

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

1/2020

31. siječnja 2020.

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

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 1 Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

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

Hrvatske norme mogu nastati na ova četiri načina:

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

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

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

- HRN EN 15655-1:2020 en pr  
Duktilne željezne cijevi, spojni dijelovi i pribor – Zahtjevi i metode ispitivanja za organske obloge za duktilne cijevi i spojne dijelove – 1. dio: Poliuretanska obloga cijevi i spojnih dijelova (EN 15655-1:2018)  
Ductile iron pipes, fittings and accessories – Requirements and test methods for organic linings of ductile iron pipes and fittings – Part 1: Polyurethane lining of pipes and fittings (EN 15655-1:2018)

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

- HRN EN 54-3:2020 en pr  
Sustavi za otkrivanje i dojavu požara – 3. dio: Uređaji za uzbuđivanje – Sirene (EN 54-3:2014+A1:2019)  
Fire detection and fire alarm systems – Part 3: Fire alarm devices – Sounders (EN 54-3:2014+A1:2019)
- HRN EN 54-13:2020 en pr  
Sustavi za otkrivanje i dojavu požara – 13. dio: Ocjenjivanje kompatibilnosti i spojivosti dijelova sustava (EN 54-13:2017+A1:2019)  
Fire detection and fire alarm systems – Part 13: Compatibility and connectability assessment of system components (EN 54-13:2017+A1:2019)
- HRN EN 12845:2020 en pr  
Stabilni protupožarni sustavi – Automatski sprinklerski sustavi – Projektiranje, ugradnja i održavanje (EN 12845:2015+A1:2019)  
Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance (EN 12845:2015+A1:2019)

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

- HRN ISO 2575:2012/A6:2020 en pr  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 6:2017)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 6:2017)
- HRN ISO 2575:2012/A7:2020 en pr  
Cestovna vozila – Simboli za upravljačke naprave, indikatore i pokazne svjetiljke (ISO 2575:2010/Amd 7:2017)  
Road vehicles – Symbols for controls, indicators and tell-tales (ISO 2575:2010/Amd 7:2017)
- HRN ISO 2698:2020 en pr  
Dizelski motori – Ubrizgači goriva pričvršćeni stezaljkom, tipovi 7 i 28 (ISO 2698:2016)  
Diesel engines – Clamp-mounted fuel injectors, types 7 and 28 (ISO 2698:2016)
- HRN ISO 3888-1:2020 en pr  
Osobni automobili – Ispitna staza za manevar nagle promjene pravca gibanja – 1. dio: Dvostruka promjena pravca gibanja (ISO 3888-1:2018)  
Passenger cars – Test track for a severe lane-change manoeuvre – Part 1: Double lane-change (ISO 3888-1:2018)

- HRN ISO 4141-1:2020 en pr  
Cestovna vozila – Višežilni spojni kabeli – 1. dio: Metode ispitivanja i zahtjevi za obložene kabele s osnovnim radnim značajkama (ISO 4141-1:2019)  
Road vehicles – Multi-core connecting cables – Part 1: Test methods and requirements for basic performance sheathed cables (ISO 4141-1:2019)

- HRN ISO 4141-2:2020 en pr  
Cestovna vozila – Višežilni spojni kabeli – 2. dio: Metode ispitivanja i zahtjevi za obložene kabele s visokozahvatnim radnim značajkama (ISO 4141-2:2019)  
Road vehicles – Multi-core connecting cables – Part 2: Test methods and requirements for high performance sheathed cables (ISO 4141-2:2019)

- HRN ISO 4141-3:2020 en pr  
Cestovna vozila – Višežilni spojni kabeli – 3. dio: Izrada, mjere i označavanje neoklopljenih obloženih niskonaponskih kabela (ISO 4141-3:2019)  
Road vehicles – Multi-core connecting cables – Part 3: Construction, dimensions and marking of unscreened sheathed low-voltage cables (ISO 4141-3:2019)

- HRN ISO 4223-1:2020 en pr  
Definicije nekih naziva koji se upotrebljavaju u proizvodnji guma – 1. dio: Pneumatske gume (ISO 4223-1:2017)  
Definitions of some terms used in the tyre industry – Part 1: Pneumatic tyres (ISO 4223-1:2017)

- HRN ISO 4250-1:2020 en pr  
Gume i naplatci za strojeve za zemljane radove – 1. dio: Oznaka i dimenzije guma (ISO 4250-1:2017)  
Earth-mover tyres and rims – Part 1: Tyre designation and dimensions (ISO 4250-1:2017)

