2. dio: Zaštita od opasnosti od svjetla (ISO/DIS 15004-2:2023)

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

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

prEN 12790-1 en  
Child care articles – Reclined cradles and infant swings – Part 1: Reclined cradles and infant swings for children up to when they start to try to sit up

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

prEN ISO 19103 en  
Geographic information – Conceptual schema language (ISO/DIS 19103:2023)  
Geoinformacije – Jezik konceptualne sheme (ISO/DIS 19103:2023)

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

prEN ISO 21549-7 en  
Health informatics – Patient healthcard data – Part 7: Medication data (ISO/FDIS 21549-7:2023)  
Medicinska informatika – Podaci na zdravstvenoj kartici bolesnika – 7. dio: Podaci o propisanim lijekovima (ISO/FDIS 21549-7:2023)

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

prEN 118 en  
Wood preservatives – Determination of preventive action against Reticulitermes species (European termites) (Laboratory method)  
Sredstva za zaštitu drva – Određivanje preventivnog djelovanja protiv Reticulitermes vrsta (Europskih termita) (laboratorijska metoda)

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

prEN ISO 12957-2 en  
Geosynthetics – Determination of friction characteristics – Part 2: Inclined plane test (ISO/DIS 12957-2:2023)  
Geosintetici – Određivanje značajka trenja – 2. dio: Ispitivanje na nagutoj ravnini (ISO/DIS 12957-2:2023)

## **HZN/TO 502, Plinski uređaji**

prEN 12309-2 en  
Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW – Part 2: Safety  
Plinski sorpcijski uređaji za grijanje i/ili hlađenje s nazivnim toplinskim opterećenjem do 70 kW – 2. dio: Sigurnost

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

prEN ISO 16701 en  
Corrosion of metals and alloys – Corrosion in artificial atmosphere – Accelerated corrosion test involving exposure under controlled conditions of humidity cycling and intermittent spraying of a salt solution (ISO/DIS 16701:2023)  
Korozija metala i legura – Korozija u umjetnoj atmosferi – Ispitivanje ubrzane korozije u kontroliranim uvjetima koje uključuje izlaganje ciklički promjenjivoj vlažnosti i povremeno prskanje slanom otopinom (ISO/DIS 16701:2023)

prEN ISO 16784-1 en  
Corrosion of metals and alloys – Corrosion and fouling in industrial cooling water systems – Part 1: Guidelines for conducting pilot-scale evaluation of corrosion and fouling control additives for open recirculating cooling water systems (ISO/DIS 16784-1:2023)  
Korozija metala i legura – Korozija i obraštanje u industrijskim vodenim rashladnim sustavima – 1. dio: Smjernice za provođenje vrednovanja dodatka za kontrolu korozije i obraštanja u pilot postrojenjima, za otvorene reciklirajuće vodene rashladne sustave (ISO/DIS 16784-1:2023)

prEN ISO 16784-2 en  
Corrosion of metals and alloys – Corrosion and fouling in industrial cooling water systems – Part 2: Evaluation of the performance of cooling water treatment programmes using a pilot-scale test rig (ISO/DIS 16784-2:2023)  
Korozija metala i legura – Korozija i obraštanje u industrijskim vodenim rashladnim sustavima – 2. dio: Vrednovanje učinkovitosti programa za obradu rashladnih voda primjenom pilot ispitnih postrojenja (ISO/DIS 16784-2:2023)

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

prEN ISO 10426-5 en  
Oil and gas industries including lower carbon energy – Cements and materials for well cementing – Part 5: Determination of shrinkage and expansion of well cement formulations (ISO/DIS 10426-5:2023)  
Industrije nafte i plina uključujući energiju s niskim udjelom ugljika – Cementi i materijali za cementaciju bušotina – 5. dio: Određivanje stezanja i širenja bušotinskih cementnih pripravaka (ISO/DIS 10426-5:2023)

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

prEN 12966 en  
Road vertical signs – Variable message traffic signs  
Vertikalna prometna signalizacija – Promjenjivi prometni znakovi

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

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

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

## **HZN/TO 521, Usluge održavanja**

prEN 15221-8 en  
Facility Management – Part 8: Principles and processes  
Upravljanje objektima (Facility management) – 8. dio: Načela i procesi

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

EN 17530:2022/prA1 en  
Railway applications – Interior glazing for rail vehicles  
Željeznički sustav – Ostakljivanje unutrašnjosti za željeznička vozila

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

prEN 12697-2 en  
Bituminous mixtures – Test methods – Part 2: Determination of particle size distribution  
Bitumenske mješavine – Metode ispitivanja – 2. dio: Određivanje granulometrijskog sastava

prEN 12697-16 en  
Bituminous mixtures – Test methods – Part 16: Abrasion by studded tyres  
Bitumenske mješavine – Metode ispitivanja – 16. dio: Abrazija uporabom guma s čavlima

prEN 12697-35 en  
Bituminous mixtures – Test methods – Part 35: Laboratory mixing  
Bitumenske mješavine – Metode ispitivanja – 35. dio: Laboratorijsko miješanje

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

prEN 18001 en  
Curtain walling – Environmental Product Declarations – Product category rules for curtain walling  
Ovješene fasade – Izjave o utjecaju proizvoda na okoliš – Pravila za kategorizaciju proizvoda za ovješene fasade

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

prEN ISO 6284 en  
Technical product documentation – Construction documentation – Indication of limit deviations (ISO 6284:2023)

prEN ISO 24096-1 en  
Technical product documentation (TPD) – Classification of requirements – Part 1: Framework (ISO/DIS 24096-1:2023)

prEN ISO 24096-2 en  
Technical product documentation (TPD) – Classification of requirements – Part 2: Classification based on severity and susceptibility (ISO/DIS 24096-2:2023)

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

- prEN ISO 16484-2 en  
Building automation and control systems (BACS) – Part 2: Hardware (ISO/DIS 16484-2:2023)  
Sustavi automatizacije i upravljanja u zgradama (BACS) – 2. dio: Oprema za kontrolni sustav (ISO/DIS 16484-2:2023)

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

- prEN 1991-1-7 en  
Eurocode 1 – Actions on structures – Part 1-7: Accidental actions  
Eurokod 1: Djelovanja na konstrukcije – Dio 1-7: Izvanredna djelovanja
- prEN 1993-1-14 en  
Eurocode 3 – Design of steel structures – Part 1-14: Design assisted by finite element analysis
- prEN 1993-5 en  
Eurocode 3 – Design of steel structures – Part 5: Piling  
Eurokod 3 – Projektiranje čeličnih konstrukcija – 5. dio: Piloti i žmurje
- prEN 1995-1-1 en  
Eurocode 5 – Design of timber structures – Part 1-1: General rules and rules for buildings
- prEN 1995-1-2 en  
Eurocode 5 – Design of timber structures – Part 1-2: Structural fire design  
Eurokod 5: Projektiranje drvenih konstrukcija – Dio 1-2: Proračun konstrukcija na djelovanje požara
- prEN 1995-2 en  
Eurocode 5 – Design of timber structures – Part 2: Bridges  
Eurokod 5 – Projektiranje drvenih konstrukcija – 2. dio: Mostovi
- prEN 1995-3 en  
Eurocode 5 – Design of timber structures – Part 3: Execution
- prEN 1998-1-2 en  
Eurocode 8 – Design of structures for earthquake resistance – Part 1-2: Buildings
- prEN 1998-3 en  
Eurocode 8 – Design of structures for earthquake resistance – Part 3: Assessment and retrofitting of buildings and bridges
- prEN 1998-4 en  
Eurocode 8 – Design of structures for earthquake resistance – Part 4: Silos, tanks, pipelines, towers, masts and chimneys

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

- prEN 12464-2 en  
Light and lighting – Lighting of work places – Part 2: Outdoor work places  
Svjetlo i rasvjeta – Rasvjeta radnih mjesta – 2. dio: Vanjski radni prostori

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

- ISO 6707-2:2017 en  
Buildings and civil engineering works – Vocabulary – Part 2: Contract and communication terms  
Zgrade i inženjerske građevine – Terminološki rječnik – 2. dio: Nazivi koji se odnose na ugovaranje i komunikaciju
- ISO 11527:2018 en  
Buildings and civil engineering works – Sealants – Test method for the determination of stringiness  
Zgrade i inženjerske građevine – Brtvila – Metoda ispitivanja za određivanje ljepljivosti
- ISO 15686-5:2017 en  
Buildings and constructed assets – Service life planning – Part 5: Life-cycle costing  
Građevine – Planiranje uporabnog vijeka – 5. dio: Trošak životnog ciklusa

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

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

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

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

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

## **HZN/TO 569, Hrana za životinje**

- ISO 5984:2022 en  
Animal feeding stuffs – Determination of crude ash  
Hrana za životinje – Određivanje sirovog pepela

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

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

- prEN ISO 56001 en  
Innovation management – Innovation management system – Requirements (ISO/DIS 56001:2023)

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

- prEN 50388-2 en  
Fixed Installations and Rolling Stock for Railway Applications – Technical criteria for the coordination between electric traction power supply systems and rolling stock to achieve interoperability – Part 2: Stability and Harmonics

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

- prEN IEC 61039:2023 en  
Classification of insulating liquids (IEC 61039 ED3)  
Klasifikacija izolacijskih tekućina (IEC 61039 ED3)

- prEN IEC 61203:2023 en  
Synthetic esters – Guidelines for maintenance and use in electrical equipment (IEC 61203 ED2)  
Sintetski esteri – Smjernice za održavanje i korištenje u električnoj opremi (IEC 61203 ED2)

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

- EN IEC 60079-0:2018/prAA:2023 en  
Explosive atmospheres – Part 0: Equipment – General requirements  
Eksplozivne atmosfere – 0. dio: Oprema – Opći zahtjevi

- EN 60079-1:2014/prAA:2023 en  
Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”  
Eksplozivne atmosfere – 1. dio: Vrsta zaštite opreme oklapanje “d”

EN 60079-7:2015/prAA:2023 en  
Explosive atmospheres – Part 7: Equipment protection by increased safety “e”  
Eksplozivne atmosfere – 7. dio: Vrsta zaštite opreme povećana sigurnost “e”

EN 60079-28:2015/prAA:2023 en  
Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation  
Eksplozivne atmosfere – 28. dio: Zaštita opreme i prijenosnih sustava s optičkim zračenjem

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

EN 61184:2017/prA2:2023 en  
Bayonet lampholders (IEC 61184/am2 ED4)  
Bajunetna grla za žarulje (IEC 61184/am2 ED4)

prEN IEC 61347-2-1:2023 en  
Controlgear for electric light sources – Safety – Part 2-1: Particular requirements for starting devices (other than glow starters) (IEC 61347-2-1 ED2)

prEN IEC 61347-2-10:2023 en  
Controlgear for electric light sources – Safety – Part 2-10: Particular requirements for electronic controlgear for high-frequency operation of cold start tubular discharge lamps (neon tubes) (IEC 61347-2-10 ED2)

prEN IEC 61347-2-12:2023 en  
Controlgear for electric light sources – Safety – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic controlgear for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-12 ED2)

prEN IEC 61347-2-3:2023 en  
Controlgear for electric light sources – Safety – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps (IEC 61347-2-3 ED3)

prEN IEC 61347-2-8:2023 en  
Controlgear for electric light sources – Safety – Part 2-8: Particular requirements for ballasts for fluorescent lamps (IEC 61347-2-8 ED2)

EN IEC 62868-1:2021/prA1:2023 en  
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 1: General requirements and tests (IEC 62868-1/am1 ED1)  
Izvori svjetla od organskih svjetlećih dioda (OLED) za opću rasvjetu – Sigurnost – 1. dio: Opći zahtjevi i ispitivanja (IEC 62868-1/am1 ED1)

EN IEC 62868-2-1:2021/prA1:2023 en  
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 2-1: Particular requirements – Semi-integrated OLED modules (IEC 62868-2-1/am1 ED1)  
Izvori svjetla od organskih svjetlećih dioda (OLED) za opću rasvjetu – Sigurnost – Dio 2-1: Posebni zahtjevi – Poluintegrirani OLED moduli (IEC 62868-2-1/am1 ED1)

EN IEC 62868-2-2:2021/prA1:2023 en  
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 2-2: Particular requirements – Integrated OLED modules (IEC 62868-2-2/am1 ED1)  
Izvori svjetla od organskih svjetlećih dioda (OLED) za opću rasvjetu – Sigurnost – Dio 2-2: Posebni zahtjevi – Integrirani OLED moduli (IEC 62868-2-2/am1 ED1)

EN IEC 62868-2-3:2021/prA1:2023 en  
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 2-3: Particular requirements – Flexible OLED tiles and panels (IEC 62868-2-3/am1 ED1)  
Izvori svjetla od organskih svjetlećih dioda (OLED) za opću rasvjetu – Sigurnost – Dio 2-3: Posebni zahtjevi – Fleksibilne OLED ploče i paneli (IEC 62868-2-3/am1 ED1)

prEN IEC 62868-2-4:2023 en  
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 2-4: Particular requirements – Rigid OLED tiles and panels (IEC 62868-2-4 ED1)

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

prEN IEC 61098:2023 en  
Radiation protection instrumentation – Installed personnel surface contamination monitors (IEC 61098:2023)

prEN IEC 62618:2023 en  
Radiation protection instrumentation – Spectroscopy-based alarming personal radiation detectors (SPRD) for the detection of illicit trafficking of radioactive material (IEC 62618:2022)  
Instrumentacija u zaštiti od zračenja – Alarmni spektroskopski osobni detektori zračenja za detekciju radioaktivnog materijala u nedopuštenome prometu (IEC 62618:2022)

prEN IEC 62694:2023 en  
Radiation protection instrumentation – Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material (IEC 62694:2022)  
Instrumentacija u zaštiti od zračenja – Prenosivi detektori zračenja za detekciju radioaktivnog materijala u nedopuštenomu prometu (IEC 62694:2022)

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

prEN IEC 61025:2023 en  
Fault tree analysis (FTA) (IEC 61025 ED3)  
Analiza stablom kvara (IEC 61025 ED3)

prEN IEC 62309:2023 en  
Dependability of products containing reused parts – Requirements for functionality and tests (IEC 62309 ED2)  
Pouzdanost opreme s ugrađenim prethodno rabljenim dijelovima – Zahtjevi za funkcionalnost i ispitivanje (IEC 62309 ED2)

