

# 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 četiri načina:

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

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

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

HRN EN ISO 12625-17:2021 en pr  
Tanki upijajući papir (tissue) i proizvodi od tankog upijajućeg papira – 17. dio: Određivanje raspada u vodi (ISO 12625-17:2021; EN ISO 12625-17:2021)  
Tissue paper and tissue products – Part 17: Determination of disintegration in water (ISO 12625-17:2021; EN ISO 12625-17:2021)

### HZN/TO 8, *Brodogradnja*

HRN EN ISO 13297:2021 en pr  
Mala plovila – Električni sustavi – Instalacije za izmjeničnu i istosmjernu struju (ISO 13297:2020; EN ISO 13297:2021)  
Small craft – Electrical systems – Alternating and direct current installations (ISO 13297:2020; EN ISO 13297:2021)

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

HRN EN 13565-2:2019/Ispr.1:2021 en pr  
Stabilni protupožarni sustavi – Sustavi s pjenom – 2. dio: Projektiranje, izvedba i održavanje (EN 13565-2:2018+AC:2019/AC:2021)  
Fixed firefighting systems – Foam systems – Part 2: Design, construction and maintenance (EN 13565-2:2018+AC:2019/AC:2021)

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

HRN EN ISO 8437-1:2021 en pr  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 1. dio: Nazivlje i opća ispitivanja (ISO 8437-1:2019; EN ISO 8437-1:2021)  
Snow throwers – Safety requirements and test procedures – Part 1: Terminology and common tests (ISO 8437-1:2019; EN ISO 8437-1:2021)

HRN EN ISO 8437-2:2021 en pr  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 2. dio: Ručno upravljani bacači snijega (ISO 8437-2:2019; EN ISO 8437-2:2021)  
Snow throwers – Safety requirements and test procedures – Part 2: Pedestrian controlled snow throwers (ISO 8437-2:2019; EN ISO 8437-2:2021)

HRN EN ISO 8437-3:2021 en pr  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 3. dio: Bacači snijega na kojima se sjedi (ISO 8437-3:2019; EN ISO 8437-3:2021)  
Snow throwers – Safety requirements and test procedures – Part 3: Ride-on snow throwers (ISO 8437-3:2019; EN ISO 8437-3:2021)

HRN EN ISO 8437-4:2021 en pr  
Bacači snijega – Sigurnosni zahtjevi i postupci ispitivanja – 4. dio: Dodatni nacionalni i regionalni zahtjevi (ISO 8437-4:2019; EN ISO 8437-4:2021)  
Snow throwers – Safety requirements and test procedures – Part 4: Additional national and regional requirements (ISO 8437-4:2019; EN ISO 8437-4:2021)

HRN EN ISO 28139:2021 en pr  
Oprema za zaštitu bilja – Ledno nosivi zamagljivači pokretani motorima s unutrašnjim izgaranjem – Zahtjevi s obzirom na sigurnost i okoliš i metode ispitivanja (ISO 28139:2019; EN ISO 28139:2021)  
Equipment for crop protection – Knapsack combustion engine-driven airblast sprayers – Safety and environmental requirements and test methods (ISO 28139:2019; EN ISO 28139:2021)

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

HRN EN ISO 13736:2021 en pr  
Određivanje točke paljenja – Metoda zatvorene posude po Abelu (ISO 13736:2021; EN ISO 13736:2021)  
Determination of flash point – Abel closed-cup method (ISO 13736:2021; EN ISO 13736:2021)

### HZN/TO 43, *Akustika*

HRN ISO 8297:2000/A1:2021 en pr  
Akustika – Određivanje razina zvučne snage industrijskih postrojenja s više izvora radi utvrđivanja razina zvučnog tlaka u okolišu – Inženjerska metoda (ISO 8297:1994/Amd 1:2021)  
Acoustics – Determination of sound power levels of multisource industrial plants for evaluation of sound pressure levels in the environment – Engineering method (ISO 8297:1994/Amd 1:2021)

HRN EN ISO 10140-2:2021 en pr  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 2. dio: Mjerenje zračne zvučne izolacije (ISO 10140-2:2021; EN ISO 10140-2:2021)  
Acoustics – Laboratory measurement of sound insulation of building elements – Part 2: Measurement of airborne sound insulation (ISO 10140-2:2021; EN ISO 10140-2:2021)

HRN EN ISO 10140-3:2021 en pr  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 3. dio: Mjerenje udarne zvučne izolacije (ISO 10140-3:2021; EN ISO 10140-3:2021)  
Acoustics – Laboratory measurement of sound insulation of building elements – Part 3: Measurement of impact sound insulation (ISO 10140-3:2021; EN ISO 10140-3:2021)

HRN EN ISO 10140-4:2021 en pr  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 4. dio: Mjerni postupci i zahtjevi (ISO 10140-4:2021; EN ISO 10140-4:2021)  
Acoustics – Laboratory measurement of sound insulation of building elements – Part 4: Measurement procedures and requirements (ISO 10140-4:2021; EN ISO 10140-4:2021)

HRN EN ISO 10140-5:2021 en pr  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 5. dio: Zahtjevi za ispitne objekte i opremu (ISO 10140-5:2021; EN ISO 10140-5:2021)  
Acoustics – Laboratory measurement of sound insulation of building elements – Part 5: Requirements for test facilities and equipment (ISO 10140-5:2021; EN ISO 10140-5:2021)

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

HRN EN ISO 3834-2:2021 en pr  
Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 2. dio: Sveobuhvatni zahtjevi za kvalitetu (ISO 3834-2:2021; EN ISO 3834-2:2021)  
Quality requirements for fusion welding of metallic materials – Part 2: Comprehensive quality requirements (ISO 3834-2:2021; EN ISO 3834-2:2021)

HRN EN ISO 3834-3:2021 en pr  
Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 3. dio: Standardni zahtjevi za kvalitetu (ISO 3834-3:2021; EN ISO 3834-3:2021)  
Quality requirements for fusion welding of metallic materials – Part 3: Standard quality requirements (ISO 3834-3:2021; EN ISO 3834-3:2021)

HRN EN ISO 3834-4:2021 en pr  
Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 4. dio: Osnovni zahtjevi za kvalitetu (ISO 3834-4:2021; EN ISO 3834-4:2021)  
Quality requirements for fusion welding of metallic materials – Part 4: Elementary quality requirements (ISO 3834-4:2021; EN ISO 3834-4:2021)

HRN EN ISO 8205:2021 en pr  
Oprema za elektrootporno zavarivanje – Vodom hlađeni sekundarni provodnici (ISO 8205:2021; EN ISO 8205:2021)  
Resistance welding equipment – Water-cooled secondary connection cables (ISO 8205:2021; EN ISO 8205:2021)

HRN EN ISO 12671:2021 en pr  
Toplinsko naštrcavanje – Toplinski naštrcane prevlake – Simbolički prikaz na crtežima (ISO 12671:2021; EN ISO 12671:2021)  
Thermal spraying – Thermally sprayed coatings – Symbolic representation on drawings (ISO 12671:2021; EN ISO 12671:2021)

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

HRS ISO/TS 16175-2:2021 en pr  
Informacije i dokumentacija – Procesi i funkcionalni zahtjevi za programsku podršku za upravljanje zapisima – 2. dio: Upute za odabir, oblikovanje, primjenu i održavanje programske podrške za upravljanje zapisima (ISO/TS 16175-2:2020)  
Information and documentation – Processes and functional requirements for software for managing records – Part 2: Guidance for selecting, designing, implementing and maintaining software for managing records (ISO/TS 16175-2:2020)

HRI ISO/TR 22038:2021 en pr  
Informacije i dokumentacija – Opis i oblikovanje podataka o pravima (ISO/TR 22038:2020)  
Information and documentation – Description and presentation of rights information (ISO/TR 22038:2020)

#### **HZN/TO 120, Koža i obuća**

HRN EN ISO 16181-1:2021 en pr  
Obuća – Kritične tvari potencijalno prisutne u obući i dijelovima obuće – 1. dio: Određivanje ftalata u materijalima za obuću ekstrakcijom otapalima (ISO 16181-1:2021; EN ISO 16181-1:2021)  
Footwear – Critical substances potentially present in footwear and footwear components – Part 1: Determination of phthalate with solvent extraction (ISO 16181-1:2021; EN ISO 16181-1:2021)

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

HRN EN ISO 19223:2021 en pr  
Plućni ventilatori i srodna oprema – Terminološki rječnik i semantika (ISO 19223:2019; EN ISO 19223:2021)  
Lung ventilators and related equipment – Vocabulary and semantics (ISO 19223:2019; EN ISO 19223:2021)

HRN EN ISO 80601-2-85:2021 en pr  
Medicinska električna oprema – Dio 2-85: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke cerebralnih oksimetara (ISO 80601-2-85:2021; EN ISO 80601-2-85:2021)  
Medical electrical equipment – Part 2-85: Particular requirements for basic safety and essential performance of cerebral tissue oximeter equipment (ISO 80601-2-85:2021; EN ISO 80601-2-85:2021)

HRN EN ISO 80601-2-87:2021 en pr  
Medicinska električna oprema – Dio 2-87: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke visokofrekvencijskih respiratora (ISO 80601-2-87:2021; EN ISO 80601-2-87:2021)  
Medical electrical equipment – Part 2-87: Particular requirements for basic safety and essential performance of high-frequency ventilators (ISO 80601-2-87:2021; EN ISO 80601-2-87:2021)

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

HRN EN 12543-2:2021 en pr  
Nerazorno ispitivanje – Značajke fokusnih točaka u industrijskim rendgenskim sustavima za uporabu pri nerazornom ispitivanju – 2. dio: Radiografska metoda pomoću dijafragme s rupicom (EN 12543-2:2021)  
Non-destructive testing – Characteristics of focal spots in industrial X-ray systems for use in non-destructive testing – Part 2: Pinhole camera radiographic method (EN 12543-2:2021)

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

HRN EN ISO 11298-4:2021 en pr  
Plastični cijevni sustavi za obnavljanje podzemnih vodovodnih distribucijskih mreža – 4. dio: Oblaganje nanošenjem strukturiranih duromernih slojeva na terenu (ISO 11298-4:2021; EN ISO 11298-4:2021)  
Plastics piping systems for renovation of underground water supply networks – Part 4: Lining with cured-in-place pipes (ISO 11298-4:2021; EN ISO 11298-4:2021)

#### **HZN/TO 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja**

HRN EN 17233:2021 en pr  
Kvaliteta vode – Smjernice za procjenu učinkovitosti i drugih parametara različitih ribljih staza uporabom telemetrije (EN 17233:2021)  
Water quality – Guidance for assessing the efficiency and related metrics of fish passage solutions using telemetry (EN 17233:2021)

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

HRN EN 81-70:2021 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 70. dio: Pristupačnost dizalima za osobe s posebnim potrebama (EN 81-70:2021)  
Safety rules for the construction and installation of lifts – Particular applications for passenger and goods passenger lift – Part 70: Accessibility to lifts for persons including persons with disability (EN 81-70:2021)

HRN EN 115-2:2021 en pr  
Sigurnost pokretnih stuba i pokretnih traka – 2. dio: Pravila za poboljšanje sigurnosti postojećih pokretnih stuba i pokretnih traka (EN 115-2:2021)  
Safety of escalators and moving walks – Part 2: Rules for the improvement of safety of existing escalators and moving walks (EN 115-2:2021)

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

HRN EN 71-3:2021 en pr  
Sigurnost igračkaka – 3. dio: Otpuštanje određenih elemenata (EN 71-3:2019+A1:2021)  
Safety of toys – Part 3: Migration of certain elements (EN 71-3:2019+A1:2021)

HRN EN 71-13:2021 en pr  
Sigurnost igračkaka – 13. dio: Mirisne ploče za igru, kozmetički setovi i setovi za kušanje (EN 71-13:2021)  
Safety of toys – Part 13: Olfactory board games, cosmetic kits and gustative games (EN 71-13:2021)

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

HRN EN ISO 19148:2021 en pr  
Geoinformacije – Linearno referenciranje (ISO 19148:2021; EN ISO 19148:2021)  
Geographic information – Linear referencing (ISO 19148:2021; EN ISO 19148:2021)

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

HRN EN ISO 23903:2021 en pr  
Zdravstvena informatika – Referentna arhitektura interoperabilnosti i integracije – Model i okvir (ISO 23903:2021; EN ISO 23903:2021)  
Health Informatics – Interoperability and integration reference architecture – Model and framework (ISO 23903:2021; EN ISO 23903:2021)

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

HRN EN 13647:2021 en pr  
Drvene podne obloge i drvene obloge za zidove i stropove – Određivanje geometrijskih značajka (EN 13647:2021)  
Wood flooring and wood panelling and cladding – Determination of geometrical characteristics (EN 13647:2021)

HRN EN 17456:2021 en pr  
Drvene podne obloge i parket – Određivanje delaminacije gaznog sloja višeslojnih elemenata – Metoda ispitivanja (EN 17456:2021)  
Wood flooring and parquet – Determination of top layer delamination of multilayer elements – Test method (EN 17456:2021)

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

HRN EN 10216-5:2021 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 5. dio: Nehrdajuće čelične cijevi (EN 10216-5:2021)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes (EN 10216-5:2021)

HRN EN 10217-7:2021 en pr  
Zavarene čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 7. dio: Cijevi od nehrđajućih čelika (EN 10217-7:2021)  
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 7: Stainless steel tubes (EN 10217-7:2021)

HRN EN 10371:2021 en pr  
Metalni materijali – Metoda ispitivanja mikroutiskivanjem (EN 10371:2021)  
Metallic materials – Small punch test method (EN 10371:2021)

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

HRN EN ISO 4518:2021 en pr  
Metalne prevlake – Mjerenje debljine prevlake – Profilometrijska metoda (ISO 4518:2021; EN ISO 4518:2021)  
Metallic coatings – Measurement of coating thickness – Profilometric method (ISO 4518:2021; EN ISO 4518:2021)

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

HRN EN 437:2021 en pr  
Ispitni plinovi – Ispitni tlakovi – Kategorije uređaja (EN 437:2021)  
Test gases – Test pressures – Appliance categories (EN 437:2021)

HRN EN ISO 11960:2021 en pr  
Industrija nafte i prirodnoga plina – Čelične cijevi za upotrebu u bušotinama u svrhu zaštitnih (casing) ili uzlaznih (tubing) cijevi (ISO 11960:2020; EN ISO 11960:2021)  
Petroleum and natural gas industries – Steel pipes for use as casing or tubing for wells (ISO 11960:2020; EN ISO 11960:2021)

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

HRN EN 14730-2:2021 en pr  
Željeznički sustav – Željeznički gornji ustroj – Aluminotermijsko zavarivanje tračnica – 2. dio: Osposobljavanje zavarivača aluminotermijskim postupkom, odobravanje izvođača radova na zavarivanju i preuzimanje zavera (EN 14730-2:2021)  
Railway applications – Track – Aluminothermic welding of rails – Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds (EN 14730-2:2021)

## **HZN/TO 530, Remenski prijenosi, čelična užad, lanci, kuke za dizalice, trake, omče i pribor**

HRN EN 13411-9:2021 en pr  
Završetci čelične užadi – Sigurnost – 9. dio: Tvrdе užke (EN 13411-9:2021)  
Terminations for steel wire ropes – Safety – Part 9: Solid thimbles (EN 13411-9:2021)

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

HRN EN ISO 844:2021 en pr  
Kruta pjenasta plastika – Određivanje tlačnih svojstava (ISO 844:2021; EN ISO 844:2021)  
Rigid cellular plastics – Determination of compression properties (ISO 844:2021; EN ISO 844:2021)

HRS CEN/TS 17627:2021 en pr  
Plastika – Oporabljena plastika – Određivanje sadržaja čvrstih onečišćenja (CEN/TS 17627:2021)  
Plastics – Recycled plastics – Determination of solid contaminants content (CEN/TS 17627:2021)

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

HRN EN 13141-4:2021 en pr  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 4. dio: Aerodinamička, električna i akustička izvedba jednosmjernih ventilacijskih jedinica (EN 13141-4:2021)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 4: Aerodynamic, electrical power and acoustic performance of unidirectional ventilation units (EN 13141-4:2021)

HRN EN 13141-7:2021 en pr  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 7. dio: Ispitivanje značajka za kanalnu dobavnu i otsisnu ventilacijsku opremu (uključujući povrat topline) (EN 13141-7:2021)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 7: Performance testing of ducted mechanical supply and exhaust ventilation units (including heat recovery) (EN 13141-7:2021)

HRN EN 13142:2021 en pr  
Ventilacija u zgradama – Dijelovi/proizvodi za stambenu ventilaciju – Potrebne i izborne karakteristike značajka (EN 13142:2021)  
Ventilation for buildings – Components/products for residential ventilation – Required and optional performance characteristics (EN 13142:2021)

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

HRN EN ISO 6927:2021 en pr  
Brtvila u graditeljstvu – Terminološki rječnik (ISO 6927:2021; EN ISO 6927:2021)  
Buildings and civil engineering sealants – Vocabulary (ISO 6927:2021; EN ISO 6927:2021)

## **HZN/TO 552, Društvena odgovornost**

HRN ISO 37301:2021 en pr  
Sustavi upravljanja usklađenošću – Zahtjevi sa smjernicama za uporabu (ISO 37301:2021)  
Compliance management systems – Requirements with guidance for use (ISO 37301:2021)

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

HRN EN ISO 20417:2021 en pr  
Medicinski proizvodi – Informacije koje daje proizvođač (ISO 20417:2021; EN ISO 20417:2021)  
Medical Devices – Information to be provided by the manufacturer (ISO 20417:2021; EN ISO 20417:2021)

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

HRN EN ISO 22153:2021 en pr  
Električni pokretači za industrijske zaporne uređaje – Opći zahtjevi (ISO 22153:2020; EN ISO 22153:2021)  
Electric actuators for industrial valves – General requirements (ISO 22153:2020; EN ISO 22153:2021)

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

HRN ISO 105-F10:2003/A1:2021 en pr  
Tekstil – Ispitivanje postojanosti obojenja – Dio F10: Specifikacija za popratne tkanine: Multifilamentna vlakna (ISO 105-F10:1989/Amd 1:2009)  
Textiles – Tests for colour fastness – Part F10: Specification for adjacent fabric: Multifibre (ISO 105-F10:1989/Amd 1:2009)

HRN EN ISO 1140:2021 en pr  
Vlaknasta užad – Poliamidno vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1140:2021; EN ISO 1140:2021)  
Fibre ropes – Polyamide – 3-, 4-, 8- and 12-strand ropes (ISO 1140:2021; EN ISO 1140:2021)

HRN EN ISO 1141:2021 en pr  
Vlaknasta užad – Poliestersko vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1141:2021; EN ISO 1141:2021)  
Fibre ropes – Polyester – 3-, 4-, 8- and 12- strand ropes (ISO 1141:2021; EN ISO 1141:2021)

HRN EN ISO 1346:2021 en pr  
Vlaknasta užad – Polipropilensko vrpčasto vlakno, monofilament i multifilament (PP2) te polipropilensko vlakno visoke čvrstoće multifilament (PP3) – 3-, 4-, 8- i 12-struka užad (ISO 1346:2021; EN ISO 1346:2021)  
Fibre ropes – Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high-tenacity multifilament (PP3) – 3-, 4-, 8- and 12-strand ropes (ISO 1346:2021; EN ISO 1346:2021)

HRN ISO 2647:2021 en pr  
Vuna – Određivanje postotka meduliranih vlakana projekcijskim mikroskopom (ISO 2647:2020)  
Wool – Determination of percentage of medullated fibres by the projection microscope (ISO 2647:2020)

HRN ISO 2648:2021 en pr  
Vuna – Određivanje polidisperznosti duljine vlakana – Kapacitivna metoda (ISO 2648:2020)  
Wool – Determination of fibre length distribution parameters – Capacitance method (ISO 2648:2020)

HRN ISO 7211-5:2021 en pr  
Tekstil – Metode analize konstrukcija tkanine – 5. dio: Određivanje duljinske mase pređe iz tkanine (ISO 7211-5:2020)  
Textiles – Methods for analysis of woven fabrics construction – Part 5: Determination of linear density of yarn removed from fabric (ISO 7211-5:2020)

HRN ISO 7211-6:2021 en pr  
Tekstil – Metode analize konstrukcija tkanine – 6. dio: Određivanje mase osnovne i potke po jedinici površine tkanine (ISO 7211-6:2020)  
Textiles – Methods for analysis of woven fabrics construction – Part 6: Determination of the mass of warp and weft per unit area of fabric (ISO 7211-6:2020)

HRN ISO 16549:2021 en pr  
Tekstil – Nejednolikost tekstilnih niti – Kapacitivna metoda (ISO 16549:2021)  
Textiles – Unevenness of textile strands – Capacitance method (ISO 16549:2021)

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

HRN EN ISO 19085-12:2021 en pr  
Strojevi za obradu drva – Sigurnost – 12. dio: Strojevi za izradu rukavaca i profiliranje (ISO 19085-12:2021; EN ISO 19085-12:2021)  
Woodworking machines – Safety – Part 12: Tenoning/profiling machines (ISO 19085-12:2021; EN ISO 19085-12:2021)

#### **HZN/TO 567, Meso, proizvodi ribarstva i akvakultura**

HRN ISO 22948:2021 en pr  
Ugljični otisak za proizvodnju ribarstva – Pravila kategorizacije proizvoda ribarstva (CFP-PCR) (ISO 22948:2020)  
Carbon footprint for seafood – Product category rules (CFP-PCR) for finfish (ISO 22948:2020)

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

HRN EN ISO 15216-1:2017/A1:2021 en pr  
Mikrobiologija u lancu hrane – Horizontalna metoda za određivanje virusa hepatitisa A i norovirusa upotrebom RT-PCR u stvarnom vremenu – 1. dio: Metoda za kvantitativno određivanje (ISO 15216-1:2017/Amd 1:2021; EN ISO 15216-1:2017/A1:2021)  
Microbiology of the food chain – Horizontal method for determination of hepatitis A virus and norovirus using real-time RT-PCR – Part 1: Method for quantification (ISO 15216-1:2017/Amd 1:2021; EN ISO 15216-1:2017/A1:2021)

HRN EN 17203:2021 en pr  
Hrana – Određivanje citrinina u hrani metodom HPLC-MS/MS (EN 17203:2021)  
Foodstuffs – Determination of citrinin in food by HPLC-MS/MS (EN 17203:2021)

HRN EN 17425:2021 en pr  
Hrana – Određivanje ergot alkaloida u žitaricama i proizvodima od žitarica disperzivnom ekstrakcijom na čvrstoj fazi (dSPE) i HPLC-MS/MS (EN 17425:2021)  
Foodstuffs – Determination of ergot alkaloids in cereals and cereal products by dSPE clean-up and HPLC-MS/MS (EN 17425:2021)