- HRN ISO 4251-2:2020 en pr  
Dijagonalne gume označene kodnom oznakom (nizovi s oznakom broja slojeva) za poljoprivredne traktore, prikolice i strojeve – 2. dio: Nazivne nosivosti guma (ISO 4251-2:2019)  
Code designated diagonal tyres (ply rating marked series) for agricultural tractors, trailers and machines – Part 2: Tyre load ratings (ISO 4251-2:2019)

- HRN ISO 5011:2015/A1:2020 en pr  
Oprema za pročišćivanje ulaznog zraka za motore s unutarnjim izgaranjem i kompresore – Ispitivanje značajka (ISO 5011:2014/Amd 1:2018)  
Inlet air cleaning equipment for internal combustion engines and compressors – Performance testing (ISO 5011:2014/Amd 1:2018)

- HRN ISO 6469-1:2020 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 1. dio: Sustav ponovljivog pohranjivanja energije u vozilu (RESS) (ISO 6469-1:2019)  
Electrically propelled road vehicles – Safety specifications – Part 1: Rechargeable energy storage system (RESS) (ISO 6469-1:2019)

- HRN ISO 6469-2:2020 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 2. dio: Sigurnost rada vozila (ISO 6469-2:2018)  
Electrically propelled road vehicles – Safety specifications – Part 2: Vehicle operational safety (ISO 6469-2:2018)

- HRN ISO 6469-3:2020 en pr  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 3. dio: Električna sigurnost (ISO 6469-3:2018)  
Electrically propelled road vehicles – Safety specifications – Part 3: Electrical safety (ISO 6469-3:2018)

- HRN ISO 6546:2020 en pr  
Cestovna vozila – Prikupljanje podataka o nezgodi za vrednovanje značajka sustava sigurnosti putnika u vozilu (ISO 6546:2018)  
Road vehicles – Collection of accident data for evaluation of occupant restraint performance (ISO 6546:2018)

- HRN ISO 6621-1:2020 en pr  
Motori s unutarnjim izgaranjem – Klipni prstenovi – 1. dio: Terminološki rječnik (ISO 6621-1:2018)  
Internal combustion engines – Piston rings – Part 1: Vocabulary (ISO 6621-1:2018)