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

prEN IEC 61326-2-6:2023 en  
Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-6: Particular requirements – In vitro diagnostic (IVD) medical equipment (IEC 61326-2-6 ED4)  
Električna oprema za mjerenje, vođenje i laboratorijsku uporabu – Zahtjevi za elektromagnetsku kompatibilnost (EMC) – Dio 2-6: Posebni zahtjevi – Medicinski uređaji za in vitro dijagnostiku (IEC 61326-2-6 ED4)

prEN IEC 63270:2023 en  
Industrial automation equipment and systems – Predictive maintenance (IEC 63270 ED1)

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

prEN IEC 62676-2-11:2023 en  
Alarm systems – Video Surveillance Systems (VSS) for use in security applications – Part 2-11: Video transmission protocols – Interop profiles for VMS- and cloud VSaaS-systems for safe-cities and law-enforcement (IEC 62676-2-11 ED1)

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

prEN IEC 61400-4:2023 en  
Wind energy generation systems – Part 4: Design requirements for wind turbine gearboxes (IEC 61400-4 ED2)  
Sustavi za proizvodnju energije iz vjetra – 4. dio: Zahtjevi za projektiranje za multiplikatore vjetroagregata (IEC 61400-4 ED2)

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

prEN IEC 61000-2-4:2023 en  
Electromagnetic compatibility (EMC) – Part 2-4: Environment – Compatibility levels in power distribution systems in industrial locations for low-frequency conducted disturbances (IEC 61000-2-4 ED3)  
Elektromagnetska kompatibilnost (EMC) – Dio 2-4: Okoliš – Razine kompatibilnosti u sustavima distribucije električne energije u industrijskim postrojenjima za niskofrekvencijske vođene smetnje (IEC 61000-2-4 ED3)

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

Draft EN 300 468 V1.18.0:2023 en  
Digital Video Broadcasting (DVB) – Specification for Service Information (SI) in DVB systems  
Digitalna videodifuzija (DVB) – Specifikacije za servisne informacije (SI) u DVB sustavima

Draft EN 301 545-2 V1.4.0:2023 en  
Digital Video Broadcasting (DVB) – Second Generation DVB Interactive Satellite System (DVB-RCS2) – Part 2: Lower Layers for Satellite standard  
Digitalna videodifuzija (DVB) – Druga generacija DVB interaktivnog satelitskog sustava (DVB-RCS2) – 2. dio: Niži slojevi za satelitsku normu

Draft EN 319 522-1 V1.2.0:2023 en  
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 1: Framework and Architecture  
Elektronički potpisi i infrastrukture (ESI) – Usluge isporuke elektronički registriranih poruka – 1. dio: Okvir i arhitektura

Draft EN 319 522-2 V1.2.0:2023 en  
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 2: Semantic contents  
Elektronički potpisi i infrastrukture (ESI) – Usluge isporuke elektronički registriranih poruka – 2. dio: Semantički sadržaji

Draft EN 319 522-3 V1.2.0:2023 en  
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 3: Formats  
Elektronički potpisi i infrastrukture (ESI) – Usluge isporuke elektronički registriranih poruka – 3. dio: Formati

Draft EN 319 532-3 V1.3.0:2023 en  
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 3: Formats  
Elektronički potpisi i infrastrukture (ESI) – Davatelji usluga registrirane elektroničke pošte (REM) – 3. dio: Formati

Draft EN 319 532-4 V1.3.0:2023 en  
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 4: Interoperability profiles  
Elektronički potpisi i infrastrukture (EPI) – Usluge registrirane elektroničke pošte (REP) – 4. dio: Profili interoperabilnosti

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

prEN ISO 1514 en  
Paints and varnishes – Standard panels for testing (ISO/DIS 1514:2023)  
Boje i lakovi – Standardne pločice za ispitivanje (ISO/DIS 1514:2023)

prEN ISO 2884-1 en  
Paints and varnishes – Determination of viscosity using rotational viscometers – Part 1: Absolute viscosity measurement with cone-plate measuring geometry at high shear rates (ISO/DIS 2884-1:2023)  
Boje i lakovi – Određivanje viskoznosti rotacijskim viskozimetrom – 1. dio: Mjerenje apsolutne viskoznosti konusno-pločastim viskozimetrom pri velikoj smičnoj brzini (ISO/DIS 2884-1:2023)

prEN ISO 2884-2 en  
Paints and varnishes – Determination of viscosity using rotational viscometers – Part 2: Relative measurement of viscosity using disc or ball spindles at specified speeds (ISO/DIS 2884-2:2023)  
Boje i lakovi – Određivanje viskoznosti rotacijskim viskozimetrom – 2. dio: Mjerenje relativne viskoznosti viskozimetrom s diskom ili kuglom pri određenoj brzini (ISO/DIS 2884-2:2023)

prEN 18000-1 en  
Animal health diagnostic analyses – Control of in vitro diagnostic reagents – Part 1: Application file for the initial and the batch-to-batch control  
Dijagnostičke analize u veterinarskoj medicini – Kontrola reagensa za dijagnostiku in vitro – 1. dio: Dosje za prijavu za početnu kontrolu i kontrolu serije

prEN 18000-2 en  
Animal health diagnostic analyses – Control of in-vitro diagnostic reagents – Part 2: Reagents for immunological techniques  
Dijagnostičke analize u veterinarskoj medicini – Kontrola reagensa za dijagnostiku in vitro – 2. dio: Reagensi za imonološke tehnike

prEN ISO 19403-2 en  
Paints and varnishes – Wettability – Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle (ISO/DIS 19403-2:2023)  
Boje i lakovi – Kvašenje – 2. dio: Određivanje slobodne površinske energije krute površine mjerenjem kontaktnog kuta (ISO/DIS 19403-2:2023)

prEN ISO 19403-3 en  
Paints and varnishes – Wettability – Part 3: Determination of the surface tension of liquids using the pendant drop method (ISO/DIS 19403-3:2023)  
Boje i lakovi – Kvašenje – 3. dio: Određivanje površinske napetosti tekućina metodom viseće kapi (ISO/DIS 19403-3:2023)

prEN ISO 19403-4 en  
Paints and varnishes – Wettability – Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension (ISO/DIS 19403-4:2023)  
Boje i lakovi – Kvašenje – 4. dio: Određivanje polarnih i disperzivnih udjela površinske napetosti tekućina iz međupovršinske napetosti (ISO/DIS 19403-4:2023)

prEN ISO 19403-5 en  
Paints and varnishes – Wettability – Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy (ISO/DIS 19403-5:2023)  
Boje i lakovi – Kvašenje – 5. dio: Određivanje polarnih i disperzivnih udjela površinske napetosti tekućina iz mjerenja kontaktnih kutova na krutini s čisto disperzivnim doprinosom energiji površine (ISO/DIS 19403-5:2023)

prEN ISO 19403-6 en  
Paints and varnishes – Wettability – Part 6: Measurement of dynamic contact angle (ISO/DIS 19403-6:2023)  
Boje i lakovi – Kvašenje – 6. dio: Mjerenje dinamičkog kontaktnog kuta (ISO/DIS 19403-6:2023)

prEN ISO 19403-7 en  
Paints and varnishes – Wettability – Part 7: Measurement of the dynamic contact angles and the roll-off angle on a tilt stage (ISO/DIS 19403-7:2023)  
Boje i lakovi – Kvašenje – 7. dio: Mjerenje dinamičkih kontaktnih kutova i kuta kotrljanja kapi na platformi na naginjanje (ISO/DIS 19403-7:2023)

prEN ISO 20567-4 en  
Paints and varnishes – Determination of stone-chip resistance of coatings – Part 4: Mobile multi-impact testing on a small testing area (ISO 20567-4:2023)  
Boje i lakovi – Određivanje otpornosti premaza na udare kamenim krhotinama – 4. dio: Ispitivanje u pokretu s više udara na maloj ispitnoj površini (ISO 20567-4:2023)

prEN ISO/ASTM 52941 en  
Additive manufacturing – System performance and reliability – Acceptance tests for laser metal powder-bed fusion machines for metallic materials for aerospace application (ISO/ASTM DIS 52941:2023)  
Aditivna proizvodnja – Radna svojstva i pouzdanost sustava – Ispitivanja za prihvaćanje strojeva za stapanje praškastih slojeva metalnih materijala za primjenu u zrakoplovstvu (ISO/ASTM DIS 52941:2023)

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

prEN ISO 12183 en  
Nuclear fuel technology – Controlled-potential coulometric measurement of plutonium (ISO/DIS 12183:2023)  
Tehnologija nuklearnog goriva – Kulometrijsko mjerenje plutonija s kontroliranim potencijalom (ISO/DIS 12183:2023)

EN 13814-1:2019/prA1 en  
Safety of amusement rides and amusement devices – Part 1:  
Design and manufacture  
Sigurnost vožnje i uređaja u zabavnim parkovima – 1. dio:  
Projektiranje i izrada

EN 13814-2:2019/prA1 en  
Safety of amusement rides and amusement devices – Part 2:  
Operation, maintenance and use  
Sigurnost vožnje i uređaja u zabavnim parkovima – 2. dio:  
Rukovanje, održavanje i upotreba

EN 13814-3:2019/prA1 en  
Safety of amusement rides and amusement devices  
– Part 3: Requirements for inspection during design,  
manufacture, operation and use  
Sigurnost vožnje i uređaja u zabavnim parkovima – 3. dio:  
Zahtjevi za inspekciju tijekom projektiranja, izrade, rukovanja  
i upotrebe

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

prEN IEC 60512-28-100:2023 en  
Connectors for electrical and electronic equipment – Tests  
and measurements – Part 28-100: Signal integrity tests up to  
2 000 MHz – Tests 28a to 28g (IEC 60512-28-100 ED3)  
Konektori za električnu i elektroničku opremu – Ispitivanja  
i mjerenja – Dio 28-100: Ispitivanja integriteta signala do  
2 000 MHz – Ispitivanja 28a do 28g (IEC 60512-28-100 ED3)

prEN IEC 60749-20-1:2023 en  
Semiconductor devices – Mechanical and climatic test  
methods – Part 20-1: Handling, packing, labelling and  
shipping of surface-mount devices sensitive to the combined  
effect of moisture and soldering heat (IEC 60749-20-1:2019)  
Poluvodički uređaji – Metode za mehanička i klimatska  
ispitivanja – Dio 20-1: Rukovanje, pakiranje, označivanje  
i otprema uređaja za površinsku montažu osjetljivih  
na kombinirani učinak vlage i topline lemljenja  
(IEC 60749-20-1:2019)

prEN IEC 61076-2-101:2023 en  
Connectors for electronic equipment – Product requirements  
– Part 2-101: Circular connectors – Detail specification for  
M12 connectors with screw-locking (IEC 61076-2-101 ED4)

EN IEC 62668-1:2019/prA1:2023 en  
Process management for avionics – Counterfeit prevention  
– Part 1: Avoiding the use of counterfeit, fraudulent and  
recycled electronic components (IEC 62668-1/am1 ED1)  
Upravljanje procesima za elektroničku zrakoplovnu opremu  
– Sprečavanje krivotvorina – 1. dio: Izbjegavanje upotrebe  
krivotvorenih, lažnih i recikliranih elektroničkih komponenti  
(IEC 62668-1/am1 ED1)

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

prEN IEC 61810-7-45:2023 en  
Electrical relays – Tests and measurements – Part 7-45:  
Maximum frequency of operation (IEC 61810-7-45 ED1)

prEN IEC 61810-7-48:2023 en  
Electrical relays – Tests and measurements – Part 7-48:  
Contact failure rate test (IEC 61810-7-48 ED1)

prEN IEC 61810-7-6:2023 en  
Electrical relays – Tests and Measurements – Part 7-6:  
Contact-circuit resistance (or voltage drop) (IEC 61810-7-6 ED1)

prEN IEC 62849:2023 en  
Performance evaluation methods of robots for household and  
similar use (IEC 62849 ED2)

## **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  
neprijemljiva.

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

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

HRN EN ISO 5263-3:2004 en  
Pulpe – Laboratorijsko mokro razvlaknjivanje – 3. dio:  
Razvlaknjivanje mehaničkih pulpi na > 85 °C (ISO 5263-3:2004;  
EN ISO 5263-3:2004)  
Pulps – Laboratory wet disintegration – Part 3: Disintegration  
of mechanical pulps at > 85 degrees C (ISO 5263-3:2004;  
EN ISO 5263-3:2004)  
- zamijenjena s: HRN EN ISO 5263-3:2023

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

HRN EN ISO 12156-1:2018 en  
Dizelsko gorivo – Ocjenjivanje mazivosti uporabom  
vibracijskog uređaja visoke frekvencije (HFRR) – 1. dio:  
Ispitna metoda (ISO 12156-1:2018; EN ISO 12156-1:2018)  
Diesel fuel – Assessment of lubricity using the  
high-frequency reciprocating rig (HFRR) – Part 1: Test method  
(ISO 12156-1:2018; EN ISO 12156-1:2018)  
- zamijenjena s: HRN EN ISO 12156-1:2023

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

HRN EN ISO 10534-2:2005 en  
Akustika – Određivanje koeficijenta zvučne apsorpcije i  
impedancije u impedancijskim cijevima – 2. dio: Metoda  
prijenosne funkcije (ISO 10534-2:1998; EN ISO 10534-2:2001)  
Acoustics – Determination of sound absorption coefficient  
and impedance in impedance tubes – Part 2: Transfer-function  
method (ISO 10534-2:1998; EN ISO 10534-2:2001)  
- zamijenjena s: HRN EN ISO 10534-2:2023

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

HRN EN ISO 12460-3:2020 en  
Ploče na osnovi drva – Određivanje otpuštanja formaldehida  
– 3. dio: Metoda analize plina (ISO 12460-3:2020;  
EN ISO 12460-3:2020)  
Wood-based panels – Determination of formaldehyde  
release – Part 3: Gas analysis method (ISO 12460-3:2020;  
EN ISO 12460-3:2020)  
- zamijenjena s: HRN EN ISO 12460-3:2023

### **HZN/TO 92, Zaštita od požara**

HRN EN ISO 13943:2017 en  
Zaštita od požara – Terminološki rječnik (ISO 13943:2017;  
EN ISO 13943:2017)  
Fire safety – Vocabulary (ISO 13943:2017; EN ISO 13943:2017)  
- zamijenjena s: HRN EN ISO 13943:2023