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

HRN EN 17462:2021 en pr  
Hrana za životinje: Metode uzorkovanja i analize – Određivanje radionuklida Joda-131, Cezija-134 i Cezija-137 u hrani za životinje (EN 17462:2021)  
Animal feeding stuffs: Methods of sampling and analysis – Determination of the radionuclides Iodine-131, Caesium-134 and Caesium-137 in feed (EN 17462:2021)

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

HRN EN ISO 23266:2021 en pr  
Kvaliteta tla – Test za mjerenje inhibicije razmnožavanja grinja iz skupine Oribatidae (Oppia nitens) izloženih onečišćenjima u tlu (ISO 23266:2020; EN ISO 23266:2021)  
Soil quality – Test for measuring the inhibition of reproduction in oribatid mites (Oppia nitens) exposed to contaminants in soil (ISO 23266:2020; EN ISO 23266:2021)

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

HRN EN 50702:2021 en pr  
Željeznički sustav – Željeznička vozila – Oduzimači struje s vodljive tračnice (klizači): Karakteristike i ispitivanja (EN 50702:2021)  
Railway applications – Rolling stock – Conductor rail current collectors (shoegear): Characteristics and tests (EN 50702:2021)

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

HRN EN IEC 62052-11:2021 en pr  
Električna brojila za izmjeničnu struju – Opći zahtjevi, ispitivanja i ispitni uvjeti – 11. dio: Mjerna oprema (IEC 62052-11:2020; EN IEC 62052-11:2021)  
Electricity metering equipment – General requirements, tests and test conditions – Part 11: Metering equipment (IEC 62052-11:2020; EN IEC 62052-11:2021)

HRN EN IEC 62053-21:2021 en pr  
Električna brojila za izmjeničnu struju – Posebni zahtjevi – 21. dio: Statička brojila djelatne energije za izmjeničnu struju (razreda 0,5, 1 i 2) (IEC 62053-21:2020; EN IEC 62053-21:2021)  
Electricity metering equipment – Particular requirements – Part 21: Static meters for AC active energy (classes 0,5, 1 and 2) (IEC 62053-21:2020; EN IEC 62053-21:2021)

HRN EN IEC 62053-24:2021 en pr  
Električna brojila za izmjeničnu struju – Posebni zahtjevi – 24. dio: Statička brojila jalove energije za osnovne komponente (razreda 0,5 S, 1S, 1, 2 i 3) (IEC 62053-24:2020; EN IEC 62053-24:2021)  
Electricity metering equipment – Particular requirements – Part 24: Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020; EN IEC 62053-24:2021)

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

HRN EN IEC 60670-1:2021 en pr  
Kutije i kućišta za električni pribor za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (IEC 60670-1:2015; EN IEC 60670-1:2021)  
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements (IEC 60670-1:2015; EN IEC 60670-1:2021)

HRN EN IEC 60670-1:2021/A11:2021 en pr  
Kutije i kućišta za električni pribor za kućanstvo i slične fiksne električne instalacije – 1. dio: Opći zahtjevi (EN IEC 60670-1:2021/A11:2021)  
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements (EN IEC 60670-1:2021/A11:2021)

HRN EN IEC 62020-1:2021 en pr  
Električni pribor – Monitori diferencijalne struje (RCM-i) – 1. dio: RCM-i za kućanstvo i slične primjene (IEC 62020-1:2020+Corr.1:2020; EN IEC 62020-1:2021)  
Electrical accessories – Residual current monitors (RCMs) – Part 1: RCMs for household and similar uses (IEC 62020-1:2020+Corr.1:2020; EN IEC 62020-1:2021)

HRN EN 62423:2012/A11:2021 en pr  
Strujne zaštitne sklopke tip F i tip B sa i bez združene nadstrujne zaštite za kućanstvo i slične primjene (EN 62423:2012/A11:2021)  
Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses (EN 62423:2012/A11:2021)

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

HRN EN 60400:2017/A1:2021 en pr  
Grla za fluorescentne cijevi i startere (IEC 60400:2017/am1:2020; EN 60400:2017/A1:2021)  
Lampholders for tubular fluorescent lamps and starterholders (IEC 60400:2017/am1:2020; EN 60400:2017/A1:2021)

HRN EN IEC 60598-2-1:2021 en pr  
Svjetiljke – Dio 2-1: Posebni zahtjevi – Fiksne svjetiljke za opću uporabu (IEC 60598-2-1:2020; EN IEC 60598-2-1:2021)  
Luminaires – Part 2-1: Particular requirements – Fixed general purpose luminaires (IEC 60598-2-1:2020; EN IEC 60598-2-1:2021)

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

HRN EN 50336:2021 en pr  
Provodni izolatori za transformatore i kabelaške kutije za prigušnice koji ne premašuju 36 kV (EN 50336:2021)  
Bushings for transformers and reactor cable boxes not exceeding 36 kV (EN 50336:2021)

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

HRN EN IEC/IEEE 60980-344:2021 en pr  
Nuklearna postrojenja – Oprema važna za sigurnost – Seizmička kvalifikacija (IEC/IEEE 60980-344:2020; EN IEC/IEEE 60980-344:2021)  
Nuclear facilities – Equipment important to safety – Seismic qualification (IEC/IEEE 60980-344:2020; EN IEC/IEEE 60980-344:2021)

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

HRN EN IEC 61968-13:2021 en pr  
Integracija aplikacija u elektroprivredi – Sučelja za sustave upravljanja u distribuciji – 13. dio: Profili zajedničkog modela za distribuciju energetskog sustava (IEC 61968-13:2021; EN IEC 61968-13:2021)  
Application integration at electric utilities – System interfaces for distribution management – Part 13: Common distribution power system model profiles (IEC 61968-13:2021; EN IEC 61968-13:2021)

HRN EN IEC 61970-457:2021 en pr  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 457. dio: Dinamički profil (IEC 61970-457:2021; EN IEC 61970-457:2021)  
Energy Management System Application Program Interface (EMS-API) – Part 457: Dynamics profile (IEC 61970-457:2021; EN IEC 61970-457:2021)

HRN EN IEC 62325-451-7:2021 en pr  
Okvir za komunikaciju na tržištu električnom energijom – Dio 451-7: Postupci uravnoteženja, kontekstualni i skupni modeli za europsko tržište (IEC 62325-451-7:2021; EN IEC 62325-451-7:2021)  
Framework for energy market communications – Part 451-7: Balancing processes, contextual and assembly models for European style market (IEC 62325-451-7:2021; EN IEC 62325-451-7:2021)

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

HRN EN IEC 61851-21-2:2021 en pr  
Sustav kontaktnog punjenja električnih vozila – Dio 21-2: Zahtjevi za kontaktno spajanje električnog vozila na izmjenični/istosmjerni izvor – Zahtjevi za elektromagnetsku kompatibilnost sustava za punjenje izvan vozila (IEC 61851-21-2:2018; EN IEC 61851-21-2:2021)  
Electric vehicle conductive charging system – Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply – EMC requirements for off board electric vehicle charging systems (IEC 61851-21-2:2018; EN IEC 61851-21-2:2021)

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

HRN EN IEC 61472-2:2021 en pr  
Rad pod naponom – Minimalne udaljenosti približavanja – 2. dio: Metoda određivanja električne komponente udaljenosti za izmjenične sustave od 1,0 kV do 72,5 kV (IEC 61472-2:2021; EN IEC 61472-2:2021)  
Live working – Minimum approach distances – Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV (IEC 61472-2:2021; EN IEC 61472-2:2021)

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

HRN EN 50136-3:2013/A1:2021 en pr  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – 3. dio: Zahtjevi za primopredajnik prijemnog centra (RCT) (EN 50136-3:2013/A1:2021)  
Alarm systems – Alarm transmission systems and equipment – Part 3: Requirements for Receiving Centre Transceiver (RCT) (EN 50136-3:2013/A1:2021)

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

HRN EN IEC 63154:2021 en pr  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Kibernetička sigurnost – Opći zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 63154:2021; EN IEC 63154:2021)  
Maritime navigation and radiocommunication equipment and systems – Cybersecurity – General requirements, methods of testing and required test results (IEC 63154:2021; EN IEC 63154:2021)

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

HRN EN 50678:2020/Ispr.1:2021 en pr  
Opći postupak provjere učinkovitosti zaštitnih mjera na električnoj opremi nakon popravka (EN 50678:2020/AC:2021)  
General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair (EN 50678:2020/AC:2021)

HRN EN IEC 60051-2:2021 en pr  
Pokazni analogni električni mjerni instrumenti s izravnim djelovanjem i njihov pribor – 2. dio: Posebni zahtjevi za ampermetre i voltmetre (IEC 60051-2:2018; EN IEC 60051-2:2021)  
Direct acting indicating analogue electrical measuring instruments and their accessories – Part 2: Special requirements for ammeters and voltmeters (IEC 60051-2:2018; EN IEC 60051-2:2021)

HRN EN IEC 60051-3:2021 en pr  
Pokazni analogni električni mjerni instrumenti s izravnim djelovanjem i njihov pribor – 3. dio: Posebni zahtjevi za vatmetre i varmetre (IEC 60051-3:2018; EN IEC 60051-3:2021)  
Direct acting indicating analogue electrical measuring instruments and their accessories – Part 3: Special requirements for wattmeters and varmeters (IEC 60051-3:2018; EN IEC 60051-3:2021)

HRN EN IEC 60051-4:2021 en pr  
Pokazni analogni električni mjerni instrumenti s izravnim djelovanjem i njihov pribor – 4. dio: Posebni zahtjevi za mjerila frekvencije (IEC 60051-4:2018; EN IEC 60051-4:2021)  
Direct acting indicating analogue electrical measuring instruments and their accessories – Part 4: Special requirements for frequency meters (IEC 60051-4:2018; EN IEC 60051-4:2021)

HRN EN IEC 60051-9:2021 en pr  
Pokazni analogni električni mjerni instrumenti s izravnim djelovanjem i njihov pribor – 9. dio: Preporučene metode ispitivanja (IEC 60051-9:2019; EN IEC 60051-9:2021)  
Direct acting indicating analogue electrical-measuring instruments and their accessories – Part 9: Recommended test methods (IEC 60051-9:2019; EN IEC 60051-9:2021)

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

HRN EN IEC 62680-1-2:2021 en pr  
Sučelja univerzalnih serijskih sabirnica za podatke i napajanje – Dio 1-2: Opći dijelovi – Specifikacija USB-a za isporuku energije (IEC 62680-1-2:2021; EN IEC 62680-1-2:2021)  
Universal serial bus interfaces for data and power – Part 1-2: Common components – USB Power Delivery specification (IEC 62680-1-2:2021; EN IEC 62680-1-2:2021)

HRN EN IEC 63245-1:2021 en pr  
Prostorni bežični prijenos energije zasnovan na višestrukim magnetskim rezonancijama – 1. dio: Zahtjevi (IEC 63245-1:2021; EN IEC 63245-1:2021)  
Spatial wireless power transfer based on multiple magnetic resonances – Part 1: Requirements (IEC 63245-1:2021; EN IEC 63245-1:2021)

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

HRN EN IEC 60216-3:2021 en pr  
Električni izolacijski materijali – Svojstva toplinske izdržljivosti – 3. dio: Upute za izračunavanje karakteristika toplinske izdržljivosti (IEC 60216-3:2021; EN IEC 60216-3:2021)  
Electrical insulating materials – Thermal endurance properties – Part 3: Instructions for calculating thermal endurance characteristics (IEC 60216-3:2021; EN IEC 60216-3:2021)

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

HRN EN 61000-4-30:2015/A1:2021 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 4-30: Ispitne i mjerne tehnike – Metode mjerenja kvalitete električne energije (IEC 61000-4-30:2015/am1:2021; EN 61000-4-30:2015/A1:2021)  
Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods (IEC 61000-4-30:2015/am1:2021; EN 61000-4-30:2015/A1:2021)

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

HRN EN 50600-2-1:2021 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 2-1: Konstrukcija zgrade (EN 50600-2-1:2021)  
Information technology – Data centre facilities and infrastructures – Part 2-1: Building construction (EN 50600-2-1:2021)

HRN EN 50600-2-5:2021 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – Dio 2-5: Sigurnosni sustavi (EN 50600-2-5:2021)  
Information technology – Data centre facilities and infrastructures – Part 2-5: Security systems (EN 50600-2-5:2021)

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

HRN EN ISO/IEC 27701:2021 en pr  
Sigurnosne tehnike – Proširenje ISO/IEC 27001 i ISO/IEC 27002 za upravljanje osobnim podacima – Zahtjevi i smjernice (ISO/IEC 27701:2019; EN ISO/IEC 27701:2021)  
Security techniques – Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management – Requirements and guidelines (ISO/IEC 27701:2019; EN ISO/IEC 27701:2021)

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

HRN EN ISO 11124-5:2021 en pr  
Priprema čeličnih podloga prije nanošenja boja i srodnih proizvoda – Specifikacije metalnih abraziva za čišćenje mlazom – 5. dio: Rezano čelične žice (ISO 11124-5:2019; EN ISO 11124-5:2021)  
Preparation of steel substrates before application of paints and related products – Specifications for metallic blast-cleaning abrasives – Part 5: Cut steel wire (ISO 11124-5:2019; EN ISO 11124-5:2021)

HRN EN 16274:2021 en pr  
Metode za analizu alergena – Određivanje količine alergena prema proširenom popisu 57 potencijalnih alergena u uzorcima mirisa spremnim za ubrizgavanje plinskom kromatografijom i spektrometrijom masa (EN 16274:2021)  
Method for Analysis of Allergens – Quantification of an extended list of 57 suspected allergens in ready to inject fragrance materials by gas chromatography mass spectrometry (EN 16274:2021)

HRN EN ISO 28199-1:2021 en pr  
Boje i lakovi – Procjena svojstava prekrivnih sustava s obzirom na postupak nanošenja – 1. dio: Terminološki rječnik i priprema ispitnih ploča (ISO 28199-1:2021; EN ISO 28199-1:2021)  
Paints and varnishes – Evaluation of properties of coating systems related to the spray application process – Part 1: Vocabulary and preparation of test panels (ISO 28199-1:2021; EN ISO 28199-1:2021)

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

HRN EN ISO 17254:2016/A1:2021 en pr  
Stomatologija – Spiralne opruge za upotrebu u ortodontici (ISO 17254:2016/Amd 1:2020; EN ISO 17254:2016/A1:2021)  
Dentistry – Coiled springs for use in orthodontics (ISO 17254:2016/Amd 1:2020; EN ISO 17254:2016/A1:2021)

HRN EN ISO 21801-1:2021 en pr  
Pristupačnost za osobe s kognitivnim teškoćama – 1. dio: Opće smjernice (ISO 21801-1:2020; EN ISO 21801-1:2021)  
Cognitive accessibility – Part 1: General guidelines (ISO 21801-1:2020; EN ISO 21801-1:2021)

HRN EN ISO 23450:2021 en pr  
Stomatologija – Intraoralna kamera (ISO 23450:2021; EN ISO 23450:2021)  
Dentistry – Intraoral camera (ISO 23450:2021; EN ISO 23450:2021)

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

HRN EN 3475-512:2021 en pr  
Zrakoplovstvo – Električni kabeli za upotrebu u zrakoplovstvu – Metode ispitivanja – 512. dio: Izdržljivost pri savijanju (EN 3475-512:2021)  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 512: Flexure endurance (EN 3475-512:2021)

HRN EN 4825:2021 en pr  
Zrakoplovstvo – Čelik X12CrNiMoV12-3 (1.4938) – Taljen na zraku i pretopljen elektrodom za zavarivanje – Poboļišan – Šipke – De ≤ 150 mm – 900 MPa ≤ Rm ≤ 1 100 MPa (EN 4825:2021)  
Aerospace series – Steel X12CrNiMoV12-3 (1.4938) – Air melted and consumable electrode remelted – Hardened and tempered – Bars – De ≤ 150 mm – 900 MPa ≤ Rm ≤ 1 100 MPa (EN 4825:2021)

HRN EN 6099:2021 en pr  
Zrakoplovstvo – Šipka s kuglastim kliznim ležajem na kraju, metal na metal – Tehnička specifikacija (EN 6099:2021)  
Aerospace series – Rod-end, spherical, plain bearing, metal to metal – Technical specification (EN 6099:2021)

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

HRN EN IEC 60068-2-11:2021 en pr  
Ispitivanje utjecaja okoliša – Dio 2-11: Ispitivanja – Ka ispitivanje: Slana magla (IEC 60068-2-11:2021; EN IEC 60068-2-11:2021)  
Environmental testing – Part 2-11: Tests – Test Ka: Salt mist (IEC 60068-2-11:2021; EN IEC 60068-2-11:2021)

HRN EN IEC 60068-2-13:2021 en pr  
Ispitivanje utjecaja okoliša – Dio 2-13: Ispitivanja – M ispitivanje: Niski tlak zraka (IEC 60068-2-13:2021; EN IEC 60068-2-13:2021)  
Environmental testing – Part 2-13: Tests – Test M: Low air pressure (IEC 60068-2-13:2021; EN IEC 60068-2-13:2021)

HRN EN IEC 60068-2-38:2021 en pr  
Ispitivanje utjecaja okoliša – Dio 2-38: Ispitivanja – Z/AD ispitivanje: Složeno cikličko ispitivanje uz promjene temperature/vlažnosti (IEC 60068-2-38:2021; EN IEC 60068-2-38:2021)  
Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:2021; EN IEC 60068-2-38:2021)



## HZN/TU V1, Elektronika 1

HRN EN 50290-2-24:2021 en pr  
Komunikacijski kabeli – Dio 2-24: Opća pravila konstruiranja i izrada – Polietilenske smjese za oblaganje (EN 50290-2-24:2021)  
Communication cables – Part 2-24: Common design rules and construction – Polyethylene sheathing compounds (EN 50290-2-24:2021)

HRN EN 50290-2-27:2021 en pr  
Komunikacijski kabeli – Dio 2-27: Opća pravila konstruiranja i izrada – Smjese za oblaganje na bazi poliolefina bez halogena za kabele s poboljšanim svojstvima s obzirom na plamen i požar (HFFR) (EN 50290-2-27:2021)  
Communication cables – Part 2-27: Common design rules and construction – Halogen free polyolefin based sheathing compounds for cables having improved flame and fire properties (HFFR) (EN 50290-2-27:2021)

HRN EN IEC 60068-2-20:2021 en pr  
Ispitivanje utjecaja okoliša – Dio 2-20: Ispitivanja – Ispitivanje T: Metode ispitivanja lemljivosti i otpornosti uređaja s vodovima na toplinu lemjenja (IEC 60068-2-20:2021; EN IEC 60068-2-20:2021)  
Environmental testing – Part 2-20: Tests – Test T: Test methods for solderability and resistance to soldering heat of devices with leads (IEC 60068-2-20:2021; EN IEC 60068-2-20:2021)

HRN EN IEC 61010-2-091:2021 en pr  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku električnu opremu – Dio 2-091: Posebni zahtjevi za rendgenske sustave u kućištu (IEC 61010-2-091:2019; EN IEC 61010-2-091:2021)  
Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-091: Particular requirements for cabinet X-ray systems (IEC 61010-2-091:2019; EN IEC 61010-2-091:2021)

HRN EN IEC 61169-60:2021 en pr  
Radiofrekvencijski konektori – 60. dio: Sekcijska specifikacija za radiofrekvencijske koaksijalne konektore s utisnim spajanjem – Karakteristična impedancija 50 Ω (tip SMPM) (IEC 61169-60:2021; EN IEC 61169-60:2021)  
Radio-frequency connectors – Part 60: Sectional specification for RF coaxial connectors with push on mating – Characteristic impedance 50 Ohm (type SMPM) (IEC 61169-60:2021; EN IEC 61169-60:2021)

HRN EN IEC 61189-5-301:2021 en pr  
Metode ispitivanja za električne materijale, tiskane pločice i druge međusobno povezive strukture i sklopove – Dio 5-301: Opće metode ispitivanja za materijale i sklopove – Pasta za lemjenje sa sitnim česticama lema (IEC 61189-5-301:2021; EN IEC 61189-5-301:2021)  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-301: General test methods for materials and assemblies – Soldering paste using fine solder particles (IEC 61189-5-301:2021; EN IEC 61189-5-301:2021)

HRN EN IEC 61280-2-8:2021 en pr  
Metode ispitivanja svjetlovodnih komunikacijskih podsustava – Dio 2-8: Digitalni sustavi – Određivanje niske stope pogrešaka bita (BER) pomoću mjerenja Q-faktora (IEC 61280-2-8:2021; EN IEC 61280-2-8:2021)  
Fibre optic communication subsystem test procedures – Part 2-8: Digital systems – Determination of low BER using Q-factor measurements (IEC 61280-2-8:2021; EN IEC 61280-2-8:2021)

HRN EN IEC 61290-1-3:2021 en pr  
Optička pojačala – Metode ispitivanja – Dio 1-3: Parametri snage i pojačanja – Metoda optičkog mjerenja snage (IEC 61290-1-3:2021; EN IEC 61290-1-3:2021)  
Optical amplifiers – Test methods – Part 1-3: Power and gain parameters – Optical power meter method (IEC 61290-1-3:2021; EN IEC 61290-1-3:2021)

HRN EN IEC 61300-2-10:2021 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Osnovni postupci ispitivanja i mjerenja – Dio 2-10: Ispitivanja – Otpornost na drobljenje i opterećenje (IEC 61300-2-10:2021; EN IEC 61300-2-10:2021)  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-10: Tests – Crush and load resistance (IEC 61300-2-10:2021; EN IEC 61300-2-10:2021)

HRN EN IEC 61967-4:2021 en pr  
Integrirani krugovi – Mjerenja elektromagnetskog zračenja – 4. dio: Mjerenja provodne emisije – Metoda izravnog spajanja 1 Ω/150 Ω (IEC 61967-4:2021; EN IEC 61967-4:2021)  
Integrated circuits – Measurement of electromagnetic emissions – Part 4: Measurement of conducted emissions – 1 Ω/150 Ω direct coupling method (IEC 61967-4:2021; EN IEC 61967-4:2021)

HRN EN IEC 62148-15:2021 en pr  
Aktivne svjetlovodne komponente i uređaji – Norme za kućišta i sučelja – 15. dio: Diskretna kućišta za lasere s površinskim zračenjem s vertikalnim rezonatorom (IEC 62148-15:2021; EN IEC 62148-15:2021)  
Fibre optic active components and devices – Package and interface standards – Part 15: Discrete vertical cavity surface emitting laser packages (IEC 62148-15:2021; EN IEC 62148-15:2021)