- HRN ISO 7612:2020 en pr  
Dizelski motori – Redne pumpe za ubrizgavanje goriva ugrađene na ravnu podlogu i visokotlačne dobavne pumpe za sustave ubrizgavanja goriva sa zajedničkim spremnikom (common rail) – Ugrađbene dimenzije (ISO 7612:2018)  
Diesel engines – Base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems – Mounting dimensions (ISO 7612:2018)
- HRN ISO 7638-1:2020 en pr  
Cestovna vozila – Spojnici za električno spajanje vučnih i vučenih vozila – 1. dio: Spojnici za kočne sustave i podvozja vozila s nazivnim naponom napajanja od 24 V (ISO 7638-1:2018)  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 1: Connectors for braking systems and running gear of vehicles with 24 V nominal supply voltage (ISO 7638-1:2018)
- HRN ISO 7638-2:2020 en pr  
Cestovna vozila – Spojnici za električno spajanje vučnih i vučenih vozila – 2. dio: Spojnici za kočne sustave i podvozja vozila s nazivnim naponom napajanja od 12 V (ISO 7638-2:2018)  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 2: Connectors for braking systems and running gear of vehicles with 12 V nominal supply voltage (ISO 7638-2:2018)
- HRN ISO 7867-1:2020 en pr  
Metrički nizovi za gume poljoprivrednih, šumarskih i građevinskih strojeva – 1. dio: Oznaka, dimenzije, označavanje guma i usklađivanje guma/naplatka (ISO 7867-1:2018)  
Metric series for agricultural, forestry machines and construction tyres – Part 1: Tyre designation, dimensions and marking, and tyre/rim coordination (ISO 7867-1:2018)
- HRN ISO 7867-2:2020 en pr  
Metrički nizovi za gume poljoprivrednih, šumarskih i građevinskih strojeva – 2. dio: Nazivne nosivosti guma za poljoprivredne strojeve (ISO 7867-2:2018)  
Metric series for agricultural, forestry machines and construction tyres – Part 2: Load ratings for agricultural tyres (ISO 7867-2:2018)
- HRN ISO 8664:2020 en pr  
Gume za poljoprivredne traktore i strojeve – Radijalne gume za pogonske kotače označene kodnom oznakom i uporabnim značajkama (ISO 8664:2018)  
Tyres for agricultural tractors and machines – Code-designated and service-description marked radial drive-wheel tyres (ISO 8664:2018)
- HRI ISO/TR 8713:2020 en pr  
Cestovna vozila na električni pogon – Terminološki rječnik (ISO/TR 8713:2019)  
Electrically propelled road vehicles – Vocabulary (ISO/TR 8713:2019)
- HRN ISO 9816:2020 en pr  
Osobni automobili – Reakcija vozila u zaokretanju pri naglom otpuštanju papučice snage – Metoda ispitivanja otvorenom petljom (ISO 9816:2018)  
Passenger cars – Power-off reaction of a vehicle in a turn – Open-loop test method (ISO 9816:2018)
- HRN ISO 10499-1:2020 en pr  
Gume i naplatci za industrijska vozila – Gumene pune gume (metrički nizovi) za naplatke pneumatskih guma – 1. dio: Oznaka, dimenzije i označavanje (ISO 10499-1:2019)  
Industrial tyres and rims – Rubber solid tyres (metric series) for pneumatic tyre rims – Part 1: Designation, dimensions and marking (ISO 10499-1:2019)
- HRN ISO 11452-2:2020 en pr  
Cestovna vozila – Metode ispitivanja sastavnica na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 2. dio: Kavez s apsorberima (ISO 11452-2:2019)  
Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure (ISO 11452-2:2019)
- HRN ISO 11795:2020 en pr  
Gume za pogonske kotače poljoprivrednih traktora – Objašnjenje indeksa opsega kotrljanja (RCI) i indeksa radijusa brzine i metoda mjerenja opsega kotrljanja gume (ISO 11795:2018)  
Agricultural tractor drive wheel tyres – Explanation of rolling circumference index (RCI) and speed radius index (SRI) and method of measuring tyre rolling circumference (ISO 11795:2018)
- HRN ISO 11992-1:2020 en pr  
Cestovna vozila – Razmjena digitalnih podataka na električnim spojevima između vučnih i vučenih vozila – 1. dio: Fizički sloj i sloj veze između podataka (ISO 11992-1:2019)  
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 1: Physical and data-link layers (ISO 11992-1:2019)
- HRN ISO 12214:2020 en pr  
Cestovna vozila – Stereotipni pravci gibanja za ručne upravljačke naprave u automobilu (ISO 12214:2018)  
Road vehicles – Direction-of-motion stereotypes for automotive hand controls (ISO 12214:2018)
- HRN ISO 13325:2020 en pr  
Gume – Metode mjerenja emisije buke kotrljanja gume po cesti s isključenim motorom vozila (ISO 13325:2019)  
Tyres – Coast-by methods for measurement of tyre-to-road sound emission (ISO 13325:2019)
- HRS ISO/TS 13499:2020 en pr  
Cestovna vozila – Oblik razmjene multimedijskih podataka za ispitivanja sudarom (ISO/TS 13499:2019)  
Road vehicles – Multimedia data exchange format for impact tests (ISO/TS 13499:2019)
- HRN ISO 15037-1:2020 en pr  
Cestovna vozila – Metode ispitivanja dinamike vozila – 1. dio: Opći uvjeti za osobne automobile (ISO 15037-1:2019)  
Road vehicles – Vehicle dynamics test methods – Part 1: General conditions for passenger cars (ISO 15037-1:2019)
- HRN ISO 16845-2:2020 en pr  
Cestovna vozila – Plan ispitivanja sukladnosti regulatora mrežnog područja (CAN) – 2. dio: Jedinica za pristup mediju velike brzine – Plan ispitivanja sukladnosti (ISO 16845-2:2018)  
Road vehicles – Controller area network (CAN) conformance test plan – Part 2: High-speed medium access unit – Conformance test plan (ISO 16845-2:2018)
- HRN ISO 18807:2020 en pr  
Gume i naplatci za vozila za šumarske radove (ISO 18807:2019)  
Tyres and rims for logging and forestry service (ISO 18807:2019)