### **HZN/TO 120, Koža i obuća**

HRN EN 16484:2015 en  
Koža – Zahtjevi za određivanje podrijetla proizvodnje kože  
(EN 16484:2015)  
Leather – Requirements for the determination of the origin of  
leather production (EN 16484:2015)  
- zamijenjena s: HRN EN 16484:2023

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

HRN EN ISO 15535:2013 en  
Opći zahtjevi za utvrđivanje antropometrijske baze podataka  
(ISO 15535:2012; EN ISO 15535:2012)  
General requirements for establishing anthropometric  
databases (ISO 15535:2012; EN ISO 15535:2012)  
- zamijenjena s: HRN EN ISO 15535:2023



HRN EN ISO 20685-2:2017 en  
Ergonomija – 3-D metodologije skeniranja za međunarodno kompatibilne antropometrijske baze podataka – 2 dio: Evaluacijski protokol oblika površine i ponovljivosti relativnih referentnih pozicija (ISO 20685-2:2015; EN ISO 20685-2:2017)  
Ergonomics – 3-D scanning methodologies for internationally compatible anthropometric databases – Part 2: Evaluation protocol of surface shape and repeatability of relative landmark positions (ISO 20685-2:2015; EN ISO 20685-2:2017)  
- zamijenjena s: HRN EN ISO 20685-2:2023

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

HRN EN 16232:2018 en  
Proizvodi za dojenčad i malu djecu – Njihaljke za dojenčad (EN 16232:2013+A1:2018)  
Child use and care articles – Infant swings (EN 16232:2013+A1:2018)  
- zamijenjena s: HRN EN 16232:2023

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

HRN EN ISO 683-17:2015 en  
Toplinski obrađeni čelici, legirani čelici i čelici za obradu na automatima – 17. dio: Čelici za kuglične i valjkaste ležaje (EN ISO 683-17:2014; EN ISO 683-17:2014)  
Heat-treated steels, alloy steels and free-cutting steels – Part 17: Ball and roller bearing steels (EN ISO 683-17:2014; EN ISO 683-17:2014)  
- zamijenjena s: HRN EN ISO 683-17:2023

HRN EN ISO 2740:2011 en  
Sinterirani metalni materijali, osim tvrdih metala – Dijelovi za vlačno ispitivanje (ISO 2740:2009; EN ISO 2740:2009)  
Sintered metal materials, excluding hardmetals – Tensile test pieces (ISO 2740:2009; EN ISO 2740:2009)  
- zamijenjena s: HRN EN ISO 2740:2023

HRN EN ISO 3887:2018 en  
Čelici – Određivanje dubine razugličenja (ISO 3887:2017; EN ISO 3887:2018)  
Steels – Determination of the depth of decarburization (ISO 3887:2017; EN ISO 3887:2018)  
- zamijenjena s: HRN EN ISO 3887:2023

HRN EN ISO 4545-1:2018 en  
Metalni materijali – Ispitivanje tvrdoće prema Knoopu – 1. dio: Metoda ispitivanja (ISO 4545-1:2017; EN ISO 4545-1:2018)  
Metallic materials – Knoop hardness test – Part 1: Test method (ISO 4545-1:2017; EN ISO 4545-1:2018)  
- zamijenjena s: HRN EN ISO 4545-1:2023

HRN EN ISO 5754:2017 en  
Sinterirani metalni materijali, osim tvrdih metala – Ispitni uzorak bez ureza za ispitivanje žilavosti (ISO 5754:2017; EN ISO 5754:2017)  
Sintered metal materials, excluding hardmetals – Unnotched impact test piece (ISO 5754:2017; EN ISO 5754:2017)  
- zamijenjena s: HRN EN ISO 5754:2023

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

HRN EN ISO 12736:2015 en  
Industrija nafte i prirodnoga plina – Mokre termičke izolacijske prevlake za cjevovode, protočne vodove, opremu i podmorske strukture (ISO 12736:2014; EN ISO 12736:2014)  
Petroleum and natural gas industries – Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO 12736:2014; EN ISO 12736:2014)  
- zamijenjena s: HRN EN ISO 12736-1:2023,  
HRN EN ISO 12736-2:2023, HRN EN ISO 12736-3:2023

HRN EN ISO 15551-1:2015 en  
Industrija nafte i prirodnoga plina – Oprema za bušenje i proizvodnju – 1. dio: Električne uronjive pumpe za mehaničko podizanje fluida (ISO 15551-1:2015; EN ISO 15551-1:2015)  
Petroleum and natural gas industries – Drilling and production equipment – Part 1: Electric submersible pump systems for artificial lift (ISO 15551-1:2015; EN ISO 15551-1:2015)  
- zamijenjena s: HRN EN ISO 15551:2023

HRN EN ISO 19901-8:2015 en  
Industrija nafte i prirodnoga plina – Posebni zahtjevi za odobalne konstrukcije – 8. dio: Istraživanja morskog dna (ISO 19901-8:2014; EN ISO 19901-8:2015)  
Petroleum and natural gas industries – Specific requirements for offshore structures – Part 8: Marine soil Investigations (ISO 19901-8:2014; EN ISO 19901-8:2015)  
- zamijenjena s: HRN EN ISO 19901-8:2023

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

HRN EN 16454:2015 en  
Inteligentni transportni sustavi – Elektronička sigurnost – Ispitivanje sukladnosti elektroničkih hitnih poziva iz vozila (EN 16454:2015)  
Intelligent transport systems – ESafety – ECall end to end conformance testing (EN 16454:2015)  
- zamijenjena s: HRN EN 16454:2023

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

HRN EN 13232-1:2004 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 1. dio: Definicije (EN 13232-1:2003)  
Railway applications – Track – Switches and crossings – Part 1: Definitions (EN 13232-1:2003)  
- zamijenjena s: HRN EN 13232-1:2023

HRN EN 13232-2:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 2. dio: Zahtjevi za geometrijsko oblikovanje (EN 13232-2:2003+A1:2011)  
Railway applications – Track – Switches and crossings – Part 2: Requirements for geometric design (EN 13232-2:2003+A1:2011)  
- zamijenjena s: HRN EN 13232-2:2023

HRN EN 13232-3:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 3. dio: Zahtjevi za uzajamno djelovanje kotača i tračnice (EN 13232-3:2003+A1:2011)  
Railway applications – Track – Switches and crossings – Part 3: Requirements for wheel/rail interaction (EN 13232-3:2003+A1:2011)  
- zamijenjena s: HRN EN 13232-3:2023

HRN EN 13232-4:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 4. dio: Postavljanje, zaključavanje i kontrola položaja (EN 13232-4:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 4: Actuation, locking and detection (EN 13232-4:2005+A1:2011)  
- zamijenjena s: HRN EN 13232-4:2023

HRN EN 13232-5:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 5. dio: Mijenjalica (EN 13232-5:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 5: Switches (EN 13232-5:2005+A1:2011)  
- zamijenjena s: HRN EN 13232-5:2023

HRN EN 13232-6:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 6. dio: Nepomična obična i dvostruka srca (EN 13232-6:2005+A1:2011)  
Railway applications – Track – Switches and crossings – Part 6: Fixed common and obtuse crossings (EN 13232-6:2005+A1:2011)  
- zamijenjena s: HRN EN 13232-6:2023

HRN EN 13232-7:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 7. dio: Srca s pomičnim dijelovima (EN 13232-7:2006+A1:2011)  
Railway applications – Track – Switches and crossings – Part 7: Crossings with moveable parts (EN 13232-7:2006+A1:2011)  
- zamijenjena s: HRN EN 13232-7:2023

HRN EN 13232-8:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 8. dio: Dilatacijske naprave (EN 13232-8:2007+A1:2011)  
Railway applications – Track – Switches and crossings – Part 8: Expansion devices (EN 13232-8:2007+A1:2011)  
- zamijenjena s: HRN EN 13232-8:2023

HRN EN 13232-9:2012 en  
Željeznički sustav – Željeznički gornji ustroj – Skretnice i križišta – 9. dio: Sklapanje (EN 13232-9:2006+A1:2011)  
Railway applications – Track – Switches and crossings – Part 9: Layouts (EN 13232-9:2006+A1:2011)  
- zamijenjena s: HRN EN 13232-9:2023

HRN EN 15595:2019 en  
Željeznički sustav – Kočenje – Zaštita od proklizavanja  
(EN 15595:2018)  
Railway applications – Braking – Wheel slide protection  
(EN 15595:2018)  
- zamijenjena s: HRN EN 15595:2023

HRN EN 15595:2019/Ispr.1:2021 en  
Željeznički sustav – Kočenje – Zaštita od proklizavanja  
(EN 15595:2018/AC:2021)  
Railway applications – Braking – Wheel slide protection  
(EN 15595:2018/AC:2021)  
- zamijenjena s: HRN EN 15595:2023

HRN EN 17343:2021 en,fr,de  
Željeznički sustav – Opći nazivi i definicije (EN 17343:2020)  
Railway applications – General terms and definitions  
(EN 17343:2020)  
- zamijenjena s: HRN EN 17343:2023

HRN EN 45545-2:2020 en  
Željeznički sustav – Zaštita od požara na željezničkim vozilima  
– 2. dio: Zahtjevi za ponašanje materijala i komponenti u  
požaru (EN 45545-2:2020)  
Railway applications – Fire protection on railway vehicles  
– Part 2: Requirements for fire behavior of materials and  
components (EN 45545-2:2020)  
- zamijenjena s: HRN EN 45545-2:2023

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

HRN EN ISO 60:2004 en  
Plastika – Određivanje prividne gustoće materijala koji  
ne može istjecati iz označenih lijevaka (ISO 60:1977;  
EN ISO 60:1999)  
Plastics – Determination of apparent density of material  
that can be poured from a specified funnel (ISO 60:1977;  
EN ISO 60:1999)  
- zamijenjena s: HRN EN ISO 60:2023

HRN EN ISO 61:2004 en  
Plastika – Određivanje prividne gustoće materijala za  
prešanje koji ne može istjecati iz označenih lijevaka  
(ISO 61:1976; EN ISO 61:1999)  
Plastics – Determination of apparent density of moulding  
material that can be poured from a specified funnel  
(ISO 61:1976; EN ISO 61:1999)  
- zamijenjena s: HRN EN ISO 61:2023

HRN EN ISO 3671:2008 en  
Plastika – Aminoplastični materijali za prešanje – Određivanje  
hlapljivih tvari (ISO 3671:1976; EN ISO 3671:1998)  
Plastics – Aminoplastic moulding materials – Determination of  
volatile matter (ISO 3671:1976; EN ISO 3671:1998)  
- zamijenjena s: HRN EN ISO 3671:2023

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

HRN EN 1405:2010 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene  
ljudskoj uporabi – Natrijev alginat (EN 1405:2009)  
Chemicals used for treatment of water intended for human  
consumption – Sodium alginate (EN 1405:2009)  
- zamijenjena s: HRN EN 1405:2023

HRN EN 1407:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene  
ljudskoj uporabi – Anionski i neionski poliakrilamidi  
(EN 1407:2008)  
Chemicals used for treatment of water intended for human  
consumption – Anionic and non-ionic polyacrylamides  
(EN 1407:2008)  
- zamijenjena s: HRN EN 1407:2023

HRN EN 1408:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene  
ljudskoj uporabi – Poli(dialildimetilamonijev klorid) (EN 1408:2008)  
Chemicals used for treatment of water intended for human  
consumption – Poly (diallyldimethylammonium chloride)  
(EN 1408:2008)  
- zamijenjena s: HRN EN 1408:2023

HRN EN 1409:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene  
ljudskoj uporabi – Poliamini (EN 1409:2008)  
Chemicals used for water treatment intended for human  
consumption – Polyamines (EN 1409:2008)  
- zamijenjena s: HRN EN 1409:2023

HRN EN 1410:2008 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene  
ljudskoj uporabi – Kationski poliakrilamidi (EN 1410:2008)  
Chemicals used for treatment of water intended for human  
consumption – Cationic polyacrylamides (EN 1410:2008)  
- zamijenjena s: HRN EN 1410:2023

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

HRN EN ISO 5210:2017 en  
Industrijski ventili – Dodaci za višekretni pogon ventila  
(ISO 5210:2017; EN ISO 5210:2017)  
Industrial valves – Multi-turn valve actuator attachments  
(ISO 5210:2017; EN ISO 5210:2017)  
- zamijenjena s: HRN EN ISO 5210:2023

HRN EN ISO 5211:2017 en  
Industrijski ventili – Dodaci za dijelom okretni pogon ventila  
(ISO 5211:2017; EN ISO 5211:2017)  
Industrial valves – Part-turn actuator attachments  
(ISO 5211:2017; EN ISO 5211:2017)  
- zamijenjena s: HRN EN ISO 5211:2023

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

HRN EN ISO 1833-4:2017 en  
Tekstil – Kvantitativna kemijska analiza – 4. dio: Mješavine  
određenih proteinskih i određenih drugih vlakana (metoda s  
uporabom hipoklorita) (ISO 1833-4:2017; EN ISO 1833-4:2017)  
Textiles – Quantitative chemical analysis – Part 4: Mixtures of  
certain protein fibres with certain other fibres (method using  
hypochlorite) (ISO 1833-4:2017; EN ISO 1833-4:2017)  
- zamijenjena s: HRN EN ISO 1833-4:2023

### **HZN/TO 566, *Mlijeko i mliječni proizvodi***

HRN ISO 488:2009 en  
Mlijeko – Određivanje udjela masti – Butirometrijski po  
Gerberu (ISO 488:2008)  
Milk – Determination of fat content – Gerber butyrometers  
(ISO 488:2008)  
- zamijenjena s: HRN ISO 19662:2023

HRN ISO 2446:2009 en  
Mlijeko – Određivanje udjela masti (ISO 2446:2008)  
Milk – Determination of fat content (ISO 2446:2008)  
- zamijenjena s: HRN ISO 19662:2023

HRN ISO 5543:2010 en  
Kazeini i kazeinati – Određivanje udjela masti – Gravimetrijska  
metoda (Referentna metoda) (ISO 5543:2004)  
Caseins and caseinates – Determination of fat content  
– Gravimetric method (Reference method) (ISO 5543:2004)  
- zamijenjena s: HRN EN ISO 23319:2022