HRN EN IEC 63171:2021 en pr  
Konektori za električnu i elektroničku opremu – Oklopljeni ili neoklopljeni slobodni i fiksni konektori za simetrični jednostruki prienos podataka sa strujnom opteretivosti – Opći zahtjevi i ispitivanja (IEC 63171:2021; EN IEC 63171:2021)  
Connectors for electrical and electronic equipment – Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current-carrying capacity – General requirements and tests (IEC 63171:2021; EN IEC 63171:2021)

## HZN/TU W1, Energetska elektrotehnika 1

HRN EN 50636-2-107:2015/A3:2021 en pr  
Sigurnost kućanskih i sličnih aparata – Dio 2-107: Posebni zahtjevi za robotske kosilice koje se napajaju iz baterije (EN 50636-2-107:2015/A3:2021)  
Safety of household and similar appliances – Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (EN 50636-2-107:2015/A3:2021)

HRN EN IEC 63210:2021 en pr  
Paralelni energetska kondenzatori samoobnovljivog tipa za sustave izmjenične struje nazivnog napona iznad 1 000 V (IEC 63210:2021; EN IEC 63210:2021)  
Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1 000 V (IEC 63210:2021; EN IEC 63210:2021)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

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

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

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

prEN 1591-1 en  
Flanges and their joints – Design rules for gasketed circular flange connections – Part 1: Calculation  
Prirubnice i njihovi spojevi – Pravila za projektiranje prirubničkih spojeva s kružnim prirubnicama i brtvljenjem – 1. dio: Proračun

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

ISO 2137:2020 en  
Petroleum products and lubricants – Determination of cone penetration of lubricating greases and petrolatum  
Naftni proizvodi i maziva – Određivanje penetracije mazivih masti i petrolata pomoću čunja

- ISO 6249:2021 en  
Petroleum products – Determination of thermal oxidation stability of gas turbine fuels  
Naftni proizvodi – Određivanje termičke oksidacijske stabilnosti goriva za plinske turbine
- ISO 6614:1994/AMD 1:2019 en  
Petroleum products – Determination of water separability of petroleum oils and synthetic fluids  
Naftni proizvodi – Određivanje odjeljivosti vode iz naftnih ulja i sintetičkih tekućina
- ISO 6743-6:2018 en  
Lubricants, industrial oils and related products (class L) – Classification – Part 6: Family C (gear systems)  
Maziva, industrijska ulja i srodni proizvodi (razred L) – Razredba – 6. dio: Podrazred C (sustavi zupčanika)
- ISO 8068:2006/Amd 1:2019 en  
Lubricants, industrial oils and related products (class L) – Family T (Turbines) – Specification for lubricating oils for turbines – Amendment 1: Filterability tests according to ISO 13357-1 and ISO 13357-2 – Requirements related to the stage of the test method  
Maziva, industrijska ulja i srodni proizvodi (razred L) – Podrazred T (turbine) – Specifikacija za ulja za podmazivanje turbina – Amandman 1: Ispitivanje filtriranosti sukladno ISO 13357-1 i ISO 13357-2 – Zahtjevi vezani uz stupanj ispitne metode
- ISO 12925-1:2018/Amd 1:2020 en  
Lubricants, industrial oils and related products (class L) – Family C (gears) – Part 1: Specifications for lubricants for enclosed gear systems – Amendment 1: Pour point, according to ISO 3016, of categories CKTG, CKES, CKPG and CKPR – Change of limits  
Maziva, industrijska ulja i srodni proizvodi (razred L) – Podrazred C (zupčanici) – 1. dio: Specifikacije maziva za podmazivanje zatvorenih zupčaničkih prijenosnika – Amandman 1: Točka tečenja sukladno ISO 3016, za tipove CKTG, CKES, CKPG i CKPR – Promjena graničnih vrijednosti
- ISO 13739:2020 en  
Petroleum products – Procedures for the transfer of bunkers to vessels  
Naftni proizvodi – Postupci pretakanja brodskih goriva u plovila
- prEN 15553 en  
Petroleum products and related materials – Determination of hydrocarbon types – Fluorescent indicator adsorption method  
Naftni proizvodi i srodni materijali – Određivanje vrste ugljikovodika – Adsorpcijska metoda fluorescentnim indikatorom

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

- prEN ISO 17636-1 en  
Non-destructive testing of welds – Radiographic testing – Part 1: X- and gamma-ray techniques with film (ISO/DIS 17636-1:2021)  
Nerazorno ispitivanje zavara – Radiografsko ispitivanje – 1. dio: Tehnike snimanja rendgenom i izotopom primjenom filma (ISO/DIS 17636-1:2021)

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

- ISO 3166-2:2020 en  
Codes for the representation of names of countries and their subdivisions – Part 2: Country subdivision code  
Kodovi za označavanje imena država i njihovih pokrajina – 2. dio: Kodovi državnih pokrajina
- ISO 3166-3:2020 en  
Codes for the representation of names of countries and their subdivisions – Part 3: Code for formerly used names of countries  
Kodovi za označavanje imena država i njihovih pokrajina – 3. dio: Kodovi bivših imena država
- ISO 3297:2020 en  
Information and documentation – International standard serial number (ISSN)  
Informacije i dokumentacija – Međunarodni standardni broj serijske publikacije (ISSN)

- ISO 14289-1:2014 en  
Document management applications – Electronic document file format enhancement for accessibility – Part 1: Use of ISO 32000-1 (PDF/UA-1)  
Aplikacije za upravljanje dokumentima – Poboljšanje formata datoteke elektroničkog dokumenta radi pristupačnosti – 1. dio: Uporaba ISO 32000-1 (PDF/UA-1)
- ISO 16175-1:2020 en  
Information and documentation – Processes and functional requirements for software for managing records – Part 1: Functional requirements and associated guidance for any applications that manage digital records  
Informacije i dokumentacija – Procesi i funkcionalni zahtjevi za programsku podršku za upravljanje zapisima – 1. dio: Funkcionalni zahtjevi i pridružene upute za aplikacije koje upravljaju digitalnim zapisima
- ISO 19005-2:2011 en  
Document management – Electronic document file format for long-term preservation – Part 2: Use of ISO 32000-1 (PDF/A-2)  
Upravljanje dokumentima – Format datoteke elektroničkog dokumenta za dugoročnu zaštitu – 2. dio: Uporaba ISO 32000-1 (PDF/A-2)
- ISO 19005-3:2012 en  
Document management – Electronic document file format for long-term preservation – Part 3: Use of ISO 32000-1 with support for embedded files (PDF/A-3)  
Upravljanje dokumentima – Format datoteke elektroničkog dokumenta za dugoročnu zaštitu – 3. dio: Uporaba ISO 32000-1 s podrškom za ugrađene datoteke (PDF/A-3)
- ISO 19005-4:2020 en  
Document management – Electronic document file format for long-term preservation – Part 4: Use of ISO 32000-2 (PDF/A-4)  
Upravljanje dokumentima – Format datoteke elektroničkog dokumenta za dugoročnu zaštitu – 4. dio: Uporaba ISO 32000-2 (PDF/A-4)

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

- prEN 14487-1 en  
Sprayed concrete – Part 1: Definitions, specifications and conformity  
Mlazni beton – 1. dio: Definicije, specifikacije i sukladnost
- prEN 14488-3 en  
Testing sprayed concrete – Part 3: Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens  
Ispitivanje mlaznoga betona – 3. dio: Čvrstoća na savijanje (prvi vrh, konačna i preostala) vlaknima ojačanog uzorka grede (mikroarmiranoga betona)

#### **HZN/TO 92, Zaštita od požara**

- EN 13823:2020/prA1 en  
Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item  
Ispitivanja reakcije na požar građevnih proizvoda – Građevni proizvodi osim podnih obloga izloženi termičkom opterećenju pojedinačno gorućeg elementa
- FprEN 15882-5 en  
Extended application of results from fire resistance tests for service installations – Part 5: Combined penetration seals  
Proširena primjena rezultata ispitivanja otpornosti na požar servisnih instalacija – 5. dio: Kombinirana penetracijska brtvila

#### **HZN/TO 120, Koža i obuća**

- prEN ISO 10195 en  
Leather – Chemical determination of chromium(VI) content in leather – Thermal pre-ageing of leather and determination of hexavalent chromium (ISO 10195:2018)
- prEN ISO 22517 en  
Leather – Chemical tests – Determination of pesticide residues content (ISO 22517:2019)

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

prEN ISO 18778 en

Respiratory equipment – Particular requirements for basic safety and essential performance of equipment for infant cardiorespiratory monitors (ISO/DIS 18778:2021)

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

ISO 4427-1:2019 en

Plastics piping systems for water supply and for drainage and sewerage under pressure – Polyethylene (PE) – Part 1: General

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 1. dio: Općenito

ISO 4427-2:2019 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi

ISO 4427-3:2019 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 3: Fittings

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 3. dio: Spojnice

ISO 4427-5:2019 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 5: Fitness for purpose of the system

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 5. dio: Prikladnost sustava za uporabu

ISO 4437-1:2014 en

Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 1: General

Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 1. dio: Općenito

ISO 4437-2:2014 en

Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 2: Pipes

Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 2. dio: Cijevi

ISO 4437-3:2014 en

Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 3: Fittings

Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 3. dio: Spojnice

ISO 4437-4:2015 en

Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 4: Valves

Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 4. dio: Ventili

ISO 4437-5:2014 en

Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 5: Fitness for purpose of the system

Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 5. dio: Prikladnost sustava za uporabu

ISO 10468:2018 en

Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the ring creep properties under wet or dry conditions

Staklom ojačane duromerne (GRP) cijevi – Određivanje obodne krutosti zbog pužanja

ISO 10471:2018 en

Glass-reinforced thermosetting plastics (GRP) pipes – Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions

Staklom ojačane duromerne (GRP) cijevi – Određivanje konačne dugotrajne savojne deformacije i konačnoga dugotrajnog relativnog obodnog progiba pri vlažnim uvjetima

ISO 12176-1:2017 en

Plastics pipes and fittings – Equipment for fusion jointing polyethylene systems – Part 1: Butt fusion

Plastične cijevi i spojnice – Oprema za spajanje polietilenskih sustava zavarivanjem – 1. dio: Sučeono zavarivanje

prEN 12201-1 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 1: General

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 1. dio: Općenito

prEN 12201-2 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi

prEN 12201-3 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 3: Fittings

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 3. dio: Spojnice

prEN 12201-4 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 4: Valves for water supply systems

prEN 12201-5 en

Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 5: Fitness for purpose of the system

Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 5. dio: Prikladnost sustava za uporabu

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

prEN ISO 9241-20 en

Ergonomics of human-system interaction – Part 20: An ergonomic approach to accessibility within the ISO 9241 series (ISO/DIS 9241-20:2021)

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

prEN ISO 12005 en

Lasers and laser-related equipment – Test methods for laser beam parameters – Polarization (ISO/DIS 12005:2021)

Laseri i pridružena oprema – Ispitne metode za parametre laserskog snopa – Polarizacija (ISO/DIS 12005:2021)

prEN ISO 13696 en

Optics and photonics – Test method for total scattering by optical components (ISO/DIS 13696:2021)

Optika i fotonika – Ispitne metode za ukupno raspršenje optičkih komponenti (ISO/DIS 13696:2021)

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

prEN 1467 en

Natural stone – Rough blocks – Requirements

Prirodni kamen – Sirovi blokovi – Zahtjevi

prEN 1468 en

Natural stone – Rough slabs – Requirements

Prirodni kamen – Sirove ploče – Zahtjevi

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

prEN ISO 3421 en

Petroleum and natural gas industries – Drilling and production equipment – Offshore conductor design, setting depth, and installation (ISO/DIS 3421:2021)

Industrija nafte i prirodnoga plina – Oprema za bušenje i proizvodnju – Projektiranje odobalnih vodilica, podešavanje dubine i ugradnja (ISO/DIS 3421:2021)

prEN ISO 13503-3 en

Petroleum and natural gas industries – Completion fluids and materials – Part 3: Testing of heavy brines (ISO/DIS 13503-3:2021)

Industrija nafte i prirodnoga plina – Materijali i fluidi za završno opremanje bušotine – 3. dio: Ispitivanje teške slane vode (ISO/DIS 13503-3:2021)

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

- prEN 13630-1 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 1: Requirements  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 1. dio: Zahtjevi
- prEN 13630-2 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 2: Determination of thermal stability of detonating cords and safety fuses  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 2. dio: Određivanje toplinske stabilnosti detonirajućih štapina i sporogorećih štapina
- prEN 13630-3 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 3: Determination of sensitiveness to friction of the core of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 3. dio: Određivanje osjetljivosti eksplozivnog punjenja detonirajućih štapina na trenje
- prEN 13630-4 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 4: Determination of sensitiveness to impact of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 4. dio: Određivanje osjetljivosti detonirajućih štapina na udar
- prEN 13630-5 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 5: Determination of resistance to abrasion of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 5. dio: Određivanje otpornosti detonirajućih štapina na abraziju
- prEN 13630-6 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 6: Determination of resistance to tension of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 6. dio: Određivanje otpornosti detonirajućih štapina na istezanje
- prEN 13630-7 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 7: Determination of reliability of initiation of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 7. dio: Određivanje pouzdanosti iniciranja detonirajućih štapina
- prEN 13630-8 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 8: Determination of resistance to water of detonating cords and safety fuses  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 8. dio: Određivanje vodootpornosti detonirajućih štapina i sporogorećih štapina
- prEN 13630-9 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 9: Determination of transmission of detonation from detonating cord to detonating cord  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 9. dio: Određivanje prijenosa detonacije detonirajućeg štapina
- prEN 13630-10 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 10: Determination of initiating capability of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 10. dio: Određivanje mogućnosti iniciranja detonirajućih štapina
- prEN 13630-11 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 11: Determination of velocity of detonation of detonating cords  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 11. dio: Određivanje brzine detonacije detonirajućih štapina
- prEN 13630-12 en  
Explosives for civil uses – Detonating cords and safety fuses – Part 12: Determination of burning duration of safety fuses  
Eksplzivni za civilnu uporabu – Detonirajući i sporogoreći štapini – 12. dio: Određivanje vremena gorenja sporogorećih štapina
- prEN 13631-1 en  
Explosives for civil uses – Explosives – Part 1: Requirements  
Eksplzivni za civilnu uporabu – Eksplzivni – 1. dio: Zahtjevi
- prEN 13631-2 en  
Explosives for civil uses – Explosives – Part 2: Determination of thermal stability of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 2. dio: Određivanje toplinske stabilnosti eksploziva
- prEN 13631-3 en  
Explosives for civil uses – Explosives – Part 3: Determination of sensitiveness to friction of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 3. dio: Određivanje osjetljivosti eksploziva na trenje
- prEN 13631-4 en  
Explosives for civil uses – Explosives – Part 4: Determination of sensitiveness to impact of explosives  
Eksplzivni za civilnu uporabu – Jaki eksplozivi – 4. dio: Određivanje osjetljivosti eksploziva na udar
- prEN 13631-5 en  
Explosives for civil uses – Explosives – Part 5: Determination of the resistance to water of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 5. dio: Određivanje vodootpornosti eksploziva
- prEN 13631-6 en  
Explosives for civil uses – Explosives – Part 6: Determination of the resistance to hydrostatic pressure of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 6. dio: Određivanje otpornosti na hidrostatski tlak eksploziva
- prEN 13631-7 en  
Explosives for civil uses – Explosives – Part 7: Determination of safety and reliability at extreme temperatures  
Eksplzivni za civilnu uporabu – Eksplzivni – 7. dio: Određivanje sigurnosti i pouzdanosti pri graničnim (ekstremnim) temperaturama
- prEN 13631-10 en  
Explosives for civil uses – Explosives – Part 10: Method for the verification of the means of initiation of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 10. dio: Metoda za potvrđivanje načina iniciranja eksploziva
- prEN 13631-11 en  
Explosives for civil uses – Explosives – Part 11: Determination of the transmission of detonation of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 11. dio: Određivanje prijenosa detonacije eksploziva
- prEN 13631-13 en  
Explosives for civil uses – Explosives – Part 13: Determination of density  
Eksplzivni za civilnu uporabu – Eksplzivni – 13. dio: Određivanje gustoće
- prEN 13631-14 en  
Explosives for civil uses – Explosives – Part 14: Determination of the velocity of detonation of explosives  
Eksplzivni za civilnu uporabu – Eksplzivni – 14. dio: Određivanje brzine detonacije eksploziva
- prEN 13763-2 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 2: Verification of thermal stability at high temperatures
- prEN 13763-3 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 3: Determination of sensitiveness to impact
- prEN 13763-4 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 4: Determination of resistance to abrasion of leading wires and shock tubes
- prEN 13763-5 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 5: Determination of resistance to cutting damage of leading wires and shock tubes

prEN 13763-6 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 6: Determination of resistance to cracking in low temperatures of leading wires

prEN 13763-7 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 7: Determination of the mechanical strength of leading wires, shock tubes, connections, crimps and closures

prEN 13763-8 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 8: Determination of the resistance to vibration

prEN 13763-9 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 9: Determination of resistance to bending of detonators

prEN 13763-11 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 11: Determination of resistance to damage by dropping of detonators and relays

prEN 13763-12 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 12: Determination of resistance to hydrostatic pressure  
Eksplozivi za civilnu uporabu – Detonatori i usporivači – 12. dio: Određivanje otpornosti na hidrostatski tlak

prEN 13763-13 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 13: Determination of resistance of electric detonators to electrostatic discharge

prEN 13763-15 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 15: Determination of equivalent initiating capability

prEN 13763-16 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 16: Determination of delay accuracy

prEN 13763-17 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 17: Determination of no-fire current of electric detonators

prEN 13763-18 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 18: Determination of series firing current of electric detonators

prEN 13763-19 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 19: Determination of firing impulse of electric detonators

prEN 13763-20 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 20: Determination of total electrical resistance of electric detonators

prEN 13763-21 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 21: Determination of flash-over voltage of electric detonators

prEN 13763-22 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 22: Determination of capacitance, insulation resistance and insulation breakdown of leading wires

prEN 13763-23 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 23: Determination of the shock-wave velocity of shock tube

prEN 13763-24 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 24: Determination of the electrical non-conductivity of shock tube

prEN 13763-25 en  
Explosives for civil uses – Detonators and detonating cord relays – Part 25: Determination of transfer capability of surface connectors, relays and coupling accessories

prEN 13857-1 en  
Explosives for civil uses – Part 1: Terminology  
Eksplozivi za civilnu uporabu – 1. dio: Nazivlje

prEN 13938-1 en  
Explosives for civil uses – Propellants and rocket propellants – Part 1: Requirements  
Eksplozivi za civilnu uporabu – Baruti i čvrsta raketna goriva – 1. dio: Zahtjevi

prEN 13938-2 en  
Explosives for civil uses – Propellants and rocket propellants – Part 2: Determination of resistance to electrostatic discharge  
Eksplozivi za civilnu uporabu – Baruti i čvrsta raketna goriva – 2. dio: Određivanje otpornosti na elektrostatičku energiju

prEN 13938-3 en  
Explosives for civil uses – Propellants and rocket propellants – Part 3: Determination of deflagration to detonation transition  
Eksplozivi za civilnu uporabu – Baruti i čvrsta raketna goriva – 3. dio: Određivanje prijelaza sagorijevanja u detonaciju

prEN 13938-4 en  
Explosives for civil uses – Propellants and rocket propellants – Part 4: Determination of burning rate under ambient conditions  
Eksplozivi za civilnu uporabu – Baruti i čvrsta raketna goriva – 4. dio: Određivanje brzine sagorijevanja pri atmosferskim uvjetima

prEN 13938-5 en  
Explosives for civil uses – Propellants and rocket propellants – Part 5: Determination of voids and fissures  
Eksplozivi za civilnu uporabu – Baruti i čvrsta raketna goriva – 5. dio: Određivanje šupljina i pukotina

prEN 13938-7 en  
Explosives for civil uses – Propellants and rocket propellants – Part 7: Determination of safe and reliable ignition and complete deflagration of black powder

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

FprCEN/TS 17659 en  
Design guideline for mechanically fastened roof waterproofing systems  
Smjernice za projektiranje mehanički pričvršćenih hidroizolacijskih sustava za pokrivanje krovova

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

EN 15723:2010/prA1 en  
Railway applications – Closing and locking devices for payload protecting devices against environmental influences – Requirements for durability, operation, indication, maintenance, recycling  
Željeznički sustav – Uređaji za zatvaranje i zabavljanje uređaja za zaštitu tereta od utjecaja okoliša – Zahtjevi za izdržljivost, rad, označavanje, održavanje i recikliranje

EN 15877-2:2013/prA1 en  
Railway applications – Markings of railway vehicles – Part 2: External markings on coaches, motive power units, locomotives and on track machines  
Željeznički sustav – Označavanje željezničkih vozila – 2. dio: Vanjsko označavanje teretnih, pogonskih jedinica, lokomotiva i pružnih strojeva

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

ISO 4301-2:2020 en  
Cranes – Classification – Part 2: Mobile cranes  
Granici – Podjela u pogonske skupine – 2. dio: Mobilni granici

ISO 7296-2:2020 en  
Cranes – Graphical symbols – Part 2: Mobile cranes  
Granici – Grafički simboli – 2. dio: Mobilni granici

ISO 8686-2:2018 en  
Cranes – Design principles for loads and load combinations – Part 2: Mobile cranes  
Granici – Proračunska opterećenja i njihove kombinacije – 2. dio: Mobilni granici

ISO 8686-3:2018 en  
Cranes – Design principles for loads and load combinations – Part 3: Tower cranes  
Granici – Proračunska opterećenja i njihove kombinacije – 3. dio: Toranjski granici

ISO 9942-3:2020 en  
Cranes – Information labels – Part 3: Tower cranes  
Granici – Identifikacijske oznake – 3. dio: Toranjski granici

ISO 10245-1:2021 en  
Cranes – Limiting and indicating devices – Part 1: General  
Granici – Uređaji za ograničavanje i signaliziranje – 1. dio: Općenito

ISO 10245-3:2019 en  
Cranes – Limiting and indicating devices – Part 3: Tower cranes  
Granici – Uređaji za ograničavanje i signaliziranje – 3. dio: Toranjski granici

prEN 13852-1 en  
Cranes – Offshore cranes – Part 1: General-purpose offshore cranes  
Granici – Odobalni granici – 1. dio: Odobalni granici opće namjene

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

prEN ISO 22007-2 en  
Plastics – Determination of thermal conductivity and thermal diffusivity – Part 2: Transient plane heat source (hot disc) method (ISO/DIS 22007-2:2021)  
Plastika – Određivanje toplinske vodljivosti i toplinske difuzivnosti – 2. dio: Metoda kratkotrajnoga površinskog izvora topline (vruća ploča) (ISO/DIS 22007-2:2021)

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

prEN 13084-9 en  
Free-standing chimneys – Part 9: Lifetime management – Monitoring, inspection, maintenance, remedial and reporting; Operations and actions required  
Samostojeći dimnjaci – 9. dio: Upravljanje životnim ciklusom – Nadzor, pregled, održavanje, sanacija i izvješćivanje; potrebni zahvati i radnje