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

- HRN EN 707:2020 en pr  
Poljoprivredna mehanizacija – Spremnici za gnojnicu – Sigurnost (EN 707:2018)  
Agricultural machinery – Slurry tankers – Safety (EN 707:2018)
- HRN EN ISO 4254-9:2020 en pr  
Poljoprivredna mehanizacija – Sigurnost – 9. dio: Sijačice (ISO 4254-9:2018; EN ISO 4254-9:2018)  
Agricultural machinery – Safety – Part 9: Seed drills (ISO 4254-9:2018; EN ISO 4254-9:2018)
- HRN EN 12733:2020 en pr  
Poljoprivredna i šumarska mehanizacija – Ručno upravljane motorne kosilice – Sigurnost (EN 12733:2018)  
Agricultural and forestry machinery – Pedestrian controlled motor mowers – Safety (EN 12733:2018)
- HRN EN 13684:2020 en pr  
Oprema za vrtove i parkove – Ručno upravljani prozračivači i grebalice za travnjake – Sigurnost (EN 13684:2018)  
Garden equipment – Pedestrian controlled lawn aerators and scarifiers – Safety (EN 13684:2018)
- HRN EN 17067:2020 en pr  
Šumarska mehanizacija – Sigurnosni zahtjevi za radio upravljanje (EN 17067:2018)  
Forestry machinery – Safety requirements on radio remote controls (EN 17067:2018)

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

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

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

### HZN/TO 37, Terminologija

HRN ISO 20228:2020 en pr  
Usluge usmenog prevođenja – Usmeno prevođenje u pravnim postupcima – Zahtjevi (ISO 20228:2019)  
Interpreting services – Legal interpreting – Requirements (ISO 20228:2019)

HRN ISO 22259:2020 en pr  
Konferencijski sustavi – Oprema – Zahtjevi (ISO 22259:2019)  
Conference systems – Equipment – Requirements (ISO 22259:2019)

HRN ISO 24613-1:2020 en pr  
Upravljanje jezičnim resursima – Okvir leksičkog obilježavanja (LMF) – 1. dio: Osnovni model (ISO 24613-1:2019)  
Language resource management – Lexical markup framework (LMF) – Part 1: Core model (ISO 24613-1:2019)

HRN ISO 24622-2:2020 en pr  
Upravljanje jezičnim resursima – Infrastruktura komponentijalnih metapodataka (CMDI) – 2. dio: Poseban jezik komponentijalnih metapodataka (ISO 24622-2:2019)  
Language resource management – Component metadata infrastructure (CMDI) – Part 2: Component metadata specification language (ISO 24622-2:2019)

### HZN/TO 82, Rudarstvo

HRN EN ISO 19296:2020 en pr  
Rudarstvo – Pokretni strojevi u podzemnim rudnicima – Sigurnost strojeva (ISO 19296:2018; EN ISO 19296:2018)  
Mining – Mobile machines working underground – Machine safety (ISO 19296:2018; EN ISO 19296:2018)

### HZN/TO 108, Mehaničke vibracije i udari

HRN EN ISO 28927-1:2020 en pr  
Ručni prijenosni strojni alati – Metode ispitivanja za procjenu emisije vibracija – 1. dio: Kutne i vertikalne brusilice (ISO 28927-1:2019; EN ISO 28927-1:2019)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders (ISO 28927-1:2019; EN ISO 28927-1:2019)

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

HRN EN ISO 13666:2020 en pr  
Oftalmološka optika – Leće za naočale – Terminološki rječnik (ISO 13666:2019; EN ISO 13666:2019)  
Ophthalmic optics – Spectacle lenses – Vocabulary (ISO 13666:2019; EN ISO 13666:2019)

HRN EN ISO 15902:2020 en pr  
Optika i optički instrumenti – Difraktivna optika – Terminološki rječnik (ISO 15902:2019; EN ISO 15902:2020)  
Optics and photonics – Diffractive optics – Vocabulary (ISO 15902:2019; EN ISO 15902:2020)

### HZN/TO 196, Prirodni kamen

HRN EN 13373:2020 en pr  
Metode ispitivanja prirodnog kamena – Određivanje geometrijskih značajki kamenih elemenata (EN 13373:2020)  
Natural stone test methods – Determination of geometric characteristics on units (EN 13373:2020)

### HZN/TO 211, Geoinformacije/Geomatika

HRN EN ISO 19107:2020 en pr  
Geoinformacije – Prostorna shema (ISO 19107:2019; EN ISO 19107:2019)  
Geographic information – Spatial schema (ISO 19107:2019; EN ISO 19107:2019)

HRN EN ISO 19116:2020 en pr  
Geoinformacije – Usluge pozicioniranja (ISO 19116:2019; EN ISO 19116:2019)  
Geographic information – Positioning services (ISO 19116:2019; EN ISO 19116:2019)

### HZN/TO 218, Drvo

HRN EN 1534:2020 en pr  
Drveni podovi i parketi – Određivanje otpornosti na zasijecanje – Metoda ispitivanja (EN 1534:2020)  
Wood flooring and parquet – Determination of resistance to indentation – Test method (EN 1534:2020)