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

HRN ISO 10382:2009 en  
Kakvoća tla – Određivanje organoklornih pesticida i  
polikloriranih bifenila – Plinskokromatografska metoda s  
detekcijom zahvata elektrona (ISO 10382:2002)  
Soil quality – Determination of organochlorine pesticides and  
polychlorinated biphenyls – Gas-chromatographic method  
with electron capture detection (ISO 10382:2002)  
- bez zamjene

HRN ISO 14235:2004 en  
Kakvoća tla – Određivanje organskog ugljika sulfokromnom  
oksidacijom (ISO 14235:1998)  
Soil quality – Determination of organic carbon by sulfochromic  
oxidation (ISO 14235:1998)  
- bez zamjene

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

HRN ISO/IEC 2382-37:2017 en  
Informacijska tehnologija – Rječnik – 37. dio: Biometrija (ISO/IEC 2382-37:2017)  
Information technology – Vocabulary – Part 37: Biometrics (ISO/IEC 2382-37:2017)  
- zamijenjena s: HRN EN ISO/IEC 2382-37:2023

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

HRN EN 17531:2021 en  
Izveštavanje za potrebe nadzora nad on-line uslugama igara na sreću koji provode tijela država članica za nadzor nad igrama na sreću (EN 17531:2021)  
Reporting in support of supervision of online gambling services by the gambling regulatory authorities of the Member States (EN 17531:2021)  
- zamijenjena s: HRN EN 17531:2023

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

HRN ISO 653:2001 en  
Dugi štapni precizni termometri (ISO 653:1980)  
Long solid-stem thermometers for precision use (ISO 653:1980)  
- bez zamjene

HRN ISO 654:2001 en  
Kratki štapni precizni termometri (ISO 654:1980)  
Short solid-stem thermometers for precision use (ISO 654:1980)  
- bez zamjene

HRN ISO 655:2001 en  
Dugi precizni termometri sa zatvorenom skalom (ISO 655:1980)  
Long enclosed-scale thermometers for precision use (ISO 655:1980)  
- bez zamjene

HRN ISO 656:2001 en  
Kratki precizni termometri sa zatvorenom skalom (ISO 656:1980)  
Short enclosed-scale thermometers for precision use (ISO 656:1980)  
- bez zamjene

HRN EN ISO 10991:2010 en,fr,de  
Mikroprocesno inženjerstvo – Rječnik (ISO 10991:2009; EN ISO 10991:2009)  
Micro process engineering – Vocabulary (ISO 10991:2009; EN ISO 10991:2009)  
- zamijenjena s: HRN EN ISO 10991:2023

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

HRN EN 1300:2020 en  
Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje (EN 1300:2018)  
Secure storage units – Classification for high security locks according to their resistance to unauthorized opening (EN 1300:2018)  
- zamijenjena s: HRN EN 1300:2023

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

HRN EN 13726-1:2008 en  
Metode ispitivanja za primarne zavoje – 1. dio: Aspekti apsorpcije (EN 13726-1:2002)  
Test methods for primary wound dressings – Part 1: Aspects of absorbency (EN 13726-1:2002)  
- zamijenjena s: HRN EN 13726:2023

HRN EN 13726-2:2008 en  
Metode ispitivanja za primarne zavoje – 2. dio: Brzina propuštanja vodene pare kod propusnih zavoja od folije (EN 13726-2:2002)  
Test methods for primary wound dressings – Part 2: Moisture vapour transmission rate of permeable film dressings (EN 13726-2:2002)  
- zamijenjena s: HRN EN 13726:2023

HRN EN 13726-3:2008 en  
Neaktivni medicinski proizvodi – Metode ispitivanja za primarne zavoje – 3. dio: Vodonepropusnost (EN 13726-3:2003)  
Non-active medical devices – Test methods for primary wound dressings – Part 3: Waterproofness (EN 13726-3:2003)  
- zamijenjena s: HRN EN 13726:2023

HRN EN 13726-4:2008 en  
Neaktivni medicinski proizvodi – Metode ispitivanja za primarne zavoje – 4. dio: Sposobnost oblikovanja (EN 13726-4:2003)  
Non-active medical devices – Test methods for primary wound dressings – Part 4: Conformability (EN 13726-4:2003)  
- zamijenjena s: HRN EN 13726:2023

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

HRN EN 3660-003:2019 en  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 003: Uvodna matica, tip A – Norma za proizvod (EN 3660-003:2018)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 003: Grommet nut, style A – Product standard (EN 3660-003:2018)  
- zamijenjena s: HRN EN 3660-003:2023

HRN EN 3660-004:2020 en  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 004: Kabelski izlaz, tip A, ravni, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-004:2018+AC:2019)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief – Product standard (EN 3660-004:2018+AC:2019)  
- zamijenjena s: HRN EN 3660-004:2023

HRN EN 3660-005:2020 en  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 005: Kabelski izlaz, tip A, 90°, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-005:2018+AC:2019)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief – Product standard (EN 3660-005:2018+AC:2019)  
- zamijenjena s: HRN EN 3660-005:2023

HRN EN 4842:2019 en  
Zrakoplovstvo – X5CrNiCu15-5 (1.4545) – Pretopljen s topljivom elektrodom (ESR ili VAR) – Obraden otopinom i precipitom (H1025) – Šipke za strojnu obradu – a ili D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Vrhunska kvaliteta (pq) (EN 4842:2019)  
Aerospace series – X5CrNiCu15-5 (1.4545) – Consumable electrode remelted (ESR or VAR) – Solution treated and precipitation treated (H1025) – Bar for machining – a or D ≤ 250 mm – 1 070 MPa ≤ Rm ≤ 1 200 MPa – Premium quality (pq) (EN 4842:2019)  
- zamijenjena s: HRN EN 4842:2023

## 1.6 Ispravci hrvatskih norma

U popisima hrvatskih norma objavljenim u ranijim brojevima službenog glasila potkrale su se pogreške. Niže navodimo ispravne oznake i naslove hrvatskih norma. Navedeni ispravci smatraju se službenom informacijom i nisu nužno uključeni u norme koje su prethodno objavljene.

### HZN/TO E55, *Žice za namote*

- **umjesto**

HRN EN 60317-0-10:2017

Specifikacije pojedinih vrsta žica za namote – Dio 0-10: Opći zahtjevi – Nelakirana ili lakirana okrugla bakrena **žica omotana poliesterskim staklenim vlaknima, impregnirana lakom ili smolom** (IEC 60317-0-10:2017; EN 60317-0-10:2017) Specifications for particular types of winding wires – Part 0-10: General requirements – Polyester glass-fibre wound fused, unvarnished, or resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-10:2017; EN 60317-0-10:2017)

- **treba biti**

HRN EN 60317-0-10:2017

Specifikacije pojedinih vrsta žica za namote – Dio 0-10: Opći zahtjevi – Nelakirana ili lakirana okrugla bakrena **žica, omotana i stopljena neimpregniranim poliesterskim staklenim vlaknima ili poliesterskim staklenim vlaknima impregniranim lakom ili smolom** (IEC 60317-0-10:2017; EN 60317-0-10:2017) Specifications for particular types of winding wires – Part 0-10: General requirements – Polyester glass-fibre wound fused, unvarnished, or resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-10:2017; EN 60317-0-10:2017)

- **umjesto**

HRN EN IEC 60317-0-4:2020

Specifikacije pojedinih vrsta žica za namote – Dio 0-4: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica omotana staklenim vlaknima i impregnirana smolom ili lakom** (IEC 60317-0-4:2020; EN IEC 60317-0-4:2020) Specifications for particular types of winding wires – Part 0-4: General requirements – Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-4:2020; EN IEC 60317-0-4:2020)

- **treba biti**

HRN EN IEC 60317-0-4:2020

Specifikacije pojedinih vrsta žica za namote – Dio 0-4: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica, omotana staklenim vlaknima impregniranim smolom ili lakom** (IEC 60317-0-4:2020; EN IEC 60317-0-4:2020) Specifications for particular types of winding wires – Part 0-4: General requirements – Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-4:2020; EN IEC 60317-0-4:2020)

- **umjesto**

HRN EN 60317-0-6:2008

Specifikacije pojedinih vrsta žica za namote – Dio 0-6: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica omotana staklenim vlaknima i impregnirana smolom ili lakom** (IEC 60317-0-6:2001+am1:2006; EN 60317-0-6:2001+A1:2006) Specifications for particular types of winding wires – Part 0-6: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-6:2001+am1:2006; EN 60317-0-6:2001+A1:2006)

- **treba biti**

HRN EN 60317-0-6:2008

Specifikacije pojedinih vrsta žica za namote – Dio 0-6: Opći zahtjevi – Nelakirana ili lakirana okrugla bakrena **žica, omotana staklenim vlaknima impregniranim smolom ili lakom** (IEC 60317-0-6:2001+am1:2006; EN 60317-0-6:2001+A1:2006) Specifications for particular types of winding wires – Part 0-6: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-6:2001+am1:2006; EN 60317-0-6:2001+A1:2006)

- **umjesto**

HRN EN IEC 60317-0-6:2020

Specifikacije pojedinih vrsta žica za namote – Dio 0-6: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica omotana staklenim vlaknima i impregnirana smolom ili lakom** (IEC 60317-0-6:2020; EN IEC 60317-0-6:2020) Specifications for particular types of winding wires – Part 0-6: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-6:2020; EN IEC 60317-0-6:2020)

- **treba biti**

HRN EN IEC 60317-0-6:2020

Specifikacije pojedinih vrsta žica za namote – Dio 0-6: Opći zahtjevi – Nelakirana ili lakirana okrugla bakrena **žica, omotana staklenim vlaknima impregniranim smolom ili lakom** (IEC 60317-0-6:2020; EN IEC 60317-0-6:2020) Specifications for particular types of winding wires – Part 0-6: General requirements – Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire (IEC 60317-0-6:2020; EN IEC 60317-0-6:2020)

- **umjesto**

HRN EN 60317-0-7:2018

Specifikacije pojedinih vrsta žica za namote – Dio 0-7: Opći zahtjevi – **Potpuno izolirana (FIW) lakirana okrugla bakrena žica bez defekta** (IEC 60317-0-7:2017; EN 60317-0-7:2017) Specifications for particular types of winding wires – Part 0-7: General requirements – Fully insulated (FIW) zero-defect enamelled round copper wire (IEC 60317-0-7:2017; EN 60317-0-7:2017)

- **treba biti**

HRN EN 60317-0-7:2018

Specifikacije pojedinih vrsta žica za namote – Dio 0-7: Opći zahtjevi – **Okrugla lakirana bakrena žica, potpuno izolirana (FIW) bez defekta** (IEC 60317-0-7:2017; EN 60317-0-7:2017) Specifications for particular types of winding wires – Part 0-7: General requirements – Fully insulated (FIW) zero-defect enamelled round copper wire (IEC 60317-0-7:2017; EN 60317-0-7:2017)

- **umjesto**

HRN EN IEC 60317-0-8:2019

Specifikacije pojedinih vrsta žica za namote – Dio 0-8: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica, omotana poliesterskim staklenim vlaknima, nelakirana i stopljena, ili impregnirana lakom ili smolom** (IEC 60317-0-8:2019; EN IEC 60317-0-8:2019) Specifications for particular types of winding wires – Part 0-8: General requirements – Polyester glass-fibre wound unvarnished and fused, or resin or varnish impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-8:2019; EN IEC 60317-0-8:2019)

- **treba biti**

HRN EN IEC 60317-0-8:2019

Specifikacije pojedinih vrsta žica za namote – Dio 0-8: Opći zahtjevi – Nelakirana ili lakirana profilna bakrena **žica, omotana i stopljena neimpregniranim poliesterskim staklenim vlaknima ili poliesterskim staklenim vlaknima impregniranim lakom ili smolom** (IEC 60317-0-8:2019; EN IEC 60317-0-8:2019) Specifications for particular types of winding wires – Part 0-8: General requirements – Polyester glass-fibre wound unvarnished and fused, or resin or varnish impregnated, bare or enamelled rectangular copper wire (IEC 60317-0-8:2019; EN IEC 60317-0-8:2019)

- **umjesto**

HRN EN 60317-8:2013

Specifikacije pojedinih vrsta žica za namote – 8. dio: **Poliesterimidom lakirana okrugla bakrena žica, razreda 180** (IEC 60317-8:2010; EN 60317-8:2010) Specifications for particular types of winding wires – Part 8: Polyesterimide enamelled round copper wire, class 180 (IEC 60317-8:2010; EN 60317-8:2010)

- **treba biti**

HRN EN 60317-8:2013

Specifikacije pojedinih vrsta žica za namote – 8. dio: **Okrugla bakrena žica lakirana poliesterimidom, razreda 180** (IEC 60317-8:2010; EN 60317-8:2010) Specifications for particular types of winding wires – Part 8: Polyesterimide enamelled round copper wire, class 180 (IEC 60317-8:2010; EN 60317-8:2010)

• **umjesto**  
HRN EN 60317-12:2013  
Specifikacije pojedinih vrsta žica za namote – 12. dio: **Polivinil acetalom lakirana okrugla bakrena žica**, razreda 120 (IEC 60317-12:2010; EN 60317-12:2010)  
Specifications for particular types of winding wires – Part 12: Polyvinyl acetal enamelled round copper wire, class 120 (IEC 60317-12:2010; EN 60317-12:2010)

• **treba biti**  
HRN EN 60317-12:2013  
Specifikacije pojedinih vrsta žica za namote – 12. dio: **Okrugla bakrena žica lakirana polivinil acetalom**, razreda 120 (IEC 60317-12:2010; EN 60317-12:2010)  
Specifications for particular types of winding wires – Part 12: Polyvinyl acetal enamelled round copper wire, class 120 (IEC 60317-12:2010; EN 60317-12:2010)

• **umjesto**  
HRN EN 60317-13:2013  
Specifikacije pojedinih vrsta žica za namote – 13. dio: Poliesterom ili poliesterimidom lakirana, **prekrivena poliamid-imidom, okrugla bakrena žica**, razreda 200 (IEC 60317-13:2010; EN 60317-13:2010)  
Specifications for particular types of winding wires – Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200 (IEC 60317-13:2010; EN 60317-13:2010)

• **treba biti**  
HRN EN 60317-13:2013  
Specifikacije pojedinih vrsta žica za namote – 13. dio: Poliesterom ili poliesterimidom **lakirana okrugla bakrena žica, prekrivena poliamid-imidom**, razreda 200 (IEC 60317-13:2010; EN 60317-13:2010)  
Specifications for particular types of winding wires – Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200 (IEC 60317-13:2010; EN 60317-13:2010)