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

EN 13941-1:2019/prA1 en  
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 1: Design  
Cijevi za daljinsko grijanje – Projektiranje i montaža toplinski izoliranih cijevnih sustava s jednom ili dvije cijevi za ukopane vrelododne mreže – 1. dio: Projektiranje

EN 13941-2:2019/prA1 en  
District heating pipes – Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks – Part 2: Installation  
Cijevi za daljinsko grijanje – Projektiranje i montaža toplinski izoliranih cijevnih sustava s jednom ili dvije cijevi za ukopane vrelododne mreže – 2. dio: Montaža

prEN ISO 24194 en  
Solar energy – Collector fields – Check of performance (ISO/DIS 24194:2021)  
Sunčeva energija – Kolektorska polja – Provjera značajki (ISO/DIS 24194:2021)

prEN ISO 29463-5 en  
High-efficiency filters and filter media for removing particles in air – Part 5: Test method for filter elements (ISO/DIS 29463-5:2021)  
Visokoučinkoviti filtri i filtarski mediji za odstranjivanje čestica iz zraka – 5. dio: Metoda ispitivanja filtarskih elemenata (ISO/DIS 29463-5:2021)

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

prEN ISO 10545-18 en  
Ceramic tiles – Part 18: Determination of Light Reflectance Value (LRV) (ISO/DIS 10545-18:2021)  
Keramičke pločice – 18. dio: Određivanje faktora refleksije (LRV) (ISO/DIS 10545-18:2021)

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

prEN ISO 20776-2 en  
Clinical laboratory testing and in vitro diagnostic test systems – Susceptibility testing of infectious agents and evaluation of performance of antimicrobial susceptibility test – Part 2: Evaluation of performance of antimicrobial susceptibility test devices against reference broth micro-dilution (ISO/DIS 20776-2:2021)

prEN ISO 20916 en  
In vitro diagnostic medical devices – Clinical performance studies using specimens from human subjects – Good study practice (ISO 20916:2019)

### **HZN/TO 557, *Zaštitna odjeća***

prEN ISO 11610 en  
Protective clothing – Vocabulary (ISO/DIS 11610:2021)  
Zaštitna odjeća – Rječnik (ISO/DIS 11610:2021)

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

prEN ISO 28921-1 en  
Industrial valves – Isolating valves for low-temperature applications – Part 1: Design, manufacturing and production testing (ISO/DIS 28921-1:2021)  
Industrijski zaporni uređaji – Zaporni uređaji za odvajanje za primjenu pri niskim temperaturama – 1. dio: Projektiranje, izrada i ispitivanje proizvodnje (ISO/DIS 28921-1:2021)

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

prEN ISO 13338 en  
Gas cylinders – Gases and gas mixtures – Determination of corrosiveness for the selection of cylinder valve outlet (ISO/DIS 13338:2021)  
Plinske boce – Plinovi i plinske mješavine – Određivanje korozivnog djelovanja na tkiva radi odabira priključaka ventila na bocu (ISO/DIS 13338:2021)

prEN ISO 14246 en  
Gas cylinders – Cylinder valves – Manufacturing tests and examinations (ISO/DIS 14246:2021)  
Plinske boce – Ventili boca – Proizvodna ispitivanja i pregledi (ISO/DIS 14246:2021)

prEN ISO 22434 en  
Gas cylinders – Inspection and maintenance of valves (ISO/DIS 22434:2021)  
Plinske boce – Pregled i održavanje ventila boca (ISO/DIS 22434:2021)

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

prEN 17229-2 en  
Fitness centres – Requirements for centre amenities and operation – Part 2: Requirements for supervision and staff

prEN ISO 23659 en  
Sports and recreational facilities – Trampoline parks – Safety requirements (ISO/DIS 23659:2021)

### **HZN/TO E20, *Električni kabeli***

prHD 604-S2 en  
0,6/1,0 kV power cables with special fire performance for use in power stations and similar installations

EN 50525-1:2011/prA1:2021 en  
Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) – Part 1: General requirements  
Električni kabeli – Niskonaponski energetski kabeli nazivnog napona do i uključivo 450/750 V (U0/U) – 1. dio: Opći zahtjevi

EN IEC 60230:2018/prA1:2021 en  
Impulse tests on cables and their accessories (IEC 60230:2018/am1:202X)  
Ispitivanja udarnim naponom za kabele i kabelski pribor (IEC 60230:2018/am1:202X)

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

EN IEC 60598-1:2021/prAA en  
Luminaires – Part 1: General requirements and tests  
Svjetiljke – 1. dio: Opći zahtjevi i ispitivanja

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

prEN IEC 60987:2021 en  
Nuclear power plants – Instrumentation and control important to safety – Hardware design requirements for computer-based systems (IEC 60987:2021)  
Nuklearne elektrane – Instrumentacija i upravljanje važni za sigurnost – Projektni zahtjevi za hardver računalnog sustava (IEC 60987:2021)

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

EN IEC 61970-301:2020/prA1:2021 en  
Energy management system application program interface (EMS-API) – Part 301: Common information model (CIM) base (IEC 61970-301:2020/am1:202X)  
Sučelje za aplikacije vođenja elektroenergetskog sustava (EMS-API) – 301. dio: Osnove zajedničkog modela podataka (CIM) (IEC 61970-301:2020/am1:202X)

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

prHD 60364-7-730 en  
Low-voltage electrical installations – Part 7-730: Requirements for special installations or locations – Onshore units of electrical shore connections for inland navigation vessels  
Niskonaponske električne instalacije – Dio 7-730: Zahtjevi za posebne instalacije ili prostore – Električni kopneni priključak za plovila unutarnje plovidbe

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

prEN IEC 62714-5:2021 en  
Engineering data exchange format for use in industrial automation systems engineering – Automation Markup Language – Part 5: Communication (IEC 62714-5:202X)  
Format razmjene tehničkih podataka za uporabu u upravljanju industrijskim automatizacijskim sustavima – Viši jezik automatizacije – 5. dio: Komunikacija (IEC 62714-5:202X)

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

prEN 50131-2-3:2021 en  
Alarm systems – Intrusion and hold-up systems – Part 2-3: Requirements for microwave detectors  
Alarmni sustavi – Protuprovalni i protuprepadni sustavi – Dio 2-3: Zahtjevi za mikrovalne detektore

EN 62820-1-1:2016/prAA en  
Building intercom systems – Part 1-1: System requirements – General  
Sustavi za internu komunikaciju u zgradi – Dio 1-1: Zahtjevi za sustav – Općenito

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

prEN IEC 62288:2021 en  
Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays – General requirements, methods of testing and required test results (IEC 62288:202X)  
Pomorska navigacijska i radiokomunikacijska oprema i sustavi – Prikaz navigacijskih podataka na brodskim navigacijskim pokazivačima – Opći zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja (IEC 62288:202X)

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

prEN IEC 60318-8:2021 en  
Electroacoustics – Simulators of human head and ear – Part 8: Acoustic coupler for highfrequency measurements of hearing aids and earphones coupled to the ear by means of ear inserts (IEC 60318-8:202X)

prEN IEC 60645-6:2021 en  
Electroacoustics – Audiometric equipment – Part 6: Instruments for the measurement of otoacoustic emissions (IEC 60645-6:202X)  
Elektroakustika – Audiometrijska oprema – 6. dio: Instrumenti za mjerenje otoakustičkih emisija (IEC 60645-6:202X)

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

EN 50667:2016/prA1:2021 en  
Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications  
Informacijska tehnologija – Sustavi za automatizirano upravljanje infrastrukturom (AIM) – Zahtjevi, razmjena podataka i primjene

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

prEN 17648 en  
E-liquid ingredients

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

prEN 13300 en  
Paints and varnishes – Paints and varnishes for interior walls and ceilings – Classification  
Boje i lakovi – Boje i lakovi za unutrašnje zidove i stropove – Klasifikacija

prEN ISO 13885-1 en  
Gel permeation chromatography (GPC) – Part 1: Tetrahydrofuran (THF) as eluent (ISO 13885-1:2020)  
Kromatografija na propusnom gelu (GPC) – 1. dio: Tetrahidrofuran (THF) kao eluens (ISO 13885-1:2020)

prEN ISO 13885-2 en  
Gel permeation chromatography (GPC) – Part 2: N,N-Dimethylacetamide (DMAC) as eluent (ISO 13885-2:2020)  
Kromatografija na propusnom gelu (GPC) – 2. dio: N,N-dimetilacetamid (DMAC) kao eluens (ISO 13885-2:2020)

prEN ISO 13885-3 en  
Gel permeation chromatography (GPC) – Part 3: Water as eluent (ISO 13885-3:2020)  
Kromatografija na propusnom gelu (GPC) – 3. dio: Voda kao eluens (ISO 13885-3:2020)

prEN 16105 en  
Paints and varnishes – Laboratory method for determination of release of regulated dangerous substances from coatings in intermittent contact with water  
Boje i lakovi – Laboratorijska metoda za određivanje otpuštanja opasnih tvari reguliranih propisima iz premaza koji su u povremenom kontaktu s vodom

prEN ISO 17463 en  
Paints and varnishes – Guidelines for the determination of anticorrosive properties of organic coatings by accelerated cyclic electrochemical technique (ISO/DIS 17463:2021)  
Boje i lakovi – Smjernice za određivanje antikoroziivnih svojstava organskih prevlaka ubrzanim cikličkim elektrokemijskim postupkom (ISO/DIS 17463:2021)

prEN ISO 22553-7 en  
Paints and varnishes – Electro-deposition coatings – Part 7: Electrical wet-film resistance (ISO 22553-7:2020)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom – 7. dio: Električni otpor mokrog filma premaza (ISO 22553-7:2020)

prEN ISO 22553-8 en  
Paints and varnishes – Electro-deposition coatings – Part 8: Electric charge density (ISO 22553-8:2020)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom – 8. dio: Gustoća električnog naboja (ISO 22553-8:2020)

prEN ISO 22553-9 en  
Paints and varnishes – Electro-deposition coatings – Part 9: Stoving loss (ISO 22553-9:2020)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom – 9. dio: Gubitak mase pri pečenju (ISO 22553-9:2020)

prEN ISO 22553-11 en  
Paints and varnishes – Electro-deposition coatings – Part 11:  
Bath stability (ISO 22553-11:2020)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom  
– 11. dio: Stabilnost kupke (ISO 22553-11:2020)

prEN ISO 22553-12 en  
Paints and varnishes – Electro-deposition coatings – Part 12:  
Sedimentation on horizontal areas (ISO 22553-12:2020)  
Boje i lakovi – Prevlake za nanošenje elektrodepozicijom  
– 12. dio: Taloženje na horizontalnim površinama  
(ISO 22553-12:2020)

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

prEN 16510-1 en  
Residential solid fuel burning appliances – Part 1: General  
requirements and test methods  
Uređaji na kruta goriva za kućanstvo – 1. dio: Opći zahtjevi i  
metode ispitivanja

prEN 16510-2-1 en  
Residential solid fuel burning appliances – Part 2-1:  
Roomheaters

prEN 16510-2-2 en  
Residential solid fuel burning appliances – Part 2-2: Inset  
appliances including open fires

prEN 16510-2-3 en  
Residential solid fuel burning appliances – Part 2-3: Cookers

prEN 16510-2-4 en  
Residential solid fuel burning appliances – Part 2-4:  
Independent boilers – Nominal heat output up to 50 kW

prEN 16510-2-6 en  
Residential solid fuel burning appliances – Part 2-6:  
Mechanically by wood pellets fed roomheaters, inset  
appliances and cookers

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

prEN ISO 18618 en  
Dentistry – Interoperability of CAD/CAM Systems  
(ISO/DIS 18618:2021)  
Stomatologija – Interoperabilnost CAD/CAM sustava  
(ISO/DIS 18618:2021)

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

prEN 2559 en  
Aerospace series – Carbon, glass and aramid fibre  
preimpregnates – Determination of the resin and fibre content  
and the mass of fibre per unit area

prEN 4862 en  
Rotorcraft – Constant Wear Lifejackets – Requirements,  
testing and marking

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

prEN IEC 60404-17:2021 en  
Magnetic materials – Part 17: Methods of measurement  
of the magnetostriction characteristics of grainoriented  
electrical steel strip and sheet by means of a single sheet  
tester and an optical sensor (IEC 60404-17:202X)  
Magnetski materijali – 17. dio: Metode mjerenja  
magnetostruktivnih karakteristika zrnato orijentirane električne  
čelične trake i lima pomoću ispitivača pojedinačnih limova i  
optičkog senzora (IEC 60404-17:202X)

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

prEN 50065-4-1 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-1: Low voltage  
decoupling filters – Generic specification  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-1:  
Niskonaponski rastavni filtri – Opća specifikacija

prEN 50065-4-2 en  
Signalling on low voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-2: Low voltage  
decoupling filters – Safety requirements  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-2:  
Niskonaponski rastavni filtri – Sigurnosni zahtjevi

prEN 50065-4-3 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz – Part 4-3: Low voltage  
decoupling filter – Incoming filter  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-3:  
Niskonaponski rastavni filtri – Ulazni filter

prEN 50065-4-4 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-4: Low voltage  
decoupling filter – Impedance filter  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-4:  
Niskonaponski rastavni filtri – Opća specifikacija – Filter  
impedancije

prEN 50065-4-5 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-5: Low voltage  
decoupling filter – Segmentation filter  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-5:  
Niskonaponski rastavni filtri – Filter za segmentaciju

prEN 50065-4-6 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-6: Low voltage  
decoupling filters – Phase coupler  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-6:  
Niskonaponski rastavni filtri – Fazna spojnica

prEN 50065-4-7 en  
Signalling on low-voltage electrical installations in the  
frequency range 3 kHz to 148,5 kHz Part 4-7: Portable low  
voltage decoupling filters – Safety requirements  
Signalizacija na niskonaponskim električnim instalacijama  
u frekvencijskom opsegu 3 kHz do 148,5 kHz – Dio 4-7:  
Prijenosni niskonaponski rastavni filtri – Zahtjevi sigurnosti

FprCLC/TR 50510:2021 en  
Fibre optic access to end-user – A guideline to building of  
FTTX fibre optic network  
Svjetlovodni pristup krajnjem korisniku – Smjernice za  
izgradnju FTTX svjetlovodne mreže

prEN IEC 61010-2-011:2018/FprAA en  
Safety requirements for electrical equipment for measurement,  
control, and laboratory use – Part 2-011: Particular  
requirements for refrigerating equipment  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku  
električnu opremu – Dio 2-011: Posebni zahtjevi za rashladnu  
opremu

prEN IEC 61010-2-051:2017/FprAA en  
Safety requirements for electrical equipment for  
measurement, control and laboratory use – Part 2-051:  
Particular requirements for laboratory equipment for mixing  
and stirring  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku  
električnu opremu – Dio 2-051: Posebni zahtjevi za  
laboratorijsku opremu za miješanje i stiring

prEN IEC 61010-2-061:2017/FprAA en  
Safety requirements for electrical equipment for  
measurement, control and laboratory use – Part 2-061:  
Particular requirements for laboratory atomic spectrometers  
with thermal atomization and ionization  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku  
električnu opremu – Dio 2-061: Posebni zahtjevi za  
laboratorijske atomske spektrometre s termičkom  
atomizacijom i ionizacijom

EN IEC 61010-2-091:2021/A11:2021 en  
Safety requirements for electrical equipment for  
measurement, control and laboratory use – Part 2-091:  
Particular requirements for cabinet X-ray systems  
Sigurnosni zahtjevi za mjernu, upravljačku i laboratorijsku  
električnu opremu – Dio 2-091: Posebni zahtjevi za  
rendgenske sustave u kućištu

prEN IEC 62604-1:2021 en  
Surface acoustic wave (SAW) and bulk acoustic wave (BAW)  
duplexers of assessed quality – Part 1: Generic specification  
(IEC 62604-1:202X)

prEN IEC 62604-2:2021 en  
Surface acoustic wave (SAW) and bulk acoustic wave (BAW)  
duplexers of assessed quality – Part 2: Guidelines for the use  
(IEC 62604-2:202X)



prEN IEC 62759-1:2021 en  
Photovoltaic (PV) modules – Transportation testing – Part 1:  
Transportation and shipping of module package units  
(IEC 62759-1:202X)  
Fotonaponski (PV) moduli – Ispitivanje prijevoza – 1. dio: Prijevoz  
i otprema jedinica za pakiranje modula (IEC 62759-1:202X)

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

prEN IEC 60127-6:2021 en  
Miniature fuses – Part 6: Fuse-holders for miniature  
fuse-links (IEC 60127-6:202X)  
Minijaturni osigurači – 6. dio: Držači osigurača za minijaturne  
rastalne uloške (IEC 60127-6:202X)

prEN IEC 61558-2-14:2021 en  
Safety of transformers, reactors, power supply units and  
combinations thereof – Part 2-14: Particular requirements  
and tests for variable transformers and power supply units  
incorporating variable transformers for general applications  
(IEC 61558-2-14:202X)  
Sigurnost transformatora, prigušnica, jedinica za napajanje  
i kombinacije od toga – Dio 2-14: Posebni zahtjevi i  
ispitivanja za regulacijske transformatore i jedinice  
za napajanje uključujući regulacijske transformatore  
(IEC 61558-2-14:202X)

prEN IEC 61558-2-15:2021 en  
Safety of transformers, reactors, power supply units and  
combinations thereof – Part 2-15: Particular requirements  
and tests for isolating transformers for medical IT systems  
for the supply of medical locations (IEC 61558-2-15:202X)

prEN IEC 62641:2021 en  
Conductors for overhead lines – Aluminium and aluminium  
alloy wires for concentric lay stranded conductors  
(IEC 62641:202X)

prEN IEC 62641:2021/prAA en  
Conductors for overhead lines – Aluminium and aluminium  
alloy wires for concentric lay stranded conductors

EN 62841-4-2:2019/prA1 en  
Electric motor-operated hand-held tools, transportable  
tools and lawn and garden machinery – Safety – Part 4-2:  
Particular requirements for hedge trimmers  
(IEC 62841-4-2:2017/am1:202X)  
Ručni elektromotorni alati, prijenosni alati i mehanizacija za  
travnjake i vrtove – Sigurnost – Dio 4-2: Posebni zahtjevi za  
kresalice (IEC 62841-4-2:2017/am1:202X)

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

prEN IEC 63248:2021 en  
Conductors for overhead lines – Coated or cladded  
metallic wire for concentric lay stranded conductors  
(IEC 63248:202X)

prEN IEC 63248:2021/prAA en  
Conductors for overhead lines – Coated or cladded metallic  
wire for concentric lay stranded conductors

## **1.4 Povučene hrvatske norme**

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

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

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

HRN EN 1591-2:2008 en  
Prirubnice i njihovi spojevi – Pravila za projektiranje  
prirubničkih spojeva s kružnim brtvama – 2. dio: Parametri  
brtvi (EN 1591-2:2008)  
Flanges and their joints – Design rules for gasketed  
circular flange connections – Part 2: Gasket parameters  
(EN 1591-2:2008)  
- bez zamjene

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

HRN EN ISO 10133:2017 en  
Mala plovila – Električni sustavi – Instalacije za iznimno mali  
istosmjerni napon (ISO 10133:2012; EN ISO 10133:2017)  
Small craft – Electrical systems – Extra-low-voltage d.c.  
installations (ISO 10133:2012; EN ISO 10133:2017)  
- zamijenjena s: HRN EN ISO 13297:2021

HRN EN ISO 13297:2018 en  
Mala plovila – Električni sustavi – Instalacije za izmjeničnu  
struju (ISO 13297:2014; EN ISO 13297:2018)  
Small craft – Electrical systems – Alternating current  
installations (ISO 13297:2014; EN ISO 13297:2018)  
- zamijenjena s: HRN EN ISO 13297:2021

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

HRN EN ISO 28139:2010 en  
Poljoprivredna i šumarska mehanizacija – Leđno nosivi  
zamagljivači pokretani motorima s unutrašnjim izgaranjem  
– Sigurnosni zahtjevi (ISO 28139:2009; EN ISO 28139:2009)  
Agricultural and forestry machinery – Knapsack  
combustion-engine-driven mistblowers – Safety requirements  
(ISO 28139:2009; EN ISO 28139:2009)  
- zamijenjena s: HRN EN ISO 28139:2021

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

HRN EN ISO 13736:2013 en  
Određivanje točke paljenja – Metoda zatvorene posude po  
Abelu (ISO 13736:2013; EN ISO 13736:2013)  
Determination of flash point – Abel closed-cup method  
(ISO 13736:2013; EN ISO 13736:2013)  
- zamijenjena s: HRN EN ISO 13736:2021

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

HRN EN ISO 10140-2:2010 en  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih  
dijelova zgrade – 2. dio: Mjerenje zračne zvučne izolacije  
(ISO 10140-2:2010; EN ISO 10140-2:2010)  
Acoustics – Laboratory measurement of sound insulation of  
building elements – Part 2: Measurement of airborne sound  
insulation (ISO 10140-2:2010; EN ISO 10140-2:2010)  
- zamijenjena s: HRN EN ISO 10140-2:2021

HRN EN ISO 10140-3:2010 en  
Akustika – Laboratorijska mjerenja zvučne izolacije građevnih  
dijelova zgrade – 3. dio: Mjerenje udarne zvučne izolacije  
(ISO 10140-3:2010; EN ISO 10140-3:2010)  
Acoustics – Laboratory measurement of sound insulation of  
building elements – Part 3: Measurement of impact sound  
insulation (ISO 10140-3:2010; EN ISO 10140-3:2010)  
- zamijenjena s: HRN EN ISO 10140-3:2021

HRN EN ISO 10140-3:2010/A1:2015 en

Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 3. dio: Mjerenje udarne zvučne izolacije (ISO 10140-3:2010/Amd 1:2015; EN ISO 10140-3:2010/A1:2015)  
Acoustics – Laboratory measurement of sound insulation of building elements – Part 3: Measurement of impact sound insulation (ISO 10140-3:2010/Amd 1:2015; EN ISO 10140-3:2010/A1:2015)

- zamijenjena s: HRN EN ISO 10140-3:2021

HRN EN ISO 10140-4:2010 en

Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 4. dio: Mjerni postupci i zahtjevi (ISO 10140-4:2010; EN ISO 10140-4:2010)

Acoustics – Laboratory measurement of sound insulation of building elements – Part 4: Measurement procedures and requirements (ISO 10140-4:2010; EN ISO 10140-4:2010)

- zamijenjena s: HRN EN ISO 10140-4:2021

HRN EN ISO 10140-5:2010 en

Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 5. dio: Zahtjevi za ispitne objekte i opremu (ISO 10140-5:2010; EN ISO 10140-5:2010)