• **umjesto**  
HRN EN 60317-15:2005  
Specifikacije pojedinih vrsta žica za namote – 15. dio: **Poliesterimidom lakirana okrugla aluminijska žica**, razreda 180 (IEC 60317-15:2004; EN 60317-15:2004)  
Specifications for particular types of winding wires – Part 15: Polyesterimide enamelled round aluminium wire, class 180 (IEC 60317-15:2004; EN 60317-15:2004)

• **treba biti**  
HRN EN 60317-15:2005  
Specifikacije pojedinih vrsta žica za namote – 15. dio: **Okrugla aluminijska žica lakirana poliesterimidom**, razreda 180 (IEC 60317-15:2004; EN 60317-15:2004)  
Specifications for particular types of winding wires – Part 15: Polyesterimide enamelled round aluminium wire, class 180 (IEC 60317-15:2004; EN 60317-15:2004)

• **umjesto**  
HRN EN 60317-15:2005/A1:2013  
Specifikacije pojedinih vrsta žica za namote – 15. dio: **Poliesterimidom lakirana okrugla aluminijska žica**, razreda 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)  
Specifications for particular types of winding wires – Part 15: Polyesterimide enamelled round aluminium wire, class 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)

• **treba biti**  
HRN EN 60317-15:2005/A1:2013  
Specifikacije pojedinih vrsta žica za namote – 15. dio: **Okrugla aluminijska žica lakirana poliesterimidom**, razreda 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)  
Specifications for particular types of winding wires – Part 15: Polyesterimide enamelled round aluminium wire, class 180 (IEC 60317-15:2004/am1:2010; EN 60317-15:2004/A1:2010)

• **umjesto**  
HRN EN 60317-17:2013  
Specifikacije pojedinih vrsta žica za namote – 17. dio: **Polivinil acetalom lakirana profilna bakrena žica**, razreda 105 (IEC 60317-17:2010; EN 60317-17:2010)  
Specifications for particular types of winding wires – Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105 (IEC 60317-17:2010; EN 60317-17:2010)

• **treba biti**  
HRN EN 60317-17:2013  
Specifikacije pojedinih vrsta žica za namote – 17. dio: **Profilna bakrena žica lakirana polivinil acetalom**, razreda 105 (IEC 60317-17:2010; EN 60317-17:2010)  
Specifications for particular types of winding wires – Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105 (IEC 60317-17:2010; EN 60317-17:2010)

• **umjesto**  
HRN EN 60317-18:2005  
Specifikacije pojedinih vrsta žica za namote – 18. dio: **Polivinil acetalom lakirana profilna bakrena žica**, razreda 120 (IEC 60317-18:2004; EN 60317-18:2004)  
Specifications for particular types of winding wires – Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120 (IEC 60317-18:2004; EN 60317-18:2004)

• **treba biti**  
HRN EN 60317-18:2005  
Specifikacije pojedinih vrsta žica za namote – 18. dio: **Profilna bakrena žica lakirana polivinil acetalom**, razreda 120 (IEC 60317-18:2004; EN 60317-18:2004)  
Specifications for particular types of winding wires – Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120 (IEC 60317-18:2004; EN 60317-18:2004)

• **umjesto**  
HRN EN 60317-18:2005/A1:2013  
Specifikacije pojedinih vrsta žica za namote – 18. dio: **Polivinil acetalom lakirana profilna bakrena žica**, razreda 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)  
Specifications for particular types of winding wires – Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)

• **treba biti**  
HRN EN 60317-18:2005/A1:2013  
Specifikacije pojedinih vrsta žica za namote – 18. dio: **Profilna bakrena žica lakirana polivinil acetalom**, razreda 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)  
Specifications for particular types of winding wires – Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120 (IEC 60317-18:2004/am1:2009; EN 60317-18:2004/A1:2010)

• **umjesto**  
HRN EN 60317-20:2014  
Specifikacije pojedinih vrsta žica za namote – 20. dio: **Poliuretanom lakirana lemljiva okrugla bakrena žica**, razreda 155 (IEC 60317-20:2013; EN 60317-20:2014)  
Specifications for particular types of winding wires – Part 20: Solderable polyurethane enamelled round copper wire, class 155 (IEC 60317-20:2013; EN 60317-20:2014)

• **treba biti**  
HRN EN 60317-20:2014  
Specifikacije pojedinih vrsta žica za namote – 20. dio: **Lemljiva okrugla bakrena žica lakirana poliuretanom**, razreda 155 (IEC 60317-20:2013; EN 60317-20:2014)  
Specifications for particular types of winding wires – Part 20: Solderable polyurethane enamelled round copper wire, class 155 (IEC 60317-20:2013; EN 60317-20:2014)

- **umjesto**

HRN EN 60317-20:2014/A1:2019

Specifikacije pojedinih vrsta žica za namote – 20. dio: **Poliuretanom lakirana lemljiva okrugla bakrena žica**, razreda 155 (IEC 60317-20:2013/am1:2019; EN 60317-20:2014/A1:2019)  
Specifications for particular types of winding wires – Part 20: Solderable polyurethane enamelled round copper wire, class 155 (IEC 60317-20:2013/am1:2019; EN 60317-20:2014/A1:2019)

- **treba biti**

HRN EN 60317-20:2014/A1:2019

Specifikacije pojedinih vrsta žica za namote – 20. dio: **Lemljiva okrugla bakrena žica lakirana poliuretanom**, razreda 155 (IEC 60317-20:2013/am1:2019; EN 60317-20:2014/A1:2019)  
Specifications for particular types of winding wires – Part 20: Solderable polyurethane enamelled round copper wire, class 155 (IEC 60317-20:2013/am1:2019; EN 60317-20:2014/A1:2019)

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

- **umjesto**

HRN EN 62586-1:2017

Mjerenje kvalitete energije u sustavima opskrbe energijom – 1. dio: Instrumenti za mjerenje kvalitete energije (IEC 62586-1:2017; EN 62586-1:2017)  
Power quality measurement in power supply systems – Part 1: Power quality instruments (PQI) (IEC 62586-1:2017; EN 62586-1:2017)

- **treba biti**

HRN EN 62586-1:2017

Mjerenje kvalitete **električne** energije u sustavima opskrbe električnom energijom – 1. dio: Instrumenti za mjerenje kvalitete **električne** energije (IEC 62586-1:2017; EN 62586-1:2017)  
Power quality measurement in power supply systems – Part 1: Power quality instruments (PQI) (IEC 62586-1:2017; EN 62586-1:2017)

- **umjesto**

HRN EN 62586-2:2017

Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017; EN 62586-2:2017)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017; EN 62586-2:2017)

- **treba biti**

HRN EN 62586-2:2017

Mjerenje kvalitete **električne** energije u sustavima opskrbe **električnom** energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017; EN 62586-2:2017)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017; EN 62586-2:2017)

- **umjesto**

HRN EN 62586-2:2017/A1:2021

Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017/am1:2021; EN 62586-2:2017/A1:2021)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017/am1:2021; EN 62586-2:2017/A1:2021)

- **treba biti**

HRN EN 62586-2:2017/A1:2021

Mjerenje kvalitete **električne** energije u sustavima opskrbe **električnom** energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017/am1:2021; EN 62586-2:2017/A1:2021)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017/am1:2021; EN 62586-2:2017/A1:2021)

- **umjesto**

HRN EN 62586-2:2017/Isp.1:2018

Mjerenje kvalitete energije u sustavima opskrbe energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017/Corr.1:2018; EN 62586-2:2017/AC:2018)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017/Corr.1:2018; EN 62586-2:2017/AC:2018)

- **treba biti**

HRN EN 62586-2:2017/Isp.1:2018

Mjerenje kvalitete **električne** energije u sustavima opskrbe **električnom** energijom – 2. dio: Funkcionalna ispitivanja i zahtjevi nesigurnosti (IEC 62586-2:2017/Corr.1:2018; EN 62586-2:2017/AC:2018)  
Power quality measurement in power supply systems – Part 2: Functional tests and uncertainty requirements (IEC 62586-2:2017/Corr.1:2018; EN 62586-2:2017/AC:2018)

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

- **umjesto**

HRN EN ISO 6076:2023

Adhezivi – Ugradnja podnih obloga, drvenih podova, izravnavajućih masa i pločica – Specifikacija veličina zarez lopatice (ISO 6076:2023; EN ISO 6076:2023)  
Adhesives – Installation of floor coverings, wood flooring, levelling compounds and tiles – Specification of trowel notch sizes (ISO 6076:2023; EN ISO 6076:2023)

- **treba biti**

HRN EN ISO 6076:2023

Adhezivi – Ugradnja podnih obloga, drvenih podova, izravnavajućih masa i pločica – Specifikacija veličina zarez lopatice (ISO 6076:2023; **ispravljena verzija 2023-09**; EN ISO 8655-6:2022)  
Adhesives – Installation of floor coverings, wood flooring, levelling compounds and tiles – Specification of trowel notch sizes (ISO 6076:2023, **Corrected version 2023-09**; EN ISO 6076:2023)

## 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/TO 502, *Plinski uređaji*

HRN EN 15502-2-3:2023 en pr  
Plinski kotlovi za centralno grijanje – Dio 2-3: Posebna norma za hibridne uređaje koji kombiniraju plinski kotao i dizalicu topline u istom proizvodu (EN 15502-2-3:2023)  
Gas-fired central heating boilers – Part 2-3: Specific standard for hybrid units combining a gas-fired boiler and an electrical heat pump in a product (EN 15502-2-3:2023)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

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

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

HRN EN 13119:2016 hr,en,fr,de-en,fr,de pr-pp  
Ovještene fasade – Nazivlje (EN 13119:2016)  
Curtain walling – Terminology (EN 13119:2016)

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

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

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

HRN EN 61557-8:2015/Ispr.1:2016 hr-en pr-pp  
Električna sigurnost u niskonaponskim distribucijskim sustavima do 1 000 V izmjenične struje i 1 500 V istosmjerne struje – Oprema za ispitivanje, mjerenje ili nadzor zaštitnih mjera – 8. dio: Naprave za nadzor izolacije za IT sustave (IEC 61557-8:2014/Corr.1:2016; EN 61557-8:2015/AC:2016-06)  
Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems (IEC 61557-8:2014/Corr.1:2016; EN 61557-8:2015/AC:2016-06)

## 2 Rezultati medunarodne i europske normizacije

### Europska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 4880	Aerospace series – General technical specification for standard parts	49.035	2023-08
EN 6093	Aerospace series – Receptacle, floating, single lug	49.060	2023-08
EN 12341	Ambient air – Standard gravimetric measurement method for the determination of the PM10 or PM2,5 mass concentration of suspended particulate matter	13.040.20	2023-08
CEN/TR 12349	Mechanical vibration – Guide to the health effects of vibration on the human body	13.160	2023-08
EN 13445-2+A1	Unfired pressure vessels – Part 2: Materials	23.020.30	2023-08
EN 13445-4+A1	Unfired pressure vessels – Part 4: Fabrication	23.020.30	2023-08
EN 14350+A1	Child care articles – Drinking equipment – Safety requirements and test methods	97.190	2023-08
EN 15016-1	Railway applications – Technical documents – Part 1: General principles	01.100.01; 45.020	2023-08
EN 15016-2	Railway applications – Technical documents – Part 2: Parts lists	01.100.01; 45.020	2023-08
EN 15016-3	Railway applications – Technical documents – Part 3: Handling of modifications of technical documents	01.100.01; 45.020	2023-08
EN 15194+A1	Cycles – Electrically power assisted cycles – EPAC Bicycles	43.120; 43.150	2023-08
EN 15560	Inorganic fertilizers – Determination of total nitrogen in calcium cyanamide nitrate free	65.080	2023-08
EN 15561	Inorganic fertilizers – Determination of total nitrogen in calcium cyanamide containing nitrates	65.080	2023-08
EN 15562	Inorganic fertilizers – Determination of cyanamide nitrogen	65.080	2023-08
EN 15700	Safety of travelators for winter sport or tourist use	91.140.90	2023-08
EN 16062	Intelligent transport systems – ESafety – eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks	03.220.20; 13.200; 35.240.60	2023-08
EN 16186-5+A1	Railway applications – Driver's cabs – Part 5: External visibility for tram vehicles	45.060.10; 45.140	2023-08
EN 17229-2	Fitness centres – Requirements for centre amenities and operation – Part 2: Requirements for supervision and staff	03.080.30; 97.220.01	2023-08
EN 17678-2	Installation of post-tensioning kits for prestressing of structures – Part 2: Assessment of personnel	03.100.30; 91.080.40	2023-08
EN 17680	Sustainability of construction works – Evaluation of the potential for sustainable refurbishment of buildings	91.200	2023-08
EN 17885	Candle Accessories – Specification for fire safety and product safety labels	13.220.40; 71.100.99	2023-08
EN 17900	Leather – Standard data for the calculation of leather density	59.140.30	2023-08
CEN/TS 17943	Characterization of waste – Guidance on the determination of the content of elements and substances in waste	13.030.01	2023-08
CWA 18022	Exchanging of building and infrastructure damage information with Common Alerting Protocol	13.200; 35.240.99; 91.010.99	2023-08
CWA 18023	International and interinstitutional crisis and disaster management – Guideline for the mapping of terminology and icons	13.200	2023-08
CWA 18024	Emergency management – Incident situational reporting for critical infrastructures	13.200; 35.240.99	2023-08
CWA 18028	Semantic layer definition and suitability of OASIS EDXL-CAP and OASIS EDXL-SitRep standards for crisis management in critical infrastructures	13.200; 35.240.20	2023-08
EN 50360/A1	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	17.240; 33.070.01	2023-08



Oznaka norme	Naslov norme	ICS	Datum objave
EN 50470-4	Electricity metering equipment – Part 4: Particular requirements – Static meters for DC active energy (class indexes A, B and C)	91.140.50	2023-08
EN 50566/A1	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	17.240; 33.070.01; 33.100.10	2023-08
CLC/TS 50701	Railway applications – Cybersecurity	35.030; 45.020	2023-08
EN 50723	Measurement method for assessing the compatibility of induction hob and cookware	97.040.20	2023-08
EN 55016-2-3/A2	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (CISPR 16-2-3:2016/AMD2:2023)	33.100.01; 33.100.10; 33.100.20	2023-08
EN 60127-2/A1	Miniature fuses – Part 2: Cartridge fuse-links (IEC 60127-2:2014/A1:2020)	29.120.50	2023-08
EN IEC 60721-3-4/AC	Classification of environmental conditions – Part 3-4: Classification of groups of environmental parameters and their severities – Stationary use at non-weatherprotected locations (IEC 60721-3-4:2019/COR1:2023)	19.040	2023-08
EN IEC 60904-2	Photovoltaic devices – Part 2: Requirements for photovoltaic reference devices (IEC 60904-2:2023)	27.160	2023-08
EN IEC 61249-6-3	Materials for printed boards and other interconnecting structures – Part 6-3: Sectional specification set for reinforcement materials – Specification for finished fabric woven from "E" glass for printed boards (IEC 61249-6-3:2023)	31.180	2023-08
EN IEC 61300-3-45	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors (IEC 61300-3-45:2023)	33.180.20	2023-08
EN 61340-2-3/AC	Electrostatics – Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation (IEC 61340-2-3:2016/COR1:2023)	17.220.20; 17.220.99; 29.020	2023-08
EN IEC 63300	Test methods for electrical and magnetic properties of magnetic powder cores (IEC 63300:2023)	29.030; 29.100.10	2023-08
EN ISO 204	Metallic materials – Uniaxial creep testing in tension – Method of test (ISO 204:2023)	77.040.10	2023-08
EN ISO 407	Small medical gas cylinders – Pin-index yoke-type valve connections (ISO 407:2023)	11.040.10	2023-08
EN ISO 3262-18	Extenders – Specifications and methods of test – Part 18: Precipitated sodium aluminium silicate (ISO 3262-18:2023)	87.060.10	2023-08
EN ISO 3581	Welding consumables – Covered electrodes for manual metal arc welding of stainless and heat-resisting steels – Classification (ISO 3581:2023)	25.160.20	2023-08
EN ISO 3630-4	Dentistry – Endodontic instruments – Part 4: Auxiliary instruments (ISO 3630-4:2023)	11.060.20	2023-08
EN ISO 4032	Fasteners – Hexagon regular nuts (style 1) (ISO 4032:2023)	21.060.20	2023-08
EN ISO 6781-1	Performance of buildings – Detection of heat, air and moisture irregularities in buildings by infrared methods – Part 1: General procedures (ISO 6781-1:2023)	91.120.10	2023-08
EN ISO 7231	Polymeric materials, cellular, flexible – Determination of air flow value at constant pressure-drop (ISO 7231:2023)	83.100	2023-08
EN ISO 7933	Ergonomics of the thermal environment – Analytical determination and interpretation of heat stress using calculation of the predicted heat strain (ISO 7933:2023)	13.180	2023-08
EN ISO 8130-16	Coating powders – Part 16: Determination of density by liquid displacement in a measuring cylinder (ISO 8130-16:2022)	87.040	2023-08
EN ISO 10468	Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the ring creep properties under wet or dry conditions (ISO 10468:2023)	23.040.20	2023-08

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO/IEEE 11073-10419	Health informatics – Personal health device communication – Part 10419: Device specialization – Insulin pump (ISO/IEEE 11073-10419:2019)	35.240.80	2023-08
EN ISO 11267	Soil quality – Inhibition of reproduction of Collembola ( <i>Folsomia candida</i> ) by soil contaminants (ISO 11267:2023)	13.080.30	2023-08
EN ISO 11363-1/A1	Gas cylinders – 17E and 25E taper threads for connection of valves to gas cylinders – Part 1: Specifications – Amendment 1 (ISO 11363-1:2018/Amd 1:2023)	23.020.35	2023-08
EN ISO 14172	Welding consumables – Covered electrodes for manual metal arc welding of nickel and nickel alloys – Classification (ISO 14172:2023)	25.160.20	2023-08
EN ISO 17573-3	Electronic fee collection – System architecture for vehicle-related tolling – Part 3: Data dictionary (ISO 17573-3:2023)	03.220.20; 35.240.60	2023-08
EN ISO 18743/A1	Microbiology of the food chain – Detection of <i>Trichinella</i> larvae in meat by artificial digestion method – Amendment 1: Method validation studies and performance characteristics (ISO 18743:2015/Amd 1:2023)	07.100.30	2023-08
EN ISO 19111/A2	Geographic information – Referencing by coordinates – Amendment 2 (ISO 19111:2019/Amd 2:2023)	35.240.70	2023-08
EN ISO 19115-3	Geographic information – Metadata – Part 3: XML schema implementation for fundamental concepts (ISO 19115-3:2023)	35.240.70	2023-08
EN ISO 19659-1	Railway applications – Heating, ventilation and air conditioning systems for rolling stock – Part 1: Terms and definitions (ISO 19659-1:2017)	45.060.01	2023-08
EN ISO 20200	Plastics – Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test (ISO 20200:2023)	83.080.01	2023-08
EN ISO 21368	Adhesives – Guidelines for the fabrication of adhesively bonded structures and reporting procedures suitable for the risk evaluation of such structures (ISO 21368:2022)	83.180	2023-08
EN ISO 21911-1	Solid recovered fuels – Determination of self-heating – Part 1: Isothermal calorimetry (ISO 21911-1:2022)	75.160.10	2023-08
EN ISO 22477-2	Geotechnical investigation and testing – Testing of geotechnical structures – Part 2: Testing of piles: static tension load testing (ISO 22477-2:2023)	93.020	2023-08
EN ISO 22553-15	Paints and varnishes – Electro-deposition coatings – Part 15: Permeate residues (ISO 22553-15:2022)	87.040	2023-08
EN ISO 22553-16	Paints and varnishes – Electro-deposition coatings – Part 16: Pigment-binder ratio (ISO 22553-16:2022)	87.040	2023-08
EN ISO 22721	Conveyor belts – Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining (ISO 22721:2023)	53.040.20	2023-08
EN ISO 23196	Water quality – Calculation of biological equivalence (BEQ) concentrations (ISO 23196:2022)	13.060.70	2023-08
EN ISO 23537-2	Requirements for sleeping bags – Part 2: Fabric and material properties (ISO 23537-2:2023)	97.200.30	2023-08
EN ISO 23739	Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of zirconium oxide powders (ISO 23739:2021)	81.060.30	2023-08
EN ISO 24395	Dentistry – Classification of tooth restorations preparation (ISO 24395:2023)	11.060.01	2023-08
EN ISO 45001	Occupational health and safety management systems – Requirements with guidance for use (ISO 45001:2018)	03.100.70; 13.100	2023-08
EN ISO/ASTM 52902	Additive manufacturing – Test artefacts – Geometric capability assessment of additive manufacturing systems (ISO/ASTM 52902:2023)	25.030	2023-08
EN ISO/ASTM 52924	Additive manufacturing of polymers – Qualification principles – Classification of part properties (ISO/ASTM 52924:2023)	25.030	2023-08
EN ISO 56007	Innovation management – Tools and methods for managing opportunities and ideas – Guidance (ISO 56007:2023)	03.100.01; 03.100.40	2023-08
EN ISO 80004-1	Nanotechnologies – Vocabulary – Part 1: Core vocabulary (ISO 80004-1:2023)	01.040.07; 07.120	2023-08

## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 50360/A1	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	17.240; 33.070.01	2023-08
EN 50470-4	Electricity metering equipment – Part 4: Particular requirements – Static meters for DC active energy (class indexes A, B and C)	91.140.50	2023-08
EN 50566/A1	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	17.240; 33.070.01; 33.100.10	2023-08
CLC/TS 50701	Railway applications – Cybersecurity	35.030; 45.020	2023-08
EN 50723	Measurement method for assessing the compatibility of induction hob and cookware	97.040.20	2023-08
EN 55016-2-3/A2	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (CISPR 16-2-3:2016/AMD2:2023)	33.100.01; 33.100.10; 33.100.20	2023-08
EN 60127-2/A1	Miniature fuses – Part 2: Cartridge fuse-links (IEC 60127-2:2014/A1:2020)	29.120.50	2023-08
EN IEC 60721-3-4/AC	Classification of environmental conditions – Part 3-4: Classification of groups of environmental parameters and their severities – Stationary use at non-weatherprotected locations (IEC 60721-3-4:2019/COR1:2023)	19.040	2023-08
EN IEC 60904-2	Photovoltaic devices – Part 2: Requirements for photovoltaic reference devices (IEC 60904-2:2023)	27.160	2023-08
EN IEC 61249-6-3	Materials for printed boards and other interconnecting structures – Part 6-3: Sectional specification set for reinforcement materials – Specification for finished fabric woven from "E" glass for printed boards (IEC 61249-6-3:2023)	31.180	2023-08
EN IEC 61300-3-45	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors (IEC 61300-3-45:2023)	33.180.20	2023-08
EN 61340-2-3/AC	Electrostatics – Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation (IEC 61340-2-3:2016/COR1:2023)	17.220.20; 17.220.99; 29.020	2023-08
EN IEC 63300	Test methods for electrical and magnetic properties of magnetic powder cores (IEC 63300:2023)	29.030; 29.100.10	2023-08

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 102230-1 V 14.2.0	Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 1: Terminal features (Release 14)	35.240.15	2023-08
ETSI TS 102230-1 V 15.0.0	Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 1: Terminal features (Release 15)	35.240.15	2023-08
ETSI TS 102230-1 V 16.0.0	Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 1: Terminal features (Release 16)	35.240.15	2023-08
ETSI TS 102230-1 V 17.0.0	Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 1: Terminal features (Release 17)	35.240.15	2023-08
ETSI TS 102230-2 V 17.1.0	Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification – Part 2: UICC features (Release 17)	35.240.15	2023-08
ETSI TS 102232-1 V 3.30.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery	33.040.35	2023-08
ETSI TS 102232-3 V 3.12.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 3: Service-specific details for internet access services	33.040.35	2023-08
ETSI TS 102241 V 17.5.0	Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 17)	35.240.15	2023-08
ETSI TS 102657 V 2.1.1	Lawful Interception (LI) – Retained data handling – Handover interface for the request and delivery of retained data	33.040.35	2023-08
ETSI TS 102694-1 V 15.1.0	Smart Cards – Test specification for the Single Wire Protocol (SWP) interface – Part 1: Terminal features (Release 15)	35.240.15	2023-08
ETSI TS 103120 V 1.14.1	Lawful Interception (LI) – Interface for warrant information	33.040.35	2023-08
ETSI TS 103221-1 V 1.15.1	Lawful Interception (LI) – Internal Network Interfaces – Part 1: X1	33.040.35	2023-08
ETSI TS 103280 V 2.10.1	Lawful Interception (LI) – Dictionary for common parameters	33.040.35	2023-08
ETSI TS 103818 V 17.1.0	Smart Secure Platform (SSP) – I3C® interface (Release 17)	35.240.15	2023-08
ETSI TS 103840 V 1.1.1	SmartM2M – Model for oneM2M Performance Evaluation	33.200	2023-08
ETSI TR 103854 V 1.3.1	LEA support services – Interfaces for Lawful Disclosure of vehicle-related data: scenarios, examples and recommendations	33.040.35	2023-08
ETSI TS 104002 V 1.1.1	Publicly Available Specification (PAS) – DASH-IF Forensic A/B Watermarking An interoperable watermarking integration schema	33.170	2023-08
ETSI TS 118108 V 4.4.1	oneM2M – CoAP Protocol Binding (oneM2M TS-0008 version 4.4.1 Release 4)	33.200	2023-08
ETSI TS 118110 V 4.0.1	oneM2M – MQTT Protocol Binding (oneM2M TS-0010 version 4.0.1 Release 4)	33.200	2023-08
ETSI TS 118132 V 4.0.1	MAF and MEF Interface Specification (oneM2M TS-0032 version 4.0.1 Release 4)	33.200	2023-08
ETSI TR 118568 V 5.0.1	AI enablement to oneM2M (oneM2M TR-0068 version 5.0.1)	33.200	2023-08
ETSI TS 119312 V 1.4.3	Electronic Signatures and Infrastructures (ESI) – Cryptographic Suites	33.040.01	2023-08
ETSI TS 119411-6 V 1.1.1	Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 6: Requirements for Trust Service Providers issuing publicly trusted S/MIME certificates	33.040.01	2023-08
ETSI TR 119476 V 1.1.1	Electronic Signatures and Infrastructures (ESI) – Analysis of selective disclosure and zero-knowledge proofs applied to Electronic Attestation of Attributes	33.040.01	2023-08
ETSI TS 138101-3 V 15.22.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.101-3 version 15.22.0 Release 15)	33.070.99	2023-08

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI TS 138101-3 V 16.16.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.101-3 version 16.16.0 Release 16)	33.070.99	2023-08
ETSI TS 138101-3 V 17.10.0	5G – NR – User Equipment (UE) radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.101-3 version 17.10.0 Release 17)	33.070.99	2023-08
ETSI TS 138508-1 V 17.9.0	LTE – 5G – 5GS – User Equipment (UE) conformance specification – Part 1: Common test environment (3GPP TS 38.508-1 version 17.9.0 Release 17)	33.070.99	2023-08
ETSI TS 138521-1 V 17.9.0	5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Range 1 standalone (3GPP TS 38.521-1 version 17.9.0 Release 17)	33.070.50	2023-08
ETSI TS 138533 V 17.7.0	5G – NR – User Equipment (UE) conformance specification – Radio Resource Management (RRM) (3GPP TS 38.533 version 17.7.0 Release 17)	33.070.50	2023-08
ETSI GR RIS 002 V 1.1.1	Reconfigurable Intelligent Surfaces (RIS) – Technological challenges, architecture and impact on standardization	33.070.99; 35.110	2023-08
ETSI GR ZSM 009-3 V 1.1.1	Zero-touch network and Service Management (ZSM) – Closed-Loop Automation – Part 3: Advanced topics	35.110	2023-08
ETSI GS MEC-DEC 032-1 V 3.2.1	Multi-access Edge Computing (MEC) – API Conformance Test Specification – Part 1: Test Requirements and Implementation Conformance Statement (ICS)	33.070.99	2023-08
ETSI GS NFV-IFA 049 V 4.4.1	Network Functions Virtualisation (NFV) Release 4 – Architectural Framework – VNF generic OAM functions specification	35.110	2023-08
ETSI GS NFV-IFA 052 V 4.5.1	Network Functions Virtualisation (NFV) Release 4 – Management and Orchestration – CCM-VIM Interoperability Interface and Information Model Specification	35.110	2023-08
EN 301406-2 V 3.1.1	Digital Enhanced Cordless Telecommunications (DECT) – Harmonised Standard for access to radio spectrum – Part 2: DECT-2020 NR	33.070.30	2023-08

## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC/IEEE 80005-1 AMD 2	Utility connections in port – Part 1: High voltage shore connection (HVSC) systems – General requirements; Amendment 2	47.020.60	2023-08
IEC/IEEE 80005-1 Edition 2.2	Utility connections in port – Part 1: High voltage shore connection (HVSC) systems – General requirements	47.020.60	2023-08
ISO 199	Rolling bearings – Thrust bearings – Geometrical product specifications (GPS) and tolerance values	21.100.20	2023-08
ISO 492	Rolling bearings – Radial bearings – Geometrical product specifications (GPS) and tolerance values	21.100.20	2023-08
ISO 937	Meat and meat products – Determination of nitrogen content – Reference method	67.120.10	2023-08
ISO 1172	Textile-glass-reinforced plastics – Prepregs, moulding compounds and laminates – Determination of the textile-glass and mineral-filler content using calcination methods	83.120	2023-08
ISO 1442	Meat and meat products – Determination of moisture content – Reference method	67.120.10	2023-08
ISO 1663	Rigid cellular plastics – Determination of water vapour transmission properties	83.100	2023-08
ISO 2614	Analysis of natural gas – Biomethane – Determination of terpenes' content by micro gas chromatography	75.060	2023-08
ISO 3581	Welding consumables – Covered electrodes for manual metal arc welding of stainless and heat-resisting steels – Classification	25.160.20	2023-08
ISO 3630-4	Dentistry – Endodontic instruments – Part 4: Auxiliary instruments	11.060.20	2023-08
ISO 3797	Ships and marine technology – Vertical steel ladders	47.020.50	2023-08
ISO 4032	Fasteners – Hexagon regular nuts (style 1)	21.060.20	2023-08
ISO 4033	Fasteners – Hexagon high nuts (style 2)	21.060.20	2023-08
ISO 4035	Fasteners – Hexagon thin nuts (style 0)	21.060.20	2023-08
ISO 4548-13	Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 13: Static burst pressure test for composite filter housings	27.020	2023-08
ISO 4633	Rubber seals – Joint rings for water supply, drainage and sewerage pipelines – Specification for materials	83.140.50; 91.140.60; 91.140.80	2023-08
ISO/IEC 5021-2	Telecommunications and information exchange between systems – Wireless LAN access control – Part 2: Dispatching platform	35.110	2023-08
ISO/IEC 5087-1	Information technology – City data model – Part 1: Foundation level concepts	13.020.20; 35.240.99	2023-08
ISO 5103	Tourism and related services – Dry stack boat storage – Minimum requirements for operations and service provision	03.080.30; 03.200.99	2023-08
ISO 5110	Test method for flight stability of a multi-copter unmanned aircraft system (UAS) under wind and rain conditions	49.020	2023-08
ISO 5222-1	Heat recovery ventilators and energy recovery ventilators – Testing and calculating methods for seasonal performance factor – Part 1: Sensible heating recovery seasonal performance factors of heat recovery ventilators (HRV)	23.120	2023-08
ISO 5425	Specifications for use of poly(lactic acid) based filament in additive manufacturing applications	25.030; 83.080.01	2023-08
ISO 5483	Ships and marine technology – Drain facilities from oil and water tanks	47.020.30	2023-08
ISO 5714	Clean cookstoves and clean cooking solutions – Test protocols for institutional cookstoves	97.040.20	2023-08
ISO 5724	Jewellery and precious metals – Determination of very high purity gold – Difference method using ICP-MS	39.060	2023-08
ISO 5879	Space systems – Ground test for the separation between a launch vehicle and a spacecraft – Requirements for combined separation tests, horizontal separation tests and individual falling separation tests	49.140	2023-08
ISO 5978	Rubber- or plastics-coated fabrics – Determination of blocking resistance	59.080.40	2023-08

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ISO/IEC 6523-1	Information technology – Structure for the identification of organizations and organization parts – Part 1: Identification of organization identification schemes	35.040.50	2023-08
ISO 6742-1	Cycles – Lighting and retro-reflective devices – Part 1: Lighting and light signalling devices	43.150	2023-08
ISO 6742-2	Cycles – Lighting and retro-reflective devices – Part 2: Retro-reflective devices	43.150	2023-08
ISO 6742-3	Cycles – Lighting and retro-reflective devices – Part 3: Installation and use of lighting and retro-reflective devices	43.150	2023-08
ISO 6742-4	Cycles – Lighting and retro-reflective devices – Part 4: Lighting systems powered by the cycle's movement	43.150	2023-08
ISO 6742-5	Cycles – Lighting and retro-reflective devices – Part 5: Lighting systems not powered by the cycle's movement	43.150	2023-08
ISO 6781-1	Performance of buildings – Detection of heat, air and moisture irregularities in buildings by infrared methods – Part 1: General procedures	91.120.10	2023-08
ISO 7055	Natural gas – Upstream area – Determination of drag reduction in laboratory for slick water	75.060	2023-08
ISO/TS 7127	Light and lighting – Building information modelling properties for lighting – Lighting systems	35.240.67	2023-08
ISO 7173	Furniture – Chairs and stools – Determination of strength and durability	97.140	2023-08
ISO 7231	Polymeric materials, cellular, flexible – Determination of air flow value at constant pressure-drop	83.100	2023-08
ISO 8124-6	Safety of toys – Part 6: Certain phthalate esters	97.200.50	2023-08
ISO 8124-12	Safety of toys – Part 12: Microbiological safety	07.100.99; 97.200.50	2023-08
ISO 8673	Fasteners – Hexagon regular nuts (style 1), with fine pitch thread	21.060.20	2023-08
ISO 8674	Fasteners – Hexagon high nuts (style 2), with fine pitch thread	21.060.20	2023-08
ISO 8675	Fasteners – Hexagon thin nuts (style 0), with fine pitch thread	21.060.20	2023-08
ISO 9182-1	Tools for pressing – Guide pillars – Part 1: Types	25.120.10	2023-08
ISO 9182-2	Tools for pressing – Guide pillars – Part 2: Type A, straight pillars	25.120.10	2023-08
ISO 9182-3	Tools for pressing – Guide pillars – Part 3: Type B, end-locking pillars	25.120.10	2023-08
ISO 9182-4	Tools for pressing – Guide pillars – Part 4: Type C, pillars with taper lead and bush	25.120.10	2023-08
ISO 9182-5	Tools for pressing – Guide pillars – Part 5: Type D, end-locking pillars with flange	25.120.10	2023-08
ISO 9241-221	Ergonomics of human-system interaction – Part 221: Human-centred design process assessment model	13.180; 35.180	2023-08
ISO 9519	Ships and marine technology – Single rungs and rungs for dog-step ladders	47.020.50	2023-08
ISO/IEC 9797-1 AMD 1	Information technology – Security techniques – Message Authentication Codes (MACs) – Part 1: Mechanisms using a block cipher – Amendment 1	35.030	2023-08
ISO/TR 9839	Road vehicles – Application of predictive maintenance to hardware with ISO 26262-5	43.040.10	2023-08
ISO 10300-1	Calculation of load capacity of bevel gears – Part 1: Introduction and general influence factors	21.200	2023-08
ISO 10300-2	Calculation of load capacity of bevel gears – Part 2: Calculation of surface durability (macropitting)	21.200	2023-08
ISO 10300-3	Calculation of load capacity of bevel gears – Part 3: Calculation of tooth root strength	21.200	2023-08
ISO/TS 10689	Nanotechnologies – Superhydrophobic surfaces and coatings: Characteristics and performance assessment	7.120	2023-08
ISO 10813-1	Vibration generating machines – Guidance for selection – Part 1: Equipment for environmental testing	17.160	2023-08

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ISO/TS 10818	Nanotechnologies – Textiles containing nanomaterials and nanostructures – Superhydrophobic characteristics and durability assessment	07.120; 59.080.01	2023-08
ISO 10976	Refrigerated light hydrocarbon fluids – Measurement of cargoes on board LNG carriers	75.180.30	2023-08
ISO 11267	Soil quality – Inhibition of reproduction of Collembola (Folsomia candida) by soil contaminants	13.080.30	2023-08
ISO 11363-1 AMD 1	Gas cylinders – 17E and 25E taper threads for connection of valves to gas cylinders – Part 1: Specifications – Amendment 1	23.020.35	2023-08
ISO 12614-20	Road vehicles – Liquefied natural gas (LNG) fuel system components – Part 20: Flexible fuel or vent lines	43.060.40	2023-08
ISO/TR 12770	Intelligent transport systems – Mobility integration – ITS data aggregation role and functional model	03.220.01; 35.240.60	2023-08
ISO 13408-1	Aseptic processing of health care products – Part 1: General requirements	11.080.01	2023-08
ISO 13915	Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for optical properties of ceramic phosphors for white light-emitting diodes with reference materials	81.060.30	2023-08
ISO 13927	Plastics – Simple heat release test using a conical radiant heater and a thermopile detector	83.080.01	2023-08
ISO 14066	Environmental information – Competence requirements for teams validating and verifying environmental information	13.020.40	2023-08
ISO/TR 14644-21	Cleanrooms and associated controlled environments – Part 21: Airborne particle sampling techniques	13.040.35	2023-08
ISO 14920	Thermal spraying – Spraying and fusing of self-fluxing alloys	25.220.20	2023-08
ISO 14932	Rubber compounding ingredients – Organic vulcanizing agents – Determination of organic peroxide content	83.040.20	2023-08
ISO 15002	Flow control devices for connection to a medical gas supply system	11.040.10	2023-08
ISO 15500-23	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 23: Gas temperature sensor	43.060.40	2023-08
ISO 16000-41	Indoor air – Part 41: Assessment and classification	13.040.20	2023-08
ISO 16000-42	Indoor air – Part 42: Measurement of the particle number concentration by condensation particle counters	13.040.20	2023-08
ISO/TR 16203	Overview of methods available for particle-free erosion corrosion testing in flowing liquids	77.060	2023-08
ISO 17573-3	Electronic fee collection – System architecture for vehicle-related tolling – Part 3: Data dictionary	03.220.20; 35.240.60	2023-08
ISO 17689	Space systems – Interface control documents between ground systems, ground support equipment and launch vehicle with payload	49.140	2023-08
ISO 17751-2	Textiles – Quantitative analysis of cashmere, wool, other specialty animal fibres and their blends – Part 2: Scanning electron microscopy method	59.060.10	2023-08
ISO 18242 AMD 1	Cardiovascular implants and extracorporeal systems – Centrifugal blood pumps – Amendment 1: Worst-case conditions for testing	11.040.40	2023-08
ISO 18743 AMD 1	Microbiology of the food chain – Detection of Trichinella larvae in meat by artificial digestion method – Amendment 1: Method validation studies and performance characteristics	07.100.30	2023-08
ISO 19111 AMD 2	Geographic information – Referencing by coordinates – Amendment 2	35.240.70	2023-08
ISO 19115-3	Geographic information – Metadata – Part 3: XML schema implementation for fundamental concepts	35.240.70	2023-08
ISO 19162 AMD 1	Geographic information – Well-known text representation of coordinate reference systems – Amendment 1	35.240.70	2023-08
ISO 19238	Radiological protection – Performance criteria for service laboratories performing biological dosimetry by cytogenetics – Dicentric assay	13.280; 17.240	2023-08



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ISO 19642-1	Road vehicles – Automotive cables – Part 1: Vocabulary and design guidelines	01.040.43; 43.040.10	2023-08
ISO 19642-2	Road vehicles – Automotive cables – Part 2: Test methods	43.040.10	2023-08
ISO 20200	Plastics – Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test	83.080.01	2023-08
ISO 20653	Road vehicles – Degrees of protection (IP code) – Protection of electrical equipment against foreign objects, water and access	43.040.10	2023-08
ISO 20766-5	Road vehicles – Liquefied petroleum gas (LPG) fuel system components – Part 5: Fuel selection system and electrical installations	43.060.40	2023-08
ISO 20947-3	Performance evaluation protocol for digital fitting systems – Part 3: Digital fitting performance – Gap	61.020	2023-08
ISO 21815-3	Earth-moving machinery – Collision warning and avoidance – Part 3: Risk area and risk level for forward/reverse motion	53.100	2023-08
ISO 22077-2	Health informatics – Medical waveform format – Part 2: Electrocardiography	35.240.80	2023-08
ISO 22077-3	Health informatics – Medical waveform format – Part 3: Long-term electrocardiography	35.240.80	2023-08
ISO 22188	Monitoring for inadvertent movement and illicit trafficking of radioactive material	13.280	2023-08
ISO 22376	Security and resilience – Authenticity, integrity and trust for products and documents – Specification and usage of visible digital seal (VDS) data format for authentication, verification and acquisition of data carried by a document or object	03.100.01; 35.040.50	2023-08
ISO 22574	Road vehicles – Brake linings friction materials – Visual inspection	43.040.40	2023-08
ISO 22804	Marine technology – General technical requirement of marine conductivity-temperature-depth (CTD) measuring instrument	19.040; 47.020.99	2023-08
ISO/IEC 23001-7	Information technology – MPEG systems technologies – Part 7: Common encryption in ISO base media file format files	35.040.40	2023-08
ISO/IEC 23090-12	Information technology – Coded representation of immersive media – Part 12: MPEG immersive video	35.040.40	2023-08
ISO/IEC 23094-1 AMD 1	Information technology – General video coding – Part 1: Essential video coding – Amendment 1: Green metadata supplemental enhancement information	35.040.40	2023-08
ISO 23139	Biological equipment for treating air and other gases – Requirements and application guidance for deodorization in wastewater treatment plants	91.140.30	2023-08
ISO 23316-3	Tractors and machinery for agriculture and forestry – Electrical high-power interface 700 V DC / 480 V AC – Part 3: Safety requirements	65.060.10	2023-08
ISO 23316-4	Tractors and machinery for agriculture and forestry – Electrical high-power interface 700 V DC / 480 V AC – Part 4: AC operation mode	65.060.10	2023-08
ISO 23316-7	Tractors and machinery for agriculture and forestry – Electrical high-power interface 700 V DC / 480 V AC – Part 7: Mechanical integration	65.060.10	2023-08
ISO/TS 23374-2	Intelligent transport systems – Automated valet parking systems (AVPS) – Part 2: Security integration for type 3 AVP	03.220.20; 35.240.60	2023-08
ISO 23537-2	Requirements for sleeping bags – Part 2: Fabric and material properties	97.200.30	2023-08
ISO 23596	Rare earth – Determination of rare earth content in individual rare earth metals and their compounds – Gravimetric method	77.040.30	2023-08
ISO 23597	Rare earth – Determination of rare earth content in individual rare earth metals and their oxides – Titration method	77.040.30	2023-08
ISO/IEC 23837-1	Information security – Security requirements, test and evaluation methods for quantum key distribution – Part 1: Requirements	35.030	2023-08