Acoustics – Laboratory measurement of sound insulation of building elements – Part 5: Requirements for test facilities and equipment (ISO 10140-5:2010; EN ISO 10140-5:2010)

- zamijenjena s: HRN EN ISO 10140-5:2021

HRN EN ISO 10140-5:2010/A1:2014 en

Akustika – Laboratorijska mjerenja zvučne izolacije građevnih dijelova zgrade – 5. dio: Zahtjevi za ispitne instalacije i opremu – Amandman 1: Buka padanja kiše (ISO 10140-5:2010/Amd 1:2014; EN ISO 10140-5:2010/A1:2014)

Acoustics – Laboratory measurement of sound insulation of building elements – Part 5: Requirements for test facilities and equipment – Amendment 1: Rainfall sound (ISO 10140-5:2010/Amd 1:2014; EN ISO 10140-5:2010/A1:2014)

- zamijenjena s: HRN EN ISO 10140-5:2021

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

HRN EN ISO 3834-2:2007 en

Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 2. dio: Sveobuhvatni zahtjevi za kvalitetu (ISO 3834-2:2005; EN ISO 3834-2:2005)

Quality requirements for fusion welding of metallic materials – Part 2: Comprehensive quality requirements (ISO 3834-2:2005; EN ISO 3834-2:2005)

- zamijenjena s: HRN EN ISO 3834-2:2021

HRN EN ISO 3834-3:2007 en

Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 3. dio: Standardni zahtjevi za kvalitetu (ISO 3834-3:2005; EN ISO 3834-3:2005)

Quality requirements for fusion welding of metallic materials – Part 3: Standard quality requirements (ISO 3834-3:2005; EN ISO 3834-3:2005)

- zamijenjena s: HRN EN ISO 3834-3:2021

HRN EN ISO 3834-4:2007 en

Zahtjevi za kvalitetu zavarivanja taljenjem metalnih materijala – 4. dio: Osnovni zahtjevi za kvalitetu (ISO 3834-4:2005; EN ISO 3834-4:2005)

Quality requirements for fusion welding of metallic materials – Part 4: Elementary quality requirements (ISO 3834-4:2005; EN ISO 3834-4:2005)

- zamijenjena s: HRN EN ISO 3834-4:2021

HRN EN ISO 8205-1:2003 en

Vodom hlađeni sekundarni provodnici za elektrootporno zavarivanje – 1. dio: Dimenzije i zahtjevi za dvožilne kabele (ISO 8205-1:2002; EN ISO 8205-1:2002)

Water-cooled secondary connection cables for resistance welding – Part 1: Dimensions and requirements for double-conductor connection cables (ISO 8205-1:2002; EN ISO 8205-1:2002)

- zamijenjena s: HRN EN ISO 8205:2021

HRN EN ISO 8205-2:2003 en

Vodom hlađeni sekundarni provodnici za elektrootporno zavarivanje – 2. dio: Dimenzije i zahtjevi za jednožilne kabele (ISO 8205-2:2002; EN ISO 8205-2:2002)

Water-cooled secondary connection cables for resistance welding – Part 2: Dimensions and requirements for single-conductor connection cables (ISO 8205-2:2002; EN ISO 8205-2:2002)

- zamijenjena s: HRN EN ISO 8205:2021

HRN EN ISO 8205-3:2013 en

Vodom hlađeni sekundarni spojni kabeli za elektrootporno zavarivanje – 3. dio: Ispitni zahtjevi (ISO 8205-3:2012; EN ISO 8205-3:2012)

Water-cooled secondary connection cables for resistance welding – Part 3: Test requirements (ISO 8205-3:2012; EN ISO 8205-3:2012)

- zamijenjena s: HRN EN ISO 8205:2021

HRN EN ISO 12671:2014 en

Toplinsko naštrcavanje – Toplinski naštrcane prevlake – Simbolički prikaz na crtežima (ISO 12671:2012; EN ISO 12671:2014)

Thermal spraying – Thermally sprayed coatings – Symbolic representation on drawings (ISO 12671:2012; EN ISO 12671:2014)

- zamijenjena s: HRN EN ISO 12671:2021

## **HZN/TO 120, Koža i obuća**

HRS CEN ISO/TS 16181:2011 en

Obuća – Kritične tvari potencijalno prisutne u obući i dijelovima obuće – Određivanje ftalata u materijalima za obuću (ISO/TS 16181:2011; CEN ISO/TS 16181:2011)

Footwear – Critical substances potentially present in footwear and footwear components – Determination of phthalates in footwear materials (ISO/TS 16181:2011; CEN ISO/TS 16181:2011)

- zamijenjena s: HRN EN ISO 16181-1:2021

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

HRN EN 12543-2:2008 en

Nerazorno ispitivanje – Značajke fokusnih točaka u industrijskim rendgenskim sustavima za uporabu pri nerazornom ispitivanju – 2. dio: Radiografska metoda pomoću dijafagme s rupicom (EN 12543-2:2008)

Non-destructive testing – Characteristics of focal spots in industrial X-ray systems for use in non-destructive testing – Part 2: Pinhole camera radiographic method (EN 12543-2:2008)

- zamijenjena s: HRN EN 12543-2:2021

## **HZN/TO 136, Namještaj**

HRN EN 1335-3:2009 en

Uredski namještaj – Uredske radne stolice – 3. dio: Metode ispitivanja (EN 1335-3:2009)

Office furniture – Office work chair – Part 3: Test methods (EN 1335-3:2009)

- zamijenjena s: HRN EN 1335-2:2018

HRN EN 1335-3:2009/Ispr.1:2010 en

Uredski namještaj – Uredske radne stolice – 3. dio: Ispitne metode (EN 1335-3:2009/AC:2009)

Office furniture – Office work chair – Part 3: Test methods (EN 1335-3:2009/AC:2009)

- zamijenjena s: HRN EN 1335-2:2018

## **HZN/TO 165, Drvene konstrukcije**

HRN EN 13271:2006 en

Spajala za drvo – Karakteristična nosivost i modul proklizavanja u spojevima sa spajalima posebne izradbe (EN 13271:2001+AC:2003)

Timber fasteners – Characteristic load-carrying capacities and slip-moduli for connector joints (EN 13271:2001+AC:2003)

- bez zamjene

## **HZN/TO 179, Zidane konstrukcije**

HRN CR 13962:2005 en

Smjernice za primjenu elemenata od betona s laganim agregatom otvorene strukture (LAC) u konstrukcijama (CR 13962:2000)

Guidelines for the application of LAC-components in structures (CR 13962:2000)

- bez zamjene

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

HRN EN 71-3:2019 en

Sigurnost igraćaka – 3. dio: Otpuštanje određenih elemenata (EN 71-3:2019)

Safety of toys – Part 3: Migration of certain elements (EN 71-3:2019)

- zamijenjena s: HRN EN 71-3:2021

HRN EN 71-13:2014 en  
Sigurnost igračkica – 13. dio: Mirisne ploče za igru, kozmetički setovi i setovi za kušanje (EN 71-13:2014)  
Safety of toys – Part 13: Olfactory board games, cosmetic kits and gustative games (EN 71-13:2014)  
- zamijenjena s: HRN EN 71-13:2021

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

HRN EN ISO 19148:2013 en  
Geoinformacije – Linearno referenciranje (ISO 19148:2012; EN ISO 19148:2012)  
Geographic information – Linear referencing (ISO 19148:2012; EN ISO 19148:2012)  
- zamijenjena s: HRN EN ISO 19148:2021

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

HRN EN 13647:2011 en  
Drvene podne obloge i drvene obloge za zidove i stropove – Određivanje geometrijskih značajka (EN 13647:2011)  
Wood flooring and wood panelling and cladding – Determination of geometrical characteristics (EN 13647:2011)  
- zamijenjena s: HRN EN 13647:2021

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

HRN EN 10216-5:2013 en  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 5. dio: Nehrđajuće čelične cijevi (EN 10216-5:2013)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes (EN 10216-5:2013)  
- zamijenjena s: HRN EN 10216-5:2021

HRN EN 10217-7:2014 en  
Zavarene čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 7. dio: Cijevi od nehrđajućih čelika (EN 10217-7:2014)  
Welded steel tubes for pressure purposes – Technical delivery conditions – Part 7: Stainless steel tubes (EN 10217-7:2014)  
- zamijenjena s: HRN EN 10217-7:2021

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

HRN EN ISO 4518:1999 en  
Metalne prevlake – Mjerenje debljine prevlake – Profilometrijska metoda (ISO 4518:1980; EN ISO 4518:1995)  
Metallic coatings – Measurement of coating thickness – Profilometric method (ISO 4518:1980; EN ISO 4518:1995)  
- zamijenjena s: HRN EN ISO 4518:2021

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

HRN EN 437:2018 en  
Ispitni plinovi – Ispitni tlakovi – Kategorije uređaja (EN 437:2018)  
Test gases – Test pressures – Appliance categories (EN 437:2018)  
- zamijenjena s: HRN EN 437:2021

HRN EN ISO 11960:2014 en  
Industrija nafte i prirodnoga plina – Čelične cijevi za upotrebu u bušotinama u svrhu zaštitnih (casing) ili uzlaznih (tubing) cijevi (ISO 11960:2014; EN ISO 11960:2014)  
Petroleum and natural gas industries – Steel pipes for use as casing or tubing for wells (ISO 11960:2014; EN ISO 11960:2014)  
- zamijenjena s: HRN EN ISO 11960:2021

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

HRN EN 1824:2011 en  
Materijali za oznake na kolniku – Ispitna kola (EN 1824:2011)  
Road marking materials – Road trials (EN 1824:2011)  
- zamijenjena s: HRN EN 1824:2020

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

HRN ISO 3455:2007 en  
Hidrometrija – Umjeravanje hidrometrijskih krila u bazenu za tegalj (ISO 3455:2007)  
Hydrometry – Calibration of current-meters in straight open tanks (ISO 3455:2007)  
- bez zamjene

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

HRN EN 14730-2:2007 en  
Željeznički sustav – Željeznički gornji ustroj – Aluminotermijsko zavarivanje tračnica – 2. dio: Osposobljavanje zavarivača aluminotermijskim postupkom, odobravanje izvođača radova na zavarivanju i preuzimanje zavera (EN 14730-2:2006)  
Railway applications – Track – Aluminothermic welding of rails – Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds (EN 14730-2:2006)  
- zamijenjena s: HRN EN 14730-2:2021

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

HRN ISO 4301-1:2001 en  
Granici i dizalice – Podjela u pogonske skupine – 1. dio: Općenito (ISO 4301-1:1986)  
Cranes and lifting appliances – Classification – Part 1: General (ISO 4301-1:1986)  
- zamijenjena s: HRN ISO 4301-1:2017

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

HRN EN ISO 844:2014 en  
Kruta pjenasta plastika – Određivanje tlačnih svojstava (ISO 844:2014; EN ISO 844:2014)  
Rigid cellular plastics – Determination of compression properties (ISO 844:2014; EN ISO 844:2014)  
- zamijenjena s: HRN EN ISO 844:2021

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

HRN EN 13141-4:2012 en  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 4. dio: Ventilatori koji se upotrebljavaju u sustavima stambene ventilacije (EN 13141-4:2011)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 4: Fans used in residential ventilation systems (EN 13141-4:2011)  
- zamijenjena s: HRN EN 13141-4:2021

HRN EN 13141-7:2012 en  
Ventilacija u zgradama – Ispitivanje značajka dijelova/proizvoda za ventilaciju zgrada – 7. dio: Ispitivanje značajka sustava ventilacije za dobavu i otlis (uključujući povrat topline) za obiteljsku kuću (EN 13141-7:2010)  
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 7: Performance testing of a mechanical supply and exhaust ventilation units (including heat recovery) for mechanical ventilation systems intended for single family dwellings (EN 13141-7:2010)  
- zamijenjena s: HRN EN 13141-7:2021

HRN EN 13142:2013 en  
Ventilacija u zgradama – Dijelovi/proizvodi za stambenu ventilaciju – Zahtjevi i dodatne značajke (EN 13142:2013)  
Ventilation for buildings – Components/products for residential ventilation – Required and optional performance characteristics (EN 13142:2013)  
- zamijenjena s: HRN EN 13142:2021

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

HRN EN ISO 6927:2013 en,fr,de  
Zgrade i inženjerske građevine – Brtvila – Terminološki rječnik (ISO 6927:2012; EN ISO 6927:2012)  
Buildings and civil engineering works – Sealants – Vocabulary (ISO 6927:2012; EN ISO 6927:2012)  
- zamijenjena s: HRN EN ISO 6927:2021

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

HRN EN 1041:2013 en  
Informacije koje daje proizvođač medicinskih proizvoda (EN 1041:2008+A1:2013)  
Information supplied by the manufacturer of medical devices (EN 1041:2008+A1:2013)  
- zamijenjena s: HRN EN ISO 20417:2021

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

HRN EN 15714-2:2010 en  
Industrijski zaporni uređaji – Pokretači – 2. dio: Električni pokretači za industrijske zaporne uređaje – Osnovni zahtjevi (EN 15714-2:2009)  
Industrial valves – Actuators – Part 2: Electric actuators for industrial valves – Basic requirements (EN 15714-2:2009)  
- zamijenjena s: HRN EN ISO 22153:2021

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

HRN EN ISO 1140:2012 en  
Vlaknasta užad – Poliamidno vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1140:2012; EN ISO 1140:2012)  
Fibre ropes – Polyamide – 3-, 4-, 8- and 12- strand ropes (ISO 1140:2012; EN ISO 1140:2012)  
- zamijenjena s: HRN EN ISO 1140:2021

HRN EN ISO 1141:2012 en  
Vlaknasta užad – Poliestersko vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1141:2012; EN ISO 1141:2012)  
Fibre ropes – Polyester – 3-, 4-, 8- and 12- strand ropes (ISO 1141:2012; EN ISO 1141:2012)  
- zamijenjena s: HRN EN ISO 1141:2021

HRN EN ISO 1346:2012 en  
Vlaknasta užad – Polipropilensko vrpčasto vlakno, monofilament i multifilament (PP2) te polipropilensko vlakno visoke čvrstoće multifilament (PP3) – 3-, 4-, 8- i 12-struka užad (ISO 1346:2012; EN ISO 1346:2012)  
Fibre ropes – Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high tenacity multifilament (PP3) – 3-, 4-, 8- and 12- strand ropes (ISO 1346:2012; EN ISO 1346:2012)  
- zamijenjena s: HRN EN ISO 1346:2021

HRN ISO 2647:2003 en  
Vuna – Određivanje postotka meduliranih vlakana projekcijskim mikroskopom (ISO 2647:1973)  
Wool – Determination of percentage of medullated fibres by the projection microscope (ISO 2647:1973)  
- zamijenjena s: HRN ISO 2647:2021

HRN ISO 2648:2003 en  
Vuna – Određivanje polidisperznosti duljine vlakana – Elektronička metoda (ISO 2648:1974)  
Wool – Determination of fibre length distribution parameters – Electronic method (ISO 2648:1974)  
- zamijenjena s: HRN ISO 2648:2021

HRN ISO 7211-5:2003 en  
Tekstil – Tkanine – Konstrukcija – Metode analize – 5. dio: Određivanje duljinske mase pređe iz tkanine (ISO 7211-5:1984)  
Textiles – Woven fabrics – Construction – Methods of analysis – Part 5: Determination of linear density of yarn removed from fabric (ISO 7211-5:1984)  
- zamijenjena s: HRN ISO 7211-5:2021

HRN ISO 7211-6:2003 en  
Tekstil – Tkanine – Konstrukcija – Metode analize – 6. dio: Određivanje mase osnove i potke po jedinici površine tkanine (ISO 7211-6:1984)  
Textiles – Woven fabrics – Construction – Methods of analysis – Part 6: Determination of the mass of warp and weft per unit area of fabric (ISO 7211-6:1984)  
- zamijenjena s: HRN ISO 7211-6:2021

HRN ISO 16549:2019 en  
Tekstil – Nejednolikost tekstilnih niti – Kapacitivna metoda (ISO 16549:2004)  
Textiles – Unevenness of textile strands – Capacitance method (ISO 16549:2004)  
- zamijenjena s: HRN ISO 16549:2021

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

HRN EN 1218-1:2010 en  
Sigurnost strojeva za obradu drva – Strojevi za izradu rukavaca – 1. dio: Strojevi za jednostranu izradu rukavaca s pomičnim stolom (EN 1218-1:1999+A1:2009)  
Safety of woodworking machines – Tenoning machines – Part 1: Single end tenoning machines with sliding table (EN 1218-1:1999+A1:2009)  
- zamijenjena s: HRN EN ISO 19085-12:2021

HRN EN 1218-2:2010 en  
Sigurnost strojeva za obradu drva – Strojevi za izradu rukavaca – 2. dio: Strojevi za dvostranu izradu rukavaca i/ili profiliranje pogonjeni lancem ili lancima (EN 1218-2:2004+A1:2009)  
Safety of woodworking machines – Tenoning machines – Part 2: Double end tenoning and/or profiling machines fed by chain or chains (EN 1218-2:2004+A1:2009)  
- zamijenjena s: HRN EN ISO 19085-12:2021

HRN EN 1218-5:2010 en  
Sigurnost strojeva za obradu drva – Strojevi za izradu rukavaca – 5. dio: Strojevi za jednostrano profiliranje s fiksnim stolom i pogonskim valjcima ili pogonjeni lancem (EN 1218-5:2004+A1:2009)  
Safety of woodworking machines – Tenoning machines – Part 5: One side profiling machines with fixed table and feed rollers or feed chain (EN 1218-5:2004+A1:2009)  
- zamijenjena s: HRN EN ISO 19085-12:2021

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

HRN EN 17203:2019 en  
Hrana – Određivanje citrulina u hrani tekućinskom kromatografijom i tandemskom spektrometrijom masa (LC-MS/MS) (EN 17203:2018)  
Foodstuffs – Determination of citrulin in food by liquid chromatography tandem mass spectrometry (LC-MS/MS) (EN 17203:2018)  
- zamijenjena s: HRN EN 17203:2021

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

HRN HD 538.3 S1:2008 en  
Trofazni suhi distributivni transformatori 50 Hz, od 100 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 3. dio: Određivanje nazivne snage transformatora opterećenog s nesinusoidalnom strujom (HD 538.3 S1:1997)  
Three-phase dry-type distribution transformers 50 Hz, from 100 to 2500 kVA, with highest voltage for equipment not exceeding 36 kV – Part 3: Determination of the power rating of a transformer loaded with non-sinusoidal current (HD 538.3 S1:1997)  
- zamijenjena s: HRN EN 50541-2:2013

HRN EN 50216-4:2008 en  
Oprema za energetske transformatore i prigušnice – 4. dio: Osnovni pribor (priključak za uzemljenje, uređaji za punjenje i odzračivanje, džep za termometar, kotači) (EN 50216-4:2002)  
Power transformer and reactor fittings – Part 4: Basic accessories (earthing terminal, drain and filling devices, thermometer pocket, wheel assembly) (EN 50216-4:2002)  
- zamijenjena s: HRN EN 50216-4:2015

HRN EN 50299:2008 en  
Sklopovi za uljem punjene kabelaške veze za transformatore i prigušnice koji imaju najviši napon opreme Um od 72,5 kV do 550 kV (EN 50299:2002)  
Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment Um from 72,5 kV to 550 kV (EN 50299:2002)  
- zamijenjena s: HRN EN 50299-1:2016, HRN EN 50299-2:2016

HRN EN 50299:2008/Ispr.1:2014 en  
Sklopovi za uljem punjene kabelaške veze za transformatore i prigušnice koji imaju najviši napon opreme Um od 72,5 kV do 550 kV (EN 50299:2002/AC:2004)  
Oil-immersed cable connection assemblies for transformers and reactors having highest voltage for equipment Um from 72,5 kV to 550 kV (EN 50299:2002/AC:2004)  
- zamijenjena s: HRN EN 50299-1:2016, HRN EN 50299-2:2016

HRN EN 50464-1:2008 en  
Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 1. dio: Opći zahtjevi (EN 50464-1:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements (EN 50464-1:2007)  
- zamijenjena s: HRN EN 50588-1:2015

HRN EN 50464-1:2008/A1:2013 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 1. dio: Opći zahtjevi (EN 50464-1:2007/A1:2012)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2500 kVA with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements (EN 50464-1:2007/A1:2012)  
- zamijenjena s: HRN EN 50588-1:2015

HRN EN 50464-2-1:2008 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – Dio 2-1: Distributivni transformatori s kabelskim kutijama na strani visokog i/ili niskog napona – Opći zahtjevi (EN 50464-2-1:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 2-1: Distribution transformers with cable boxes on the high-voltage and/or low-voltage side – General requirements (EN 50464-2-1:2007)  
- zamijenjena s: HRN EN 50588-2:2018

HRN EN 50464-2-2:2008 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – Dio 2-2: Distributivni transformatori s kabelskim kutijama na strani visokog i/ili niskog napona – Kabelske kutije tip 1 na distributivnim transformatorima u skladu s zahtjevima definiranih normom EN 50464-2-1 (EN 50464-2-2:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 2-2: Distribution transformers with cable boxes on the high-voltage and/or low-voltage side – Cable boxes type 1 for use on distribution transformers meeting the requirements of EN 50464-2-1 (EN 50464-2-2:2007)  
- zamijenjena s: HRN EN 50588-3:2018

HRN EN 50464-2-3:2008 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – Dio 2-3: Distributivni transformatori s kabelskim kutijama na strani visokog i/ili niskog napona – Kabelske kutije tip 2 na distributivnim transformatorima u skladu s zahtjevima definiranih normom EN 50464-2-1 (EN 50464-2-3:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 2-3: Distribution transformers with cable boxes on the high-voltage and/or low-voltage side – Cable boxes type 2 for use on distribution transformers meeting the requirements of EN 50464-2-1 (EN 50464-2-3:2007)  
- zamijenjena s: HRN EN 50588-4:2018

HRN EN 50464-3:2008 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 3. dio: Određivanje nazivne snage transformatora opterećenog nesinusoidalnim strujama (EN 50464-3:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 3: Determination of the power rating of a transformer loaded with non-sinusoidal currents (EN 50464-3:2007)  
- bez zamjene

HRN EN 50464-4:2008 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 4. dio: Zahtjevi i ispitivanje pod pritiskom kotlova iz valovitog lima (EN 50464-4:2007)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2 500 kVA with highest voltage for equipment not exceeding 36 kV – Part 4: Requirements and tests concerning pressurised corrugated tanks (EN 50464-4:2007)  
- bez zamjene