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ISO 23853	Cranes – Training of slingers and signallers	03.100.30; 53.020.20	2023-08
ISO/IEC 24029-2	Artificial intelligence (AI) – Assessment of the robustness of neural networks – Part 2: Methodology for the use of formal methods	35.020	2023-08
ISO 24354	General requirements for the payload interface of civil unmanned aircraft systems	49.020	2023-08
ISO 24364	Royal jelly production	65.140	2023-08
ISO 24395	Dentistry – Classification of tooth restorations preparation	11.060.01	2023-08
ISO 24478	Railway applications – Braking – General vocabulary	01.040.45; 45.020	2023-08
ISO/TS 24665	Playground and recreational areas – Framework for the competence of playground inspectors and playground maintenance technicians	97.220.01	2023-08
ISO 27026	Space systems – Programme management – Breakdown of project management structures	49.140	2023-08
ISO/IEC TS 27560	Privacy technologies – Consent record information structure	35.030	2023-08
ISO 28741	Road vehicles – Spark-plugs and their cylinder head housings – Basic characteristics and dimensions	43.060.50	2023-08
ISO/IEC 30107-1	Information technology – Biometric presentation attack detection – Part 1: Framework	35.240.15	2023-08
ISO 34503	Road Vehicles – Test scenarios for automated driving systems – Specification for operational design domain	43.020	2023-08
ISO/IEC 39794-4 AMD 1	Information technology – Extensible biometric data interchange formats – Part 4: Finger image data – Amendment 1: Extension towards improved interoperability with ANSI/NIST-ITL	35.240.15	2023-08
ISO/ASTM 52902	Additive manufacturing – Test artefacts – Geometric capability assessment of additive manufacturing systems	25.030	2023-08
ISO/ASTM 52924	Additive manufacturing of polymers – Qualification principles – Classification of part properties	25.030	2023-08
ISO 56007	Innovation management – Tools and methods for managing opportunities and ideas – Guidance	03.100.01; 03.100.40	2023-08

## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC/TR 63401-33	Dynamic characteristics of inverter-based resources in bulk power systems – Part 3: Fast frequency response and frequency ride-through from inverter-based resources during severe frequency disturbances	27.190; 29.240.01	2023-08
IEC/TR 61643-03	Low-voltage surge protective devices – Part 03: SPD testing guide	29.120.50	2023-08
IEC/TR 63475	Universal Archival Disk Format (UADF)	35.220.01	2023-08
IEC/TR 63479-1	Infotainment Services for Public Vehicles (PVIS) – Part 1: General	33.160.60; 43.040.15	2023-08
IEC/TR 63447-1	Form factor of smart mobile device – Part 1: Impact on multimedia services	33.050.01	2023-08
IEC/TR 63340-1	Electronic displays for special applications – Part 1: General introduction	31.120	2023-08
IEC/TR 62899-304-1	Printed electronics – Part 304-1: Equipment – Sintering – Temperature measurement method for photonic sintering system	31.180	2023-08
IEC 60092-303	Electrical installations in ships – Part 303: Equipment – Power transformers and reactors	47.020.60	2023-08
IEC 60115-8	Fixed resistors for use in electronic equipment – Part 8: Sectional specification: Fixed surface mount resistors	31.040.10	2023-08
IEC 60364-7-716	Low-voltage electrical installations – Part 7-716: Requirements for special installations or locations – ELV DC power distribution over information and communications technology (ICT) cable infrastructure	29.020; 35.110; 91.140.50	2023-08
IEC 60393-3	Potentiometers for use in electronic equipment – Part 3: Sectional specification: Rotary precision potentiometers	31.040.20	2023-08
IEC 60598-1 Interpretation Sheet 1	Luminaires – Part 1: General requirements and tests; Interpretation Sheet 1	29.140.40	2023-08
IEC 60601-2-76 AMD 1	Medical electrical equipment – Part 2-76: Particular requirements for the basic safety and essential performance of low energy ionized gas haemostasis equipment; Amendment 1	11.040.60	2023-08
IEC 60601-2-76 Edition 1.1	Medical electrical equipment – Part 2-76: Particular requirements for the basic safety and essential performance of low energy ionized gas haemostasis equipment	11.040.60	2023-08
IEC 60626-1	Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements	29.035.01	2023-08
IEC 60674-3-3	Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 3: Polycarbonate (PC) films used for electrical insulation	29.035.20	2023-08
IEC 60674-3-7	Plastic films for electrical purposes – Part 3: Specifications for individual materials – Sheet 7: Fluoroethylene-propylene (FEP) films used for electrical insulation	29.035.20	2023-08
IEC 60851-3	Winding wires – Test methods – Part 3: Mechanical properties	29.060.10	2023-08
IEC 60870-5-104 AMD 1 Corrigendum 1	Telecontrol equipment and systems – Part 5-104: Transmission protocols – Network access for IEC 60870-5-101 using standard transport profiles; Amendment 1; Corrigendum 1	33.200	2023-08
IEC/TS 60871-3 AMD 1	Shunt capacitors for AC power systems having a rated voltage above 1000 V – Part 3: Protection of shunt capacitors and shunt capacitor banks; Amendment 1	29.240.99; 31.060.70	2023-08
IEC/TS 60871-3 Edition 2.1	Shunt capacitors for AC power systems having a rated voltage above 1000 V – Part 3: Protection of shunt capacitors and shunt capacitor banks	29.240.99; 31.060.70	2023-08
IEC 60939-2 AMD 1	Passive filter units for electromagnetic interference suppression – Part 2: Sectional specification – Passive filter units for which safety tests are appropriate – Test methods and general requirements; Amendment 1	31.160	2023-08
IEC 60939-2 Edition 2.1	Passive filter units for electromagnetic interference suppression – Part 2: Sectional specification – Passive filter units for which safety tests are appropriate – Test methods and general requirements	31.160	2023-08

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IEC 61000-4-24 AMD 1	Electromagnetic compatibility (EMC) – Part 4-24: Testing and measurement techniques – Test methods for protective devices for HEMP conducted disturbance; Amendment 1	33.100.01; 33.100.20	2023-08
IEC 61000-4-24 Edition 2.1	Electromagnetic compatibility (EMC) – Part 4-24: Testing and measurement techniques – Test methods for protective devices for HEMP conducted disturbance	33.100.01; 33.100.20	2023-08
IEC 61076-8-105	Connectors for electrical and electronic equipment – Product requirements – Part 8-105: Power connectors – Detail specification for 2-pole snap locking rectangular power connectors with plastic housing for 63 A rated current and 400 V rated voltage	31.220.10	2023-08
IEC 61189-2-804	Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 2-804: Test methods for time to delamination – T260, T288, T300	31.180	2023-08
IEC 61196-13	Coaxial communication cables – Part 13: Sectional specification for semi-rigid cables with silicon dioxide dielectric	33.120.10	2023-08
IEC/TS 61496-5	Safety of machinery – Electro-sensitive protective equipment – Part 5: Particular requirements for radar-based protective devices	13.110; 29.260.99	2023-08
IEC 61557-7 AMD 1	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 7: Phase sequence; Amendment 1	17.220.20; 29.080.01; 29.240.01	2023-08
IEC 61557-7 Edition 3.1	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 7: Phase sequence	17.220.20; 29.080.01; 29.240.01	2023-08
IEC 61557-13	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 13: Hand-held and hand-manipulated current clamps and sensors for measurement of leakage currents in electrical distribution systems	17.220.20; 29.080.01; 29.240.01	2023-08
IEC 61557-14	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 14: Equipment for testing the safety of electrical equipment of machinery	17.220.20; 29.080.01; 29.240.01	2023-08
IEC 61557-16	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 16: Equipment for testing the effectiveness of the protective measures of electrical equipment and/or medical electrical equipment	17.220.20; 29.080.01	2023-08
IEC 61757-1-2	Fibre optic sensors – Part 1-2: Strain measurement – Distributed sensing based on Brillouin scattering	33.180.99	2023-08
IEC/TR 61850-90-7	Communication networks and systems for power utility automation – Part 90-7: Object models for power converters in distributed energy resources (DER) systems	33.040.40; 33.200	2023-08
IEC/TR 61850-90-27	Communication networks and systems for power utility automation – Part 90-27: Use of IEC 61850 for thermal energy systems connected to electric power grid	33.040.40; 33.200	2023-08
IEC 62220-2-1	Medical electrical equipment – Characteristics of digital X-ray imaging devices – Part 2-1: Determination of dual-energy subtraction efficiency – Detectors used for dual-energy radiographic imaging	11.040.50	2023-08
IEC 62271-202 Corrigendum 1	High-voltage switchgear and controlgear – Part 202: AC prefabricated substations for rated voltages above 1 kV and up to and including 52 kV; Corrigendum 1	29.130.10	2023-08
IEC 62751-2 AMD 2	Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems – Part 2: Modular multilevel converters; Amendment 2	29.200; 29.240.99	2023-08

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IEC 62751-2 Edition 1.2	Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems – Part 2: Modular multilevel converters	29.200; 29.240.99	2023-08
IEC 62788-2-1	Measurement procedures for materials used in photovoltaic modules – Part 2-1: Polymeric materials – Frontsheet and backsheet – Safety requirements	27.160	2023-08
IEC/TS 62898-1 AMD 1	Microgrids – Part 1: Guidelines for microgrid projects planning and specification; Amendment 1	29.240.01	2023-08
IEC/TS 62898-1 Edition 1.1	Microgrids – Part 1: Guidelines for microgrid projects planning and specification	29.240.01	2023-08
IEC/TS 62898-3-3	Microgrids – Part 3-3: Technical requirements – Self-regulation of dispatchable loads	29.240.01	2023-08
IEC/TS 62898-3-4	Microgrids – Part 3-4: Technical requirements – Microgrid monitoring and control systems	29.240.01	2023-08
IEC 62899-202-9	Printed electronics – Part 202-9: Materials – Conductive ink – Printed patterns for mechanical test	31.180; 87.080	2023-08
IEC 62899-202-10	Printed electronics – Part 202-10: Materials – Resistance measurement method for thermoformable conducting layer	29.035.01; 31.180	2023-08
IEC 62973-5	Railway applications – Rolling stock – Batteries for auxiliary power supply systems – Part 5: Lithium-ion batteries	29.220.20; 45.060.01	2023-08
IEC/TS 62998-3	Safety of machinery – Safety-related sensors used for the protection of persons – Part 3: Sensor technologies and algorithms	13.110; 21.020	2023-08
IEC 63171-4 Corrigendum 1	Connectors for electrical and electronic equipment – Part 4: Detail specification for shielded or unshielded, free and fixed connectors with up to 8 ways for balanced single-pair data transmission with current carrying capacity – Mechanical mating information, pin assignment and additional requirements for Type 4; Corrigendum 1	31.220.10	2023-08
IEC 63190	Railway applications – Fixed installations – Electric traction – Copper and copper alloy catenary wires for overhead contact line systems	29.280; 45.060.01	2023-08
IEC/TR 63222-100	Power quality management – Part 100: Impact of power quality issues on electric equipment and power system	17.220.99; 29.020; 29.240.01	2023-08
IEC SRD 63273-1	Smart city use case collection and analysis – City information modelling – Part 1: High-level analysis	03.100.70; 13.020.20; 35.240.99	2023-08
IEC 63333	General method for assessing the proportion of reused components in products	13.020.01; 13.030.50; 29.020; 31.020	2023-08
IEC 63376	Industrial facility energy management system (FEMS) – Functions and information flows	03.100.70; 29.240.01	2023-08
IEC/TR 63415	Nuclear Power plants – Instrumentation and control systems – Use of formal security models for I&C security architecture design and assessment	27.120.20; 35.030	2023-08
IEC/IEEE 80005-1 AMD 2	Utility connections in port – Part 1: High voltage shore connection (HVSC) systems – General requirements; Amendment 2	47.020.60	2023-08
IEC/IEEE 80005-1 Edition 2.2	Utility connections in port – Part 1: High voltage shore connection (HVSC) systems – General requirements	47.020.60	2023-08
ISO/IEC 5021-2	Telecommunications and information exchange between systems – Wireless LAN access control – Part 2: Dispatching platform	35.110	2023-08
ISO/IEC 5087-1	Information technology – City data model – Part 1: Foundation level concepts	13.020.20; 35.240.99	2023-08
ISO/IEC 6523-1	Information technology – Structure for the identification of organizations and organization parts – Part 1: Identification of organization identification schemes	35.040.50	2023-08
ISO/IEC 9797-1 AMD 1	Information technology – Security techniques – Message Authentication Codes (MACs) – Part 1: Mechanisms using a block cipher – Amendment 1	35.030	2023-08
ISO/IEC 23001-7	Information technology – MPEG systems technologies – Part 7: Common encryption in ISO base media file format files	35.040.40	2023-08

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ISO/IEC 23090-12	Information technology – Coded representation of immersive media – Part 12: MPEG immersive video	35.040.40	2023-08
ISO/IEC 23094-1 AMD 1	Information technology – General video coding – Part 1: Essential video coding – Amendment 1: Green metadata supplemental enhancement information	35.040.40	2023-08
ISO/IEC 23837-1	Information security – Security requirements, test and evaluation methods for quantum key distribution – Part 1: Requirements	35.030	2023-08
ISO/IEC 24029-2	Artificial intelligence (AI) – Assessment of the robustness of neural networks – Part 2: Methodology for the use of formal methods	35.020	2023-08
ISO/IEC TS 27560	Privacy technologies – Consent record information structure	35.030	2023-08
ISO/IEC 30107-1	Information technology – Biometric presentation attack detection – Part 1: Framework	35.240.15	2023-08
ISO/IEC 39794-4 AMD 1	Information technology – Extensible biometric data interchange formats – Part 4: Finger image data – Amendment 1: Extension towards improved interoperability with ANSI/NIST-ITL	35.240.15	2023-08