HRN EN 50464-4:2008/A1:2011 en

Trofazni uljni distributivni transformatori 50 Hz, od 50 kVA do 2500 kVA za najviši napon opreme koji ne prelazi 36 kV – 4. dio: Zahtjevi i ispitivanje pod pritiskom kotlova iz valovitog lima (EN 50464-4:2007/A1:2011)  
Three-phase oil-immersed distribution transformers 50 Hz, from 50 kVA to 2500 kVA with highest voltage for equipment not exceeding 36 kV – Part 4: Requirements and tests concerning pressurised corrugated tanks (EN 50464-4:2007/A1:2011)  
- bez zamjene

HRN EN 50541-1:2011 en

Trofazni suhi distributivni transformatori 50 Hz, od 100 kVA do 3150 kVA za najviši napon opreme koji ne prelazi 36 kV – 1. dio: Opći zahtjevi (EN 50541-1:2011)  
Three phase dry-type distribution transformers 50 Hz, from 100 kVA to 3150 kVA, with highest voltage for equipment not exceeding 36 kV – Part 1: General requirements (EN 50541-1:2011)  
- zamijenjena s: HRN EN 50588-1:2015

HRN EN 60076-10:2008 en

Energetski transformatori – 10. dio: Određivanje zvučnih razina (IEC 60076-10:2001; EN 60076-10:2001)  
Power transformers – Part 10: Determination of sound levels (IEC 60076-10:2001; EN 60076-10:2001)  
- zamijenjena s: HRN EN 60076-10:2016

HRN EN 60214-1:2008 en

Regulacijske sklopke – 1. dio: Zahtjevi na svojstva i metode ispitivanja (IEC 60214-1:2003; EN 60214-1:2003)  
Tap-changers – Part 1: Performance requirements and test methods (IEC 60214-1:2003; EN 60214-1:2003)  
- zamijenjena s: HRN EN 60214-1:2015

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

HRN EN 16274:2012 en

Metode za analizu alergena – Određivanje količine sumnjivih alergena u mirisima u proizvodima široke potrošnje – Korak 1: GC analize uzorka spremnog za ubrizgavanje (EN 16274:2012)  
Methods for analysis of allergens – Quantification of suspected fragrance allergens in consumer products – Step 1: GC analysis of ready-to-inject sample (EN 16274:2012)  
- zamijenjena s: HRN EN 16274:2021

HRN EN ISO 28199-1:2010 en

Boje i lakovi – Procjena svojstava prekrivnih sustava s obzirom na postupak nanošenja – 1. dio: Relevantan terminološki rječnik i priprema ispitnih ploča (ISO 28199-1:2009+Cor 1:2009; EN ISO 28199-1:2009+AC:2009)  
Paints and varnishes – Evaluation of properties of coating systems related to the application process – Part 1: Terminology and preparation of test panels (ISO 28199-1:2009+Cor 1:2009; EN ISO 28199-1:2009+AC:2009)  
- zamijenjena s: HRN EN ISO 28199-1:2021

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

HRN EN 3475-512:2008 en

Nizovi o zrakoplovstvu – Električni kabeli za upotrebu u zrakoplovstvu – Metode ispitivanja – 512. dio: Izdržljivost pri savijanju (EN 3475-512:2002)  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 512: Flexure endurance (EN 3475-512:2002)  
- zamijenjena s: HRN EN 3475-512:2021

## 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.

### TO 217, *Kozmetika*

- **umjesto**

HRN EN ISO 24442:2012  
Kozmetika – Metode **određivanja zaštitnih faktora** – In vivo određivanje UVA **zaštitnih faktora** (ISO 24442:2011; EN ISO 24442:2011)  
Cosmetics – Sun protection test methods – In vivo determination of sunscreen UVA protection (ISO 24442:2011; EN ISO 24442:2011)

- **treba biti**

HRN EN ISO 24442:2012  
Kozmetika – Metode **ispitivanja sredstava za zaštitu od sunca** – In vivo određivanje UVA **zaštite** (ISO 24442:2011; EN ISO 24442:2011)  
Cosmetics – Sun protection test methods – In vivo determination of sunscreen UVA protection (ISO 24442:2011; EN ISO 24442:2011)

### TO 534, *Spremnici za teret*

- **umjesto**

HRN EN ISO 17268:2020  
Prikjučni uređaji za punjenje gorivom terenskih vozila na **tekući vodik** (ISO 17268:2020; EN ISO 17268:2020)  
Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2020; EN ISO 17268:2020)

- **treba biti**

HRN EN ISO 17268:2020  
Priključni uređaji za punjenje gorivom terenskih vozila na **plinoviti vodik** (ISO 17268:2020; EN ISO 17268:2020)  
Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2020; EN ISO 17268:2020)

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

- **umjesto**

HRN EN 50216-3:2008  
Oprema za energetske transformatore i prigušnice – 3. dio: Zaštitni relej za potpuno zatvorene transformatore i prigušnice napunjene tekućinom bez zračnog jastuka (EN 50216-3:2002+A1:2002+A2:2006)  
Power transformer and reactor fittings – Part 3: Protective relay for hermetically sealed liquid-immersed transformers and reactors without gaseous cushion (EN 50216-3:2002+A1:2002+A2:2006)

- **treba biti**

HRN EN 50216-3:2008  
Oprema za energetske transformatore i prigušnice – 3. dio: Zaštitni relej za potpuno zatvorene transformatore i prigušnice napunjene tekućinom bez zračnog jastuka (EN 50216-3:2002+A2:2006)  
Power transformer and reactor fittings – Part 3: Protective relay for hermetically sealed liquid-immersed transformers and reactors without gaseous cushion (EN 50216-3:2002+A2:2006)

- **umjesto**

HRN EN 50216-5:2008  
Oprema za energetske transformatore i prigušnice – 5. dio: Pokazivači razine, pritiska i protoka tekućine, odušnici i sušionici zraka (EN 50216-5:2002+A1:2002+A2:2005+A3:2006)  
Power transformer and reactor fittings – Part 5: Liquid level, pressure and flow indicators, pressure relief devices and dehydrating breathers (EN 50216-5:2002+A1:2002+A2:2005+A3:2006)

- **treba biti**

HRN EN 50216-5:2008  
Oprema za energetske transformatore i prigušnice – 5. dio: Pokazivači razine, pritiska i protoka tekućine, odušnici i sušionici zraka (EN 50216-5:2002+A2:2005+A3:2006)  
Power transformer and reactor fittings – Part 5: Liquid level, pressure and flow indicators, pressure relief devices and dehydrating breathers (EN 50216-5:2002+A2:2005+A3:2006)

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

- **umjesto**

HRN IEC 60884-1:2007  
Utikači i utičnice za kućanstvo i slične svrhe (kućanski utični pribor) – 1. dio: Opći zahtjevi (IEC 60884-1:2006)  
Plugs and socket-outlets for household and similar purposes – Part 1: General requirements (IEC 60884-1:2006)

- **treba biti**

HRN IEC 60884-1:2007  
Utikači i utičnice za kućanstvo i slične svrhe (kućanski utični pribor) – 1. dio: Opći zahtjevi (IEC 60884-1:2002+am1:2006)  
Plugs and socket-outlets for household and similar purposes – Part 1: General requirements (IEC 60884-1:2002+am1:2006)

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

- **umjesto**

HRN EN IEC 60404-16:2018  
Magnetski materijali – 16. dio: Metode mjerenja magnetskih svojstava Fe-bazirane amorfnе trake pomoću ispitivača **pojedinačne plohe** (IEC 60404-16:2018; EN IEC 60404-16:2018)  
Magnetic materials – Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester (IEC 60404-16:2018; EN IEC 60404-16:2018)

- **treba biti**

HRN EN IEC 60404-16:2018  
Magnetski materijali – 16. dio: Metode mjerenja magnetskih svojstava Fe-bazirane amorfnе trake pomoću ispitivača **pojedinačnih limova** (IEC 60404-16:2018; EN IEC 60404-16:2018)  
Magnetic materials – Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester (IEC 60404-16:2018; EN IEC 60404-16:2018)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

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

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

HRN EN 4840-001:2018 en pr  
Zrakoplovstvo – Lijevani fazonski dijelovi koji se skupljaju na toplini – Dio 001: Tehnička specifikacija (EN 4840-001:2018)  
Aerospace series – Heat shrinkable moulded shapes – Part 001: Technical specification (EN 4840-001:2018)

HRN EN 4840-101:2018 en pr  
Zrakoplovstvo – Lijevani fazonski dijelovi koji se skupljaju na toplini – 101. dio: Poliolefin, polukrut, s ograničenom opasnošću od požara – Raspon temperature od -30 °C do 105 °C – Norma za proizvod (EN 4840-101:2018)  
Aerospace series – Heat shrinkable moulded shapes – Part 101: Polyolefin, semi-rigid, limited fire hazard – Temperature range -30 °C to 105 °C – Product standard (EN 4840-101:2018)

## 1.10 Prijevodi hrvatskih normativnih dokumenata

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

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

HRN EN ISO 14732:2014 hr-en pr-pp  
Zavarivačko osoblje – Provjera osposobljenosti rukovatelja zavarivanja i podešavatelja uređaja za mehanizirano i automatizirano zavarivanje metalnih materijala (ISO 14732:2013; EN ISO 14732:2013)  
Welding personnel – Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials (ISO 14732:2013; EN ISO 14732:2013)

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

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

HRN EN 13101:2007 hr-en pr-pp  
Penjalice za pristup čovjeka u podzemne komore – Zahtjevi, označavanje, ispitivanje i vrednovanje sukladnosti (EN 13101:2002)  
Steps for underground man entry chambers – Requirements, marking, testing and evaluation of conformity (EN 13101:2002)

## 2 Rezultati mednarodne i evropske normizacije

### Evropska normizacija (CEN)

Oznaka norme	Naslov norme	ICS	Datum objave
EN 206+A2	Concrete – Specification, performance, production and conformity	91.100.30	2021-03
EN 482	Workplace exposure – Procedures for the determination of the concentration of chemical agents – Basic performance requirements	13.040.30	2021-03
EN 528	Rail dependent storage and retrieval equipment – Safety requirements for S/R machines	53.080	2021-03
EN 1459-9	Rough-terrain trucks – Safety requirements and verification – Part 9: Variable-reach trucks equipped with work platforms having a front guard that can be opened	53.060	2021-03
EN 1501-1	Refuse collection vehicles – General requirements and safety requirements – Part 1: Rear loaded refuse collection vehicles	43.160	2021-03
EN 1501-2	Refuse collection vehicles – General requirements and safety requirements – Part 2: Side loaded refuse collection vehicles	43.160	2021-03
EN 1501-3	Refuse collection vehicles – General requirements and safety requirements – Part 3: Front loaded refuse collection vehicles	43.160	2021-03
EN 1501-5	Refuse collection vehicles – General requirements and safety requirements – Part 5: Lifting devices for refuse collection vehicles	43.160	2021-03
EN 1515-4	Flanges and their joints – Bolting – Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 2014/68/EU	21.060.10; 21.060.20; 23.040.60	2021-03
EN 1519-1/AC	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Polyethylene (PE) – Part 1: Requirements for pipes, fittings and the system	23.040.01; 91.140.80	2021-03
EN 1793-6+A1	Road traffic noise reducing devices – Test method for determining the acoustic performance – Part 6: Intrinsic characteristics – In situ values of airborne sound insulation under direct sound field conditions	17.140.30; 93.080.30	2021-03
EN 3475-512	Aerospace series – Cables, electrical, aircraft use – Test methods – Part 512: Flexure endurance	49.060	2021-03
EN 3572	Aerospace series – PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6800 kPa and 8°30' fitting in titanium – Product standard	49.080	2021-03
EN 3639	Aerospace series – Heat resisting alloy X6NiCrTiMoV26-15 (1.4980) – Softened and cold worked – Wires for forged fasteners – $D \leq 15$ mm – $900 \text{ MPa} \leq R_m \leq 1100 \text{ MPa}$	49.025.05	2021-03
EN 4035	Aerospace series – Rod end, adjustable, with self-aligning double row ball bearing, in corrosion resisting steel, reduced internal radial clearance and threaded shank in titanium alloy – Dimensions and loads	49.035	2021-03
EN 4036	Aerospace series – Rod end, adjustable, with self-aligning double row ball bearing and threaded shank, in corrosion resisting steel, reduced internal radial clearance – Dimensions and loads	49.035	2021-03
EN 6025	Aerospace series – Plates – Aluminium alloy 2024 – Close tolerances flatness – Thickness – $6 \text{ mm} < a \leq 55 \text{ mm}$ – Dimensions	49.025.20	2021-03
EN 6099	Aerospace series – Rod-end, spherical, plain bearing, metal to metal – Technical specification	49.035	2021-03



Oznaka norme	Naslov norme	ICS	Datum objave
CEN/TS 12007-6	Gas infrastructure – Pipelines for maximum operating pressure up to and including 16 bar – Part 6: Specific functional recommendations for unplasticized polyamide (PA-U)	23.040.20	2021-03
EN 12312-5	Aircraft ground support equipment – Specific requirements – Part 5: Aircraft fuelling equipment	49.100	2021-03
EN 12385-5	Steel wire ropes – Safety – Part 5: Stranded ropes for lifts	77.140.65	2021-03
EN 12390-18	Testing hardened concrete – Part 18: Determination of the chloride migration coefficient	91.100.30	2021-03
EN 13001-2	Crane safety – General design – Part 2: Load actions	53.020.20	2021-03
EN 13126-2	Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 2: Window fastener handles	91.190	2021-03
EN 13126-7	Building hardware – Hardware for windows and door height windows – Requirements and test methods – Part 7: Finger catches	91.190	2021-03
EN 13321-1	Open data communication in building automation, controls and building management – Home and building electronic system – Part 1: Product and system requirements	35.240.67; 97.120	2021-03
EN 13480-3/A1	Metallic industrial piping – Part 3: Design and calculation	23.040.01	2021-03
EN 13614	Bitumen and bituminous binders – Determination of adhesivity of bituminous emulsions by water immersion test	75.140; 91.100.50	2021-03
EN 13749	Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames	45.040	2021-03
EN 13852-3	Cranes – Offshore cranes – Part 3: Light offshore cranes	47.020.40; 53.020.20	2021-03
EN 14500	Blinds and shutters – Thermal and visual comfort – Test and calculation methods	91.060.50	2021-03
EN 14501	Blinds and shutters – Thermal and visual comfort – Performance characteristics and classification	91.060.50	2021-03
CEN/TS 15427-1-3	Railway applications – Wheel/Rail friction management – Part 1-3: Equipment and Application – Adhesion materials	45.040	2021-03
CEN/TS 15427-2-3	Railway applications – Wheel/Rail friction management – Part 2-3: Properties and Characteristics – Adhesion materials	45.040	2021-03
EN 15807	Railway applications – Pneumatic half couplings	45.040	2021-03
EN 16157-4	Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 4: VMS publication	35.240.60	2021-03
EN 16301	Natural stone test methods – Determination of sensitivity to accidental staining	73.020; 91.100.15	2021-03
EN 16351	Timber structures – Cross laminated timber – Requirements	79.060.10	2021-03
EN 16429	Stationary source emissions – Reference method for the determination of the concentration of gaseous hydrogen chloride (HCl) in waste gases emitted by industrial installations into the atmosphere	13.040.40	2021-03
EN 16942+A1	Fuels – Identification of vehicle compatibility – Graphical expression for consumer information	75.160.20	2021-03
EN 17334	Glued-in rods in glued structural timber products – Testing, requirements and bond shear strength classification	83.180	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
EN 17347	Road vehicles – Machines for mounting and demounting vehicle tyres – Safety requirements	43.020; 83.160.10	2021-03
EN 17371-1	Provision of services – Part 1: Service procurement – Guidance for the assessment of the capacity of service providers and evaluation of service proposals	03.080.20; 03.100.10	2021-03
EN 17372	Power operated pedestrian swing door drives with self closing function – Requirements and test methods	91.060.50	2021-03
EN 17416	Glass in building – Assessment of release of dangerous substances – Determination of emissions into indoor air from glass products	13.040.20; 81.040.20	2021-03
EN 17418	Two-component epoxy and polyurethane adhesives for on-site repair of cracked timber structures – Testing, requirements and repair strength verification	83.180	2021-03
CEN/TS 17445	Geosynthetics – Standard test for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products	59.080.70	2021-03
CEN/TS 17551	Fixed firefighting systems – Automatic sprinkler systems – Guidance for earthquake bracing	13.220.20	2021-03
CEN/TR 17559	Algae and algae products – Food and feed applications: General overview of limits, procedures and analytical methods	13.020.55; 65.120; 67.040	2021-03
CEN/TS 17606	Installation of refrigeration, air conditioning and heat pump equipment containing flammable refrigerants, complementing existing standards	23.080; 27.200; 91.140.30	2021-03
CEN/TS 17607	Operation, servicing, maintenance, repair and decommissioning of refrigeration, air conditioning and heat pump equipment containing flammable refrigerants, complementing existing standards	23.080; 27.200; 91.140.30	2021-03
CWA 17675	Mapping of the mandatory and voluntary carbon management framework in the EU	13.020.40	2021-03
EN ISO 1628-1	Plastics – Determination of the viscosity of polymers in dilute solution using capillary viscometers – Part 1: General principles (ISO 1628-1:2021)	83.080.01	2021-03
EN ISO 2719/A1	Determination of flash point – Pensky-Martens closed cup method – Amendment 1: Thermometers correction (ISO 2719:2016/Amd 1:2021)	75.080	2021-03
EN ISO 4120	Sensory analysis – Methodology – Triangle test (ISO 4120:2021)	67.240	2021-03
EN ISO 4823	Dentistry – Elastomeric impression and bite registration materials (ISO 4823:2021)	11.060.10	2021-03
EN ISO 4918	Resilient, textile and laminate floor coverings – Castor chair test (ISO 4918:2016)	97.150	2021-03
EN ISO 6540	Maize – Determination of moisture content (on milled grains and on whole grains) (ISO 6540:2021)	67.060	2021-03
EN ISO 6721-3	Plastics – Determination of dynamic mechanical properties – Part 3: Flexural vibration – Resonance-curve method (ISO 6721-3:2021)	83.080.01	2021-03
EN ISO 7840	Small craft – Fire-resistant fuel hoses (ISO 7840:2021)	47.080	2021-03
EN ISO 8469	Small craft – Non-fire-resistant fuel hoses (ISO 8469:2021)	47.080	2021-03
EN ISO 10225	Gas welding equipment – Marking for equipment used for gas welding, cutting and allied processes (ISO 10225:2013)	25.160.30	2021-03
EN ISO 10993-23	Biological evaluation of medical devices – Part 23: Tests for irritation (ISO 10993-23:2021)	11.100.20	2021-03
EN ISO 11357-8	Plastics – Differential scanning calorimetry (DSC) – Part 8: Determination of thermal conductivity (ISO 11357-8:2021)	83.080.01	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 11426	Jewellery and precious metals – Determination of gold – Cupellation method (fire assay) (ISO 11426:2021)	39.060	2021-03
EN ISO 11904-2	Acoustics – Determination of sound immission from sound sources placed close to the ear – Part 2: Technique using a manikin (ISO 11904-2:2021)	13.140	2021-03
EN ISO 12004-2	Metallic materials – Determination of forming-limit curves for sheet and strip – Part 2: Determination of forming-limit curves in the laboratory (ISO 12004-2:2021)	77.040.10	2021-03
EN ISO 14091	Adaptation to climate change – Guidelines on vulnerability, impacts and risk assessment (ISO 14091:2021)	13.020.30; 13.020.40	2021-03
EN ISO 14819-1	Intelligent transport systems – Traffic and travel information messages via traffic message coding – Part 1: Coding protocol for Radio Data System – Traffic Message Channel (RDS-TMC) using ALERT-C (ISO 14819-1:2021)	03.220.20; 35.240.60	2021-03
EN ISO 14819-2	Intelligent transport systems – Traffic and travel information messages via traffic message coding – Part 2: Event and information codes for Radio Data System-Traffic Message Channel (RDS-TMC) using ALERT-C (ISO 14819-2:2021)	03.220.20; 35.240.60	2021-03
EN ISO 15663	Petroleum, petrochemical and natural gas industries – Life cycle costing (ISO 15663:2021)	75.020	2021-03
EN ISO 16061	Instruments for use in association with non-active surgical implants – General requirements (ISO 16061:2021)	11.040.40; 11.040.99	2021-03
EN ISO 16929	Plastics – Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test (ISO 16929:2021)	83.080.01	2021-03
EN ISO 17130	Leather – Physical and mechanical tests – Determination of dimensional change (ISO 17130:2021)	59.140.30	2021-03
EN ISO 17225-3	Solid biofuels – Fuel specifications and classes – Part 3: Graded wood briquettes (ISO 17225-3:2021)	27.190; 75.160.40	2021-03
EN ISO 17225-4	Solid biofuels – Fuel specifications and classes – Part 4: Graded wood chips (ISO 17225-4:2021)	27.190; 75.160.40	2021-03
EN ISO 17226-1	Leather – Chemical determination of formaldehyde content – Part 1: Method using high-performance liquid chromatography (ISO 17226-1:2021)	59.140.30	2021-03
EN ISO 17279-3	Welding – Micro joining of second generation high temperature superconductors – Part 3: Test methods for joints (ISO 17279-3:2021)	25.160.01	2021-03
EN ISO 17562	Fine ceramics (advanced ceramics, advanced technical ceramics) – Test method for linear thermal expansion of monolithic ceramics by push-rod technique (ISO 17562:2016)	81.060.30	2021-03
EN ISO 17677-1	Resistance welding – Vocabulary – Part 1: Spot, projection and seam welding (ISO 17677-1:2021)	01.040.25; 25.160.10	2021-03
EN ISO 19135-1/A1	Geographic information – Procedures for item registration – Part 1: Fundamentals – Amendment 1 (ISO 19135-1:2015/Amd 1:2021)	35.240.70	2021-03
EN ISO 19363	Electrically propelled road vehicles – Magnetic field wireless power transfer – Safety and interoperability requirements (ISO 19363:2020)	43.120	2021-03
EN ISO 19628	Fine ceramics (advanced ceramics, advanced technical ceramics) – Thermophysical properties of ceramic composites – Determination of specific heat capacity (ISO 19628:2017)	81.060.30	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
EN ISO 19734	Eye and face protection – Guidance on selection, use and maintenance (ISO 19734:2021)	13.340.20	2021-03
EN ISO 19879	Metallic tube connections for fluid power and general use – Test methods for hydraulic fluid power connections (ISO 19879:2021)	23.040.60; 23.100.40	2021-03
EN ISO 19918/A1	Protective clothing – Protection against chemicals – Measurement of cumulative permeation of chemicals with low vapour pressure through materials – Amendment 1: Extraction and chemical analysis (ISO 19918:2017/Amd 1:2021)	13.340.10	2021-03
CEN ISO/TS 21184	Cooperative intelligent transport systems (C-ITS) – Global transport data management (GTDM) framework (ISO/TS 21184:2021)	03.220.01; 35.240.60	2021-03
EN ISO 21187	Milk – Quantitative determination of microbiological quality – Guidance for establishing and verifying a conversion relationship between results of an alternative method and anchor method results (ISO 21187:2021)	07.100.30; 67.100.01	2021-03
EN ISO 21656	Solid recovered fuels – Determination of ash content (ISO 21656:2021)	75.160.10	2021-03
EN ISO 21660-3	Solid recovered fuels – Determination of moisture content using the oven dry method – Part 3: Moisture in general analysis sample (ISO 21660-3:2021)	75.160.10	2021-03
EN ISO 21912	Solid recovered fuels – Safe handling and storage of solid recovered fuels (ISO 21912:2021)	75.160.10	2021-03
EN ISO 22167	Solid recovered fuels – Determination of content of volatile matter (ISO 22167:2021)	75.160.10	2021-03
EN ISO 22300	Security and resilience – Vocabulary (ISO 22300:2021)	01.040.03; 03.100.01	2021-03
EN ISO 22818	Textiles – Determination of short-chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS) (ISO 22818:2021)	59.060.01	2021-03
EN ISO 22826	Destructive tests on welds in metallic materials – Hardness testing of narrow joints welded by laser and electron beam (Vickers and Knoop hardness tests) (ISO 22826:2005)	25.160.40	2021-03
EN ISO 22868	Forestry and gardening machinery – Noise test code for portable hand-held machines with internal combustion engine – Engineering method (Grade 2 accuracy) (ISO 22868:2021)	13.140; 17.140.20; 65.060.80	2021-03
EN ISO 25619-1	Geosynthetics – Determination of compression behaviour – Part 1: Compressive creep properties (ISO 25619-1:2021)	59.080.70	2021-03
EN ISO 27587	Leather – Chemical tests – Determination of free formaldehyde in process auxiliaries (ISO 27587:2021)	59.140.30	2021-03
EN ISO 28080	Hardmetals – Abrasion tests for hardmetals (ISO 28080:2021)	77.040.10; 77.160	2021-03
CEN ISO/TR 41013	Facility management – Scope, key concepts and benefits (ISO/TR 41013:2017)	03.080.10	2021-03
EN ISO/ASTM 52903-1	Additive manufacturing – Material extrusion-based additive manufacturing of plastic materials – Part 1: Feedstock materials (ISO/ASTM 52903-1:2020)	25.030	2021-03

## Europska normizacija (CENELEC)

Oznaka norme	Naslov norme	ICS	Datum objave
CEN-CENELEC Guide 34	CEN and CENELEC representation in official meetings	01.120	2021-03
EN 50110-2	Operation of electrical installations – Part 2: National annexes	29.240.01	2021-03
CLC/TS 50459-1	Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver- Machine Interface – Part 1: General principles for the presentation of ERTMS/ETCS/GSM-R information	03.220.30; 13.180; 35.240.60	2021-03
CLC/TS 50459-2	Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Part 2: Ergonomic arrangements of GSM-R information	03.220.30; 13.180; 35.240.60	2021-03
CLC/TS 50459-3	Railway applications – Communication, signalling and processing systems – European Rail Traffic Management System – Part 3: Ergonomic arrangements of non ETCS information	03.220.30; 13.180; 35.240.60	2021-03
CLC/TS 50600-2-10	Information technology – Data centre facilities and infrastructures – Part 2-10: Earthquake risk and impact analysis	35.020; 35.110; 35.160	2021-03
EN IEC 55014-1	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2020)	33.100.10	2021-03
EN IEC 55014-2	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard (CISPR 14-2:2020)	33.100.20	2021-03
EN IEC 60076-22-5	Power transformers – Part 22-5: Power transformer and reactor fittings – Electric pumps for transformers (IEC 60076-22-5:2021)	29.180	2021-03
EN IEC 60076-22-6	Power transformers – Part 22-6: Power transformer and reactor fittings – Electric fans for transformers (IEC 60076-22-6:2021)	29.180	2021-03
EN 60320-1/A1	Appliance couplers for household and similar general purposes – Part 1: General requirements (IEC 60320-1:2015/A1:2018)	29.120.30	2021-03
EN IEC 60320-2-1	Appliance couplers for household and similar general purposes – Part 2-1: Sewing machine couplers (IEC 60320-2-1:2018)	29.120.30	2021-03
EN IEC 60320-2-3	Appliance couplers for household and similar general purposes – Part 2-3: Appliance couplers with a degree of protection higher than IPX0 (IEC 60320-2-3:2018)	29.120.30	2021-03
EN IEC 60320-2-4	Appliance couplers for household and similar general purposes – Part 2-4: Couplers dependent on appliance weight for engagement (IEC 60320-2-4:2018)	29.120.20; 29.120.30	2021-03
EN 60320-3/A1	Appliance couplers for household and similar general purposes – Part 3: Standard sheets and gauges (IEC 60320-3:2014/A1:2018)	29.120.30	2021-03
EN IEC 60584-3	Thermocouples – Part 3: Extension and compensating cables – Tolerances and identification system (IEC 60584-3:2021)	17.200.20	2021-03
EN IEC 60598-1	Luminaires – Part 1: General requirements and tests (IEC 60598-1:2020)	29.140.40	2021-03
EN 60601-1-2/A1	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests (IEC 60601-1-2:2014/A1:2020)	11.040.01; 33.100.10; 33.100.20	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
EN 60601-1-3/A2	Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment (IEC 60601-1-3:2008/A2:2021)	11.040.50; 13.280	2021-03
EN 60730-2-5/A2	Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2013/A2:2021)	97.120	2021-03
EN IEC 60793-1-34	Optical fibres – Part 1-34: Measurement methods and test procedures – Fibre curl (IEC 60793-1-34:2021)	33.180.10	2021-03
EN IEC 60794-1-211	Optical fibre cables – Part 1-211: Generic specification – Basic optical cable test procedures – Environmental test methods – Sheath shrinkage, method F11 (IEC 60794-1-211:2021)	33.180.10	2021-03
EN IEC 60794-3-12	Optical fibre cables – Part 3-12: Outdoor cables – Detailed specification for duct and directly buried optical telecommunication cables for use in premises cabling (IEC 60794-3-12:2021)	33.180.10	2021-03
EN IEC 60799	Electrical accessories – Cord sets and interconnection cord sets (IEC 60799:2018)	29.060.20; 29.120.30	2021-03
EN IEC 60958-5	Digital audio interface – Part 5: Consumer application enhancement (IEC 60958-5:2021)	33.160.01; 33.160.30	2021-03
EN IEC 61000-6-3	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for equipment in residential environments (IEC 61000-6-3:2020)	33.100.10	2021-03
EN IEC 61188-6-2	Circuit boards and circuit board assemblies – Design and use – Part 6-2: Land pattern design – Description of land pattern for the most common surface mounted components (SMD) (IEC 61188-6-2:2021)	31.180; 31.190	2021-03
EN IEC 61189-5-501	Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-501: General test methods for materials and assemblies – Surface insulation resistance (SIR) testing of solder fluxes (IEC 61189-5-501:2021)	31.180	2021-03
EN IEC 61189-5-502	Test methods for electrical materials, printed board and other interconnection structures and assemblies – Part 5-502: General test methods for materials and assemblies – Surface insulation resistance (SIR) testing of assemblies (IEC 61189-5-502:2021)	31.180	2021-03
EN IEC 61189-5-601	Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-601: General test methods for materials and assemblies – Reflow soldering ability test for solder joint, and reflow heat resistance test for printed boards (IEC 61189-5-601:2021)	31.180	2021-03
EN IEC 61215-1-2	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules (IEC 61215-1-2:2021)	27.160	2021-03
EN IEC 61300-2-14	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-14: Tests – High optical power (IEC 61300-2-14:2021)	33.180.20	2021-03
EN IEC 61760-3	Surface mounting technology – Part 3: Standard method for the specification of components for through-hole reflow (THR) soldering (IEC 61760-3:2021)	31.020; 31.190	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
EN IEC 61784-3	Industrial communication networks – Profiles – Part 3: Functional safety fieldbuses – General rules and profile definitions (IEC 61784-3:2021)	25.040.40; 35.100.05; 35.160; 35.240.50	2021-03
EN IEC 61924-2	Maritime navigation and radiocommunication equipment and systems – Integrated navigation systems (INS) – Part 2: Modular structure for INS – Operational and performance requirements, methods of testing and required test results (IEC 61924-2:2021)	47.020.70	2021-03
EN IEC 62149-3/AC	Fibre optic active components and devices – Performance standards – Part 3: Modulator-integrated laser diode transmitters for 40-Gbit/s fibre optic transmission systems (IEC 62149-3:2020/COR1:2021)	33.180.30	2021-03
EN IEC 62281/A1	Safety of primary and secondary lithium cells and batteries during transport (IEC 62281:2019/A1:2021)	29.220.01; 29.220.10	2021-03
EN 62591/AC	Industrial communication networks – Wireless communication network and communication profiles – WirelessHARTTM (IEC 62591:2016/COR1:2021)	25.040.40; 35.100.05; 35.160; 35.240.50	2021-03
EN 62601/AC	Industrial networks – Wireless communication network and communication profiles – WIA-PA (IEC 62601:2015/COR1:2021)	25.040.40; 35.100.05; 35.110; 35.240.50	2021-03
EN IEC 62680-1-3	Universal serial bus interfaces for data and power – Part 1-3: Common components – USB Type-C(r) Cable and Connector Specification (IEC 62680-1-3:2021)	33.120.20; 33.120.30; 35.200	2021-03
EN IEC 62769-1	Field Device Integration (FDI) – Part 1: Overview (IEC 62769-1:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-2	Field Device Integration (FDI) – Part 2: FDI Client (IEC 62769-2:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-3	Field Device Integration (FDI) – Part 3: Server (IEC 62769-3:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-4	Field Device Integration (FDI) – Part 4: FDI Packages (IEC 62769-4:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-5	Field Device Integration (FDI) – Part 5: Information Model (IEC 62769-5:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-6	Field Device Integration (FDI) – Part 6: Technology Mapping (IEC 62769-6:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-7	Field Device Integration (FDI) – Part 7: Communication devices (IEC 62769-7:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62769-150-1	Field device integration (FDI) – Part 150-1: Profiles – ISA100 WIRELESS (IEC 62769-150-1:2021)	25.040.40; 35.100.05; 35.240.50	2021-03
EN IEC 62787	Concentrator photovoltaic (CPV) solar cells and cell on carrier (CoC) assemblies – Qualification (IEC 62787:2021)	27.160	2021-03
EN 62948/AC	Industrial networks – Wireless communication network and communication profiles – WIA-FA (IEC 62948:2017/COR1:2021)	25.040.40; 35.100.05; 35.110	2021-03

## Europska normizacija (ETSI)

Oznaka norme	Naslov norme	ICS	Datum objave
ETSI SR 000314 V 2.29.1	Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards	01.120; 03.140; 33.020	2021-03
ETSI TS 100394-1 V 4.1.1	Terrestrial Trunked Radio (TETRA) – Testing specification – Part 1: Radio	33.070.10	2021-03
ETSI TS 101331 V 1.7.1	Lawful Interception (LI) – Requirements of Law Enforcement Agencies	33.040.35	2021-03
ETSI TS 102232-1 V 3.23.1	Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery	33.040.35	2021-03
ETSI TS 102588 V 16.0.0	Smart Cards – Application invocation Application Programming Interface (API) by a UICC webserver for Java Card platform (Release 16)	35.240.15	2021-03
ETSI TS 102588 V 17.0.0	Smart Cards – Application invocation Application Programming Interface (API) by a UICC webserver for Java Card platform (Release 17)	35.240.15	2021-03
ETSI TS 102723-9 V 1.1.1	Intelligent Transport Systems (ITS) – OSI cross-layer topics – Part 9: Interface between security entity and facilities layer	35.240.60	2021-03
ETSI TS 103120 V 1.8.1	Lawful Interception (LI) – Interface for warrant information	33.040.35	2021-03
ETSI TS 103280 V 2.5.1	Lawful Interception (LI) – Dictionary for common parameters	33.040.35	2021-03
ETSI TS 103301 V 2.1.1	Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Facilities layer protocols and communication requirements for infrastructure services – Release 2	35.240.60	2021-03
ETSI TR 103639 V 1.1.1	Speech and multimedia Transmission Quality (STQ) – Timeslicing KPIs for RTP based speech transmission	33.040.01	2021-03
ETSI TS 103707 V 1.2.1	Lawful Interception (LI) – Handover for messaging services over HTTP/XML	33.040.35	2021-03
ETSI TS 103735 V 1.1.1	SmartM2M – Smart Lifts IoT System	33.200	2021-03
ETSI TS 119182-1 V 1.1.1	Electronic Signatures and Infrastructures (ESI) – JAdES digital signatures – Part 1: Building blocks and JAdES baseline signatures	33.040.01	2021-03
ETSI GS CDM 002 V 1.1.1	Common information sharing environment service and Data Model (CDM) – System Requirements definition	35.080; 35.240.01	2021-03
ETSI GS CIM 012 V 1.1.1	Context Information Management (CIM) – NGSI-LD Test Suite Structure	35.080; 35.240.01	2021-03
ETSI GR ENI 008 V 2.1.1	Experiential Networked Intelligence (ENI) – InTent Aware Network Autonomicity (ITANA)	35.080; 35.110	2021-03
ETSI GR ENI 010 V 1.1.1	Experiential Networked Intelligence (ENI) – Evaluation of categories for AI application to Networks	35.080; 35.110	2021-03
ETSI GR mWT 025 V 1.1.1	Wireless Backhaul Network and Services Automation: SDN SBI YANG models	35.110	2021-03
ETSI GR NFV 001 V 1.3.1	Network Functions Virtualisation (NFV) – Use Cases	33.040.40; 35.110	2021-03
ETSI GR NFV 003 V 1.6.1	Network Functions Virtualisation (NFV) – Terminology for Main Concepts in NFV	33.040.40; 35.110	2021-03
ETSI GR NIN 001 V 1.1.1	Non-IP Networking (NIN) – Problem statement: networking with TCP/IP in the 2020s	35.110	2021-03
ETSI GR NIN 002 V 1.1.1	Non-IP Networking (NIN) – Implementing Non-IP networking over 3GPP cellular access	35.110	2021-03
ETSI GR NIN 003 V 1.1.1	Non-IP Networking (NIN) – Flexilink network model	35.110	2021-03
ETSI GR SAI 005 V 1.1.1	Securing Artificial Intelligence (SAI) – Mitigation Strategy Report	35.030; 35.240.01	2021-03



Oznaka norme	Naslov norme	ICS	Datum objave
ETSI GS MEC 014 V 2.1.1	Multi-access Edge Computing (MEC) – UE Identity API	33.070.99	2021-03
ETSI GS QKD 015 V 1.1.1	Quantum Key Distribution (QKD) – Control Interface for Software Defined Networks	35.240.15	2021-03
EN 301489-50 V 2.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment – Harmonised Standard for ElectroMagnetic Compatibility	33.060.20	2021-03
EN 301549 V 3.2.1	Accessibility requirements for ICT products and services	03.100.10; 13.180; 33.020; 35.020	2021-03
EN 303204 V 3.1.1	Fixed Short Range Devices (SRD) in data networks – Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW e.r.p. – Harmonised Standard for access to the radio spectrum	33.060.20	2021-03

## Međunarodna normizacija (ISO)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC/TR 63258	Nanotechnologies – A guideline for ellipsometry application to evaluate the thickness of nanoscale films	07.120	2021-03
IWA 33-3	Technical guidelines for the development of small hydropower plants – Part 3: Design principles and requirements	27.140	2021-03
IWA 34	Women's entrepreneurship – Key definitions and general criteria	01.040.03; 03.100.01	2021-03
ISO 771	Oilseed meals – Determination of moisture and volatile matter content	67.200.20	2021-03
ISO 844	Rigid cellular plastics – Determination of compression properties	83.100	2021-03
ISO 1432	Rubber, vulcanized or thermoplastic – Determination of low-temperature stiffening (Gehman test)	83.060	2021-03
ISO 2719 AMD 1	Determination of flash point – Pensky-Martens closed cup method – Amendment 1: Thermometers correction	75.080	2021-03
ISO 3185	Aerospace – Bolts, normal bihexagonal head, normal shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa – Dimensions	49.030.20	2021-03
ISO 3262-19	Extenders – Specifications and methods of test – Part 19: Precipitated silica	87.060.10	2021-03
ISO 3262-20	Extenders – Specifications and methods of test – Part 20: Fumed silica	87.060.10	2021-03
ISO 4120	Sensory analysis – Methodology – Triangle test	67.240	2021-03
ISO 4664-3	Rubber, vulcanized or thermoplastic – Determination of dynamic properties – Part 3: Glass transition temperature (Tg)	83.060	2021-03
ISO 5149-3 AMD 1	Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site – Amendment 1: Update of the requirements for machinery rooms and emergency mechanical ventilation	27.080; 27.200	2021-03
ISO 5179	Investigation of brazeability with spreading and gap-filling test	25.160.50	2021-03
ISO 5775-2	Bicycle tyres and rims – Part 2: Rims	43.150	2021-03
ISO 6410-3	Technical drawings – Screw threads and threaded parts – Part 3: Simplified representation	01.100.20; 21.040.01	2021-03
ISO 6727	Road vehicles – Motorcycles and mopeds – Symbols for controls, indicators and tell-tales	01.080.20; 43.140	2021-03
ISO 6927	Building and civil engineering sealants – Vocabulary	01.040.91; 91.100.50	2021-03
ISO 7915	Forestry machinery – Portable chain-saws – Determination of handle strength	65.060.80	2021-03
ISO 8205	Resistance welding equipment – Water-cooled secondary connection cables	25.160.30	2021-03
ISO 9046	Building and civil engineering sealants – Determination of adhesion/cohesion properties at constant temperature	91.100.50	2021-03
ISO 9932	Paper and board – Determination of water vapour transmission rate of sheet materials – Dynamic sweep and static gas methods	85.060	2021-03
ISO 10013	Quality management systems – Guidance for documented information	03.120.10	2021-03
ISO 10245-1	Cranes – Limiting and indicating devices – Part 1: General	53.020.20	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 10303-1	Industrial automation systems and integration – Product data representation and exchange – Part 1: Overview and fundamental principles	25.040.40	2021-03
ISO 10952	Glass-reinforced thermosetting plastics (GRP) pipes and fittings – Determination of the resistance to chemical attack for the inside of a section in a deflected condition	23.040.20; 23.040.45	2021-03
ISO 11298-4	Plastics piping systems for renovation of underground water supply networks – Part 4: Lining with cured-in-place pipes	23.040.20; 23.040.45; 93.025	2021-03
ISO 11426	Jewellery and precious metals – Determination of gold – Cupellation method (fire assay)	39.060	2021-03
ISO 11665-4	Measurement of radioactivity in the environment – Air: radon-222 – Part 4: Integrated measurement method for determining average activity concentration using passive sampling and delayed analysis	13.040.01; 17.240	2021-03
ISO 11901-5	Tools for pressing – Gas springs – Part 5: Safety instructions for gas springs	25.120.10	2021-03
ISO 11904-2	Acoustics – Determination of sound immission from sound sources placed close to the ear – Part 2: Technique using a manikin	13.140	2021-03
ISO 12511 AMD 1	Earth-moving machinery – Hour meters; Amendment 1	39.040.99; 53.100	2021-03
ISO 13319-1	Determination of particle size distribution – Electrical sensing zone method – Part 1: Aperture/orifice tube method	19.120	2021-03
ISO 13638	Building and civil engineering sealants – Determination of resistance to prolonged exposure to water	91.100.50	2021-03
ISO 13736	Determination of flash point – Abel closed-cup method	75.080	2021-03
ISO 13779-3 AMD 1	Implants for surgery – Hydroxyapatite – Part 3: Chemical analysis and characterization of crystallinity ratio and phase purity; Amendment 1	11.040.40	2021-03
ISO 14031	Environmental management – Environmental performance evaluation – Guidelines	13.020.10	2021-03
ISO 14490-3	Optics and photonics – Test methods for telescopic systems – Part 3: Test methods for telescopic sights	37.020	2021-03
ISO 14707	Surface chemical analysis – Glow discharge optical emission spectrometry (GD-OES) – Introduction to use	71.040.40	2021-03
ISO 14819-1	Intelligent transport systems – Traffic and travel information messages via traffic message coding – Part 1: Coding protocol for Radio Data System-Traffic Message Channel (RDS-TMC) using ALERT-C	03.220.20; 35.240.60	2021-03
ISO 14907-2	Electronic fee collection – Test procedures for user and fixed equipment – Part 2: Conformance test for the on-board unit application interface	35.240.60; 43.040.15	2021-03
ISO 15216-1 AMD 1	Microbiology of the food chain – Horizontal method for determination of hepatitis A virus and norovirus using real-time RT-PCR – Part 1: Method for quantification; Amendment 1	07.100.30	2021-03
ISO 15368	Optics and photonics – Measurement of reflectance of plane surfaces and transmittance of plane parallel elements	17.180.01	2021-03
ISO 15886-3	Agricultural irrigation equipment – Sprinklers – Part 3: Characterization of distribution and test methods	65.060.35	2021-03
ISO/TR 15969	Surface chemical analysis – Depth profiling – Measurement of sputtered depth	71.040.40	2021-03
ISO 16061	Instruments for use in association with non-active surgical implants – General requirements	11.040.40; 11.040.99	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 16181-1	Footwear – Critical substances potentially present in footwear and footwear components – Part 1: Determination of phthalate with solvent extraction	61.060	2021-03
ISO 16287	Plain bearings – Thermoplastic bushes – Dimensions and tolerances	21.100.10	2021-03
ISO 16321-1	Eye and face protection for occupational use – Part 1: General requirements	13.340.20	2021-03
ISO 16321-2	Eye and face protection for occupational use – Part 2: Additional requirements for protectors used during welding and related techniques	13.340.20	2021-03
ISO 16321-3	Eye and face protection for occupational use – Part 3: Additional requirements for mesh protectors	13.340.20	2021-03
ISO 16711	Requirements for seismic assessment and retrofit of concrete structures	91.100.30	2021-03
ISO 16781	Space systems – Simulation requirements for control system	49.140	2021-03
ISO 16929	Plastics – Determination of the degree of disintegration of plastic materials under defined composting conditions in a pilot-scale test	83.080.01	2021-03
ISO/TS 16951	Road vehicles – Ergonomic aspects of transport information and control systems (TICS) – Procedures for determining priority of on-board messages presented to drivers	13.180; 35.240.60; 43.040.15	2021-03
ISO 17090-3	Health informatics – Public key infrastructure – Part 3: Policy management of certification authority	35.240.80	2021-03
ISO 18527-1	Eye and face protection for sports use – Part 1: Requirements for downhill skiing and snowboarding goggles	13.340.20; 97.220.20	2021-03
ISO 18527-2	Eye and face protection for sports use – Part 2: Requirements for eye protectors for squash and eye protectors for racquetball and squash 57	13.340.20; 97.220.30; 97.220.40	2021-03
ISO 18808	Agricultural tyres for construction machines	83.160.99; 91.220	2021-03
ISO 19085-1	Woodworking machines – Safety – Part 1: Common requirements	13.110; 79.120.10	2021-03
ISO 19085-12	Woodworking machines – Safety – Part 12: Tenoning/profiling machines	13.110; 79.120.10	2021-03
ISO 19879	Metallic tube connections for fluid power and general use – Test methods for hydraulic fluid power connections	23.040.60; 23.100.40	2021-03
ISO 19901-10	Petroleum and natural gas industries – Specific requirements for offshore structures – Part 10: Marine geophysical investigations	75.180.10	2021-03
ISO 19905-3	Petroleum and natural gas industries – Site-specific assessment of mobile offshore units – Part 3: Floating units	75.180.10	2021-03
ISO 20784	Sensory analysis – Guidance on substantiation for sensory and consumer product claims	67.240	2021-03
ISO/TS 21184	Cooperative intelligent transport systems (C-ITS) – Global transport data management (GTDM) framework	03.220.01; 35.240.60	2021-03
ISO/TS 21346	Nanotechnologies – Characterization of individualized cellulose nanofibril samples	07.120	2021-03
ISO/TS 21356-1	Nanotechnologies – Structural characterization of graphene – Part 1: Graphene from powders and dispersions	07.120	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
ISO/TS 21383	Microbeam analysis – Scanning electron microscopy – Qualification of the scanning electron microscope for quantitative measurements	37.020	2021-03
ISO/TS 21397	FTIR analysis of fire effluents in cone calorimeter tests	13.220.01	2021-03
ISO 21498-2	Electrically propelled road vehicles – Electrical specifications and tests for voltage class B systems and components – Part 2: Electrical tests for components	43.120	2021-03
ISO 21500	Project, programme and portfolio management – Context and concepts	03.100.40	2021-03
ISO 21645	Solid recovered fuels – Methods for sampling	75.160.10	2021-03
ISO 21660-3	Solid recovered fuels – Determination of moisture content using the oven dry method – Part 3: Moisture in general analysis sample	75.160.10	2021-03
ISO 21857	Petroleum, petrochemical and natural gas industries – Prevention of corrosion on pipeline systems influenced by stray currents	75.200	2021-03
ISO 22042	Blast chiller and freezer cabinets for professional use – Classification, requirements and test conditions	97.130.20	2021-03
ISO 22074-2	Railway infrastructure – Rail fastening systems – Part 2: Test method for longitudinal rail restraint	45.080	2021-03
ISO 22074-3	Railway infrastructure – Rail fastening systems – Part 3: Proof load test method for pull-out resistance	45.080	2021-03
ISO 22074-6	Railway infrastructure – Rail fastening systems – Part 6: Test method for resistance to severe environmental conditions	45.080	2021-03
ISO 22167	Solid recovered fuels – Determination of content of volatile matter	75.160.10	2021-03
ISO 22282-4	Geotechnical investigation and testing – Geohydraulic testing – Part 4: Pumping tests	93.020	2021-03
ISO/TS 22456	Sterilization of healthcare products – Microbiological methods – Guidance on conducting bioburden determinations and tests of sterility for biologics and tissue-based products	07.100.10; 11.080.01	2021-03
ISO 22553-13	Paints and varnishes – Electro-deposition coatings – Part 13: Determination of re-solving behaviour	87.040	2021-03
ISO 22553-14	Paints and varnishes – Electro-deposition coatings – Part 14: Deposition behaviour	87.040	2021-03
ISO 22581	Surface chemical analysis – Near real-time information from the X-ray photoelectron spectroscopy survey scan – Rules for identification of, and correction for, surface contamination by carbon-containing compounds	71.040.40	2021-03
ISO 22608	Protective clothing – Protection against liquid chemicals – Measurement of repellency, retention, and penetration of liquid pesticide formulations through protective clothing materials	13.340.10	2021-03
ISO 22705-1	Springs – Measurement and test parameters – Part 1: Cold formed cylindrical helical compression springs	21.160	2021-03
ISO 22818	Textiles – Determination of short-chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS)	59.060.01	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 22863-4	Fireworks – Test methods for determination of specific chemical substances – Part 4: Analysis of lead and lead compounds by X-ray fluorescence spectrometry (XRF)	71.100.30	2021-03
ISO 22863-5	Fireworks – Test methods for determination of specific chemical substances – Part 5: Analysis of lead and lead compounds by inductively coupled plasma spectrometry (ICP)	71.100.30	2021-03
ISO 22982-1	Transport packaging – Temperature-controlled transport packages for parcel shipping – Part 1: General requirements	55.020	2021-03
ISO 22982-2	Transport Packaging – Temperature controlled transport packages for parcel shipping – Part 2: General specifications of testing	55.020	2021-03
ISO 22994	Coffee extracts – Determination of the dry matter content of coffee extracts – Sea sand method of liquid or pasty coffee extracts	67.140.20	2021-03
ISO 23043	Evaluation methods for industrial wastewater treatment reuse processes	13.030.20; 13.030.40	2021-03
ISO 23075	Vulcanized rubbers – Determination of antidegradants by high-performance liquid chromatography	83.060	2021-03
ISO 23156	Ferronickels – Determination of phosphorus, manganese, chromium, copper and cobalt contents – Inductively coupled plasma optical emission spectrometric method	77.100; 77.120.40	2021-03
ISO 23212	Ships and marine technology – Flange connection for fuel and lubrication oil bunkering – Basic dimensions and technical requirements	47.020.30	2021-03
ISO 23322	Paints and varnishes – Determination of solvents in coating materials containing organic solvents only – Gas-chromatographic method	87.040	2021-03
ISO 23431	Measurement of road tunnel air quality	13.040.20; 93.060	2021-03
ISO 23450	Dentistry – Intraoral camera	11.060.20	2021-03
ISO 23512	Plastics – Joining of thermoplastic moulded components – Specification of variables for thermal joining processes	83.080.20	2021-03
ISO 23523	Test methods for discrete polymer fibre for fibre-reinforced cementitious composites	83.120; 91.100.30	2021-03
ISO 23577	Ships and marine technology – Cargo securing systems on ships – Vocabulary	01.040.47; 47.020.40	2021-03
ISO/TS 23625	Small craft – Lithium-ion batteries	47.080	2021-03
ISO 23662	Definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims	67.040	2021-03
ISO 23700	Wrought magnesium and magnesium alloys – Rolled plates and sheets	77.120.20	2021-03
ISO 23741	Plastics – Determination of spray water delivery during spray cycles when using a xenon arc weathering test apparatus	83.080.01	2021-03
ISO/TS 23818-3	Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines – Part 3: Unplasticised poly(vinyl chloride) (PVC-U) material	23.040.20	2021-03
ISO/TS 24178	Human resource management – Organizational culture metrics cluster	03.100.30	2021-03
ISO/TR 24291	Health informatics – Applications of machine learning technologies in imaging and other medical applications	35.240.80	2021-03

Oznaka norme	Naslov norme	ICS	Datum objave
ISO 24353 AMD 1	Hygrothermal performance of building materials and products – Determination of moisture adsorption/desorption properties in response to humidity variation; Amendment 1	91.100.01	2021-03
ISO 24528	Service activities relating to drinking water supply, wastewater and stormwater systems – Guideline for a water loss investigation of drinking water distribution networks	13.060.01; 13.060.20	2021-03
ISO 24578	Hydrometry – Acoustic Doppler profiler – Method and application for measurement of flow in open channels from a moving boat	17.120.20	2021-03
ISO 24613-3	Language resource management – Lexical markup framework (LMF) – Part 3: Etymological extension	01.020	2021-03
ISO 28199-1	Paints and varnishes – Evaluation of properties of coating systems related to the spray application process – Part 1: Vocabulary and preparation of test panels	87.040	2021-03
ISO 28399	Dentistry – External tooth bleaching products	97.170	2021-03
ISO/TS 30425	Human resource management – Workforce availability metrics cluster	03.100.30	2021-03
ISO/TS 30427	Human resource management – Costs metrics cluster	03.100.30	2021-03
ISO/TS 30431	Human resource management – Leadership metrics cluster	03.100.30	2021-03
ISO/TS 30432	Human resource management – Workforce productivity metrics cluster	03.100.30	2021-03
ISO/TS 37137-1	Biological evaluation of absorbable medical devices – Part 1: General requirements	11.040.40	2021-03
ISO 50009	Energy management systems – Guidance for implementing a common energy management system in multiple organizations	03.100.70; 27.015	2021-03
ISO/TS 80004-6	Nanotechnologies – Vocabulary – Part 6: Nano-object characterization	01.040.07; 07.120	2021-03
ISO 81001-1	Health software and health IT systems safety, effectiveness and security – Part 1: Principles and concepts	35.240.80	2021-03

## Međunarodna normizacija (IEC)

Oznaka norme	Naslov norme	ICS	Datum objave
IEC Guide 115	Application of uncertainty of measurement to conformity assessment activities in the electrotechnical sector	17.020; 19.080; 29.020	2021-03
IEC/TS 60034-31	Rotating electrical machines – Part 31: Selection of energy-efficient motors including variable speed applications – Application guidelines	29.160.01; 29.160.30	2021-03
IEC 60050-102 AMD 3	International Electrotechnical Vocabulary (IEV) – Part 102: Mathematics – General concepts and linear algebra; Amendment 3	01.040.07; 01.040.29; 07.020; 29.020	2021-03
IEC 60050-121 AMD 5	International Electrotechnical Vocabulary (IEV) – Part 121: Electromagnetism; Amendment 5	01.040.17; 01.040.29; 17.220.01; 29.020	2021-03
IEC 60050-131 AMD 4	International Electrotechnical Vocabulary (IEV) – Part 131: Circuit theory; Amendment 4	01.040.17; 01.040.29; 17.220.01; 29.020	2021-03
IEC 60050-151 AMD 5	International Electrotechnical Vocabulary (IEV) – Part 151: Electrical and magnetic devices; Amendment 5	01.040.29; 29.020; 29.100.01	2021-03
IEC 60050-161 AMD 10	International Electrotechnical Vocabulary (IEV) – Part 161: Electromagnetic compatibility; Amendment 10	01.040.29; 01.040.33; 29.020; 33.100.01	2021-03
IEC 60050-411 AMD 2	International Electrotechnical Vocabulary (IEV) – Part 411: Rotating machinery; Amendment 2	01.040.29; 29.160.01	2021-03
IEC 60050-466 AMD 2	International Electrotechnical Vocabulary (IEV) – Part 466: Overhead lines; Amendment 2	01.040.29; 29.020; 29.240.20	2021-03
IEC 60050-561 AMD 3	International Electrotechnical Vocabulary (IEV) – Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection; Amendment 3	01.040.29; 01.040.31; 29.020; 31.140	2021-03
IEC 60050-702 AMD 6	International Electrotechnical Vocabulary (IEV) – Part 702: Oscillations, signals and related devices; Amendment 6	01.040.33; 29.020; 33.020	2021-03
IEC 60050-705 AMD 6	International Electrotechnical Vocabulary (IEV) – Part 705: Radio wave propagation; Amendment 6	01.040.29; 01.040.33; 29.020; 33.060.01	2021-03
IEC 60050-713 AMD 5	International Electrotechnical Vocabulary (IEV) – Part 713: Radiocommunications: transmitters, receivers, networks and operation; Amendment 5	01.040.33; 33.060.01; 33.060.20	2021-03
IEC 60050-725 AMD 3	International Electrotechnical Vocabulary (IEV) – Part 725: Space radiocommunications; Amendment 3	01.040.29; 01.040.33; 29.020; 33.020; 33.060.30	2021-03
IEC 60068-2-11	Environmental testing – Part 2-11: Tests – Test Ka: Salt mist	19.040	2021-03
IEC 60068-2-13	Environmental testing – Part 2-13: Tests – Test M: Low air pressure	19.040	2021-03
IEC 60068-2-20	Environmental testing – Part 2-20: Tests – Tests Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads	19.040	2021-03
IEC 60068-2-38	Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test	19.040	2021-03
IEC 60079-10-1 Corrigendum 1	Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres; Corrigendum 1	29.260.20	2021-03
IEC 60216-3	Electrical insulating materials – Thermal endurance properties – Part 3: Instructions for calculating thermal endurance characteristics	17.220.99; 19.020; 29.035.01	2021-03
IEC 60335-2-4	Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors	13.120; 97.060	2021-03
IEC 60335-2-30 AMD 2	Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters; Amendment 2	13.120; 97.100.10	2021-03



Oznaka norme	Naslov norme	ICS	Datum objave
IEC 60335-2-30 Edition 5.2	Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters	13.120; 97.100.10	2021-03
IEC 60335-2-34	Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors	23.140; 97.040.30	2021-03
IEC 60335-2-53 AMD 2	Household and similar electrical appliances – Safety – Part 2-53: Particular requirements for sauna heating appliances and infrared cabins; Amendment 2	97.100.10	2021-03
IEC 60335-2-53 Edition 4.2	Household and similar electrical appliances – Safety – Part 2-53: Particular requirements for sauna heating appliances and infrared cabins	97.100.10	2021-03
IEC 60335-2-115	Household and similar electrical appliances – Safety – Part 2-115: Particular requirements for skin beauty care appliances	13.120; 97.170	2021-03
IEC 60350-1 Interpretation Sheet 1	Household electric cooking appliances – Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance; Interpretation Sheet 1	97.040.20	2021-03
IEC 60601-1 AMD 1 Interpretation Sheet 1	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance; Amendment 1; Interpretation Sheet 1	11.040.01	2021-03
IEC 60704-1	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements	13.120; 17.140.20; 97.030; 97.170	2021-03
IEC 60747-14-11	Semiconductor devices – Part 14-11: Semiconductor sensors – Test method of surface acoustic wave-based integrated sensors for measuring ultraviolet, illumination and temperature	31.080.01; 31.080.99	2021-03
IEC 60825-2	Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCSs)	13.280; 31.260; 33.180.01	2021-03
IEC 60947-6-1	Low-voltage switchgear and controlgear – Part 6-1: Multiple function equipment – Transfer switching equipment	29.120.40; 29.130.20	2021-03
IEC 61000-3-3 AMD 2	Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection; Amendment 2	33.100.10; 33.100.20	2021-03
IEC 61000-3-3 Edition 3.2	Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection	33.100.10; 33.100.20	2021-03
IEC 61000-4-30 AMD 1	Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods; Amendment 1	33.100.01; 33.100.99	2021-03
IEC 61000-4-30 Edition 3.1	Electromagnetic compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods	33.100.01; 33.100.99	2021-03
IEC 61010-2-130	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-130: Particular requirements for equipment intended to be used in educational establishments by children	03.180; 19.080; 71.040.20	2021-03
IEC 61169-60	Radio-frequency connectors – Part 60: Sectional specification for RF coaxial connectors with push on mating – Characteristic impedance 50 Ohm (type SMPM)	33.120.30	2021-03
IEC/PAS 61174-1	Maritime navigation and radiocommunication equipment and systems – Part 1: Route plan exchange format (RTZ) – General requirements, methods of testing and required test results	47.020.70; 47.060	2021-03

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IEC 61189-5-301	Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 5-301: General test methods for materials and assemblies – Soldering paste using fine solder particles	31.180	2021-03
IEC/TR 61191-8	Printed board assemblies – Part 8: Voiding in solder joints of printed board assemblies for use in automotive electronic control units – Best practices	31.180; 31.190	2021-03
IEC 61280-2-8	Fibre optic communication subsystem test procedures – Part 2-8: Digital systems – Determination of low BER using Q-factor measurements	33.180.01; 33.180.10	2021-03
IEC 61290-1-3	Optical amplifiers – Test methods – Part 1-3: Power and gain parameters – Optical power meter method	33.180.30	2021-03
IEC 61300-2-10	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-10: Tests – Crush and load resistance	33.180.20	2021-03
IEC 61472-2	Live working – Minimum approach distances – Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV	13.260; 29.240.99; 29.260.99	2021-03
IEC 61800-2	Adjustable speed electrical power drive systems – Part 2: General requirements – Rating specifications for adjustable speed AC power drive systems	29.160.30; 29.200	2021-03
IEC 61937-2	Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 2: Burst-info	33.160.30; 35.040.40	2021-03
IEC 61937-15	Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 15: Non-linear PCM bit streams according to Auro-Cx format	35.040.40	2021-03
IEC 61967-4	Integrated circuits – Measurement of electromagnetic emissions – Part 4: Measurement of conducted emissions – 1 ohm/150 ohm direct coupling method	31.200	2021-03
IEC 61968-13	Application integration at electric utilities – System interfaces for distribution management – Part 13: Common distribution power system model profiles	33.200; 35.240.99	2021-03
IEC 61970-457	Energy management system application program interface (EMS-API) – Part 457: Dynamics profile	33.200; 35.240.50	2021-03
IEC 62061	Safety of machinery – Functional safety of safety-related control systems	13.110; 25.040.40; 25.040.99; 29.020	2021-03
IEC 62148-15	Fibre optic active components and devices – Package and interface standards – Part 15: Discrete vertical cavity surface emitting laser packages	33.180.20; 33.180.30	2021-03
IEC 62325-451-7	Framework for energy market communications – Part 451-7: Balancing processes, contextual and assembly models for European style market	27.010; 33.200; 35.240.50	2021-03
IEC/TR 62351-90-3	Power systems management and associated information exchange – Data and communications security – Part 90-3: Guidelines for network and system management	33.200; 35.030	2021-03
IEC 62591 Corrigendum 1	Industrial networks – Wireless communication network and communication profiles – WirelessHARTTM; Corrigendum 1	35.160; 35.240.50	2021-03
IEC 62601 Corrigendum 1	Industrial networks – Wireless communication network and communication profiles – WIA-PA; Corrigendum 1	35.110; 35.240.50	2021-03
IEC 62680-1-2	Universal serial bus interfaces for data and power Part 1-2: Common components – USB Power Delivery specification	29.220.01; 33.120.01; 35.200	2021-03

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IEC 62830-7	Semiconductor devices – Semiconductor devices for energy harvesting and generation – Part 7: Linear sliding mode triboelectric energy harvesting	31.080.99	2021-03
IEC 62841-3-1 AMD 1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws; Amendment 1	25.140.20	2021-03
IEC 62841-3-1 Edition 1.1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 3-1: Particular requirements for transportable table saws	25.140.20	2021-03
IEC 62899-202-7	Printed electronics – Part 202-7: Materials – Printed film – Measurement of peel strength for printed layer on flexible substrate by the 90° peel method	29.035.01; 31.180	2021-03
IEC 62948 Corrigendum 1	Industrial networks – Wireless communication network and communication profiles – WIA-FA; Corrigendum 1	25.040.40; 35.110	2021-03
IEC/TR 62977-5-2	Electronic displays – Part 5-2: Visual assessment – Colour discrimination according to viewing direction	31.120	2021-03
IEC 63136 Corrigendum 1	Electric dishwasher for commercial use – Test methods for measuring the performance; Corrigendum 1	97.040.40	2021-03
IEC 63154	Maritime navigation and radiocommunication equipment and systems – Cybersecurity – General requirements, methods of testing and required test results	33.060.01; 35.030; 47.020.70	2021-03
IEC 63171	Connectors for electrical and electronic equipment – Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current-carrying capacity – General requirements and tests	31.220.10	2021-03
IEC 63210	Shunt power capacitors of the self-healing type for AC systems having a rated voltage above 1000 V	29.120.99; 31.060.70	2021-03
IEC SRD 63235	Smart city system – Methodology for concepts building	01.040.01; 13.020.20; 35.240.99; 91.140.50	2021-03
IEC 63245-1	Spatial wireless power transfer based on multiple magnetic resonances – Part 1: Requirements	29.240.99; 33.160.01; 35.200	2021-03
IEC/TR 63274	Power consumption of high dynamic range television sets	33.160.25; 33.160.40	2021-03
IEC/TS 63297	Sensing devices for non-intrusive load monitoring (NILM) systems	17.220.20	2021-03
ISO/IEC 5055	Information technology – Software measurement – Software quality measurement – Automated source code quality measures	35.080	2021-03
ISO/IEC 10118-1 AMD 1	Information technology – Security techniques – Hash-functions – Part 1: General – Amendment 1: Padding methods for sponge functions	35.030	2021-03
ISO/IEC TS 11801-9903	Information technology – Generic cabling systems for customer premises – Part 9903: Matrix modelling of channels and links	35.200	2021-03
ISO/IEC 14763-4	Information technology – Implementation and operation of customer premises cabling – Part 4: Measurement of end-to-end (E2E)-Links	35.200	2021-03
ISO/IEC 18598 AMD 1	Information technology – Automated infrastructure management (AIM) systems – Requirements, data exchange and applications; Amendment 1	35.200	2021-03
ISO/IEC 20924	Information technology – Internet of Things (IoT) – Vocabulary	01.040.35; 35.020	2021-03

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ISO/IEC TS 23078-3	Information technology – Specification of DRM technology for digital publications – Part 3: Device key-based protection	35.240.30	2021-03
ISO/IEC 23264-1	Information security – Redaction of authentic data – Part 1: General	35.030	2021-03
ISO/IEC TR 24029-1	Artificial Intelligence (AI) – Assessment of the robustness of neural networks – Part 1: Overview	35.020	2021-03
ISO/IEC 24824-4	Information technology – Generic applications of ASN.1 – Part 4: Cryptographic message syntax	35.100.60	2021-03
ISO/IEC TS 25025	Information technology – Systems and software Quality Requirements and Evaluation (SQuaRE) – Measurement of IT service quality	35.080	2021-03
ISO/IEC TS 27022	Information technology – Guidance on information security management system processes	03.100.70; 35.030	2021-03
ISO/IEC 29110-4-2	Systems and software engineering – Lifecycle profiles for Very Small Entities (VSEs) – Part 4-2: Software engineering: Profile specifications: Organizational management profile group	35.080	2021-03
ISO/IEC 30163	Internet of Things (IoT) – System requirements of IoT/SN technology-based integrated platform for chattel asset monitoring supporting financial services	35.020; 35.240.40	2021-03
ISO/IEC 39794-6	Information technology – Extensible biometric data interchange formats – Part 6: Iris image data	35.240.15	2021-03
IEC/TR 63258	Nanotechnologies – A guideline for ellipsometry application to evaluate the thickness of nanoscale films	07.120	2021-03
ISO 80601-2-85	Medical electrical equipment – Part 2-85: Particular requirements for the basic safety and essential performance of cerebral tissue oximeter equipment	11.040.10	2021-03