### HZN/TO 221, Geosintetici

HRN EN ISO 9863-1:2016/A1:2020 en pr  
Geosintetici – Određivanje debljine pri određenim tlakovima – 1. dio: Jednoslojni (ISO 9863-1:2016/Amd 1:2019; EN ISO 9863-1:2016/A1:2019)  
Geosynthetics – Determination of thickness at specified pressures – Part 1: Single layers (ISO 9863-1:2016/Amd 1:2019; EN ISO 9863-1:2016/A1:2019)

### HZN/TO 502, Plinski uređaji

HRN EN 13203-6:2020 en pr  
Plinski uređaji za pripremu potrošne tople vode za kućanstva – 6. dio: Ocjenjivanje potrošnje energije adsorpcijskih i apsorpcijskih dizalica topline (EN 13203-6:2018)  
Gas-fired domestic appliance producing hot water – Part 6: Assessment of energy consumption of ad-sorption and ab-sorption heat pumps (EN 13203-6:2018)

### HZN/TO 503, Metalni materijali

HRN EN 10216-2:2020 en pr  
Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 2. dio: Cijevi od nelegiranih i legiranih čelika s utvrđenim svojstvima pri povišenim temperaturama (EN 10216-2:2013+A1:2019)  
Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties (EN 10216-2:2013+A1:2019)

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

HRN EN 1749:2020 en pr  
Europska norma za klasifikaciju plinskih uređaja prema metodi dovoda zraka za izgaranje i odvođenja produkata izgaranja (vrste) (EN 1749:2020)  
European standard for the classification of gas appliances according to the method of supplying combustion air and of evacuation of the combustion products (types) (EN 1749:2020)

HRN EN ISO 6974-3:2020 en pr  
Prirodni plin – Određivanje sastava i pridružene nesigurnosti plinskom kromatografijom – 3. dio: Preciznost i odstupanje (ISO 6974-3:2018; EN ISO 6974-3:2018)  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 3: Precision and bias (ISO 6974-3:2018; EN ISO 6974-3:2018)

HRN EN ISO 15138:2020 en pr  
Industrija nafte i prirodnog plina – Odobalna proizvodna postrojenja – Grijanje, ventilacija i klimatizacija (ISO 15138:2018; EN ISO 15138:2018)  
Petroleum and natural gas industries – Offshore production installations – Heating, ventilation and air-conditioning (ISO 15138:2018; EN ISO 15138:2018)

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

HRN EN 1434-5:2020 en pr  
Mjerila toplinske energije – 5. dio: Ispitivanja prilikom prvog ovjeravanja (EN 1434-5:2015+A1:2019)  
Thermal energy meters – Part 5: Initial verification tests (EN 1434-5:2015+A1:2019)

HRN EN 1434-6:2020 en pr  
Mjerila toplinske energije – 6. dio: Ugradnja, preuzimanje, nadzor u radu i održavanje (EN 1434-6:2015+A1:2019)  
Thermal energy meters – Part 6: Installation, commissioning, operational monitoring and maintenance (EN 1434-6:2015+A1:2019)

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

HRN EN 234:2020 en pr  
Zidni pokrovi u rolama – Specifikacije za zidne pokrove za naknadnu dekoraciju (EN 234:2019)  
Wallcoverings in roll form – Specification for wallcoverings for subsequent decoration (EN 234:2019)

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

HRN EN ISO 12813:2020 en pr  
Elektronička naplata – Komunikacija provjere sukladnosti za autonomne sustave (ISO 12813:2019; EN ISO 12813:2019)  
Electronic fee collection – Compliance check communication for autonomous systems (ISO 12813:2019; EN ISO 12813:2019)

HRS CEN/TS 16794-1:2020 en pr  
Javni prijevoz – Komunikacija između beskontaktnih čitača i medija za plaćanje vozničkih karata – 1. dio: Zahtjevi s obzirom na provedbu norme ISO/IEC 14443 (CEN/TS 16794-1:2019)  
Public transport – Communication between contactless readers and fare media – Part 1: Implementation requirements for ISO/IEC 14443 (CEN/TS 16794-1:2019)

HRS CEN/TS 16794-2:2020 en pr  
Javni prijevoz – Komunikacija između beskontaktnih čitača i medija za plaćanje vozničkih karata – 2. dio: Plan ispitivanja za normu ISO/IEC 14443 (CEN/TS 16794-2:2019)  
Public transport – Communication between contactless readers and fare media – Part 2: Test plan for ISO/IEC 14443 (CEN/TS 16794-2:2019)

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

HRN EN 16452:2020 en pr  
Željeznički sustav – Kočenje – Kočni umeci (EN 16452:2015+A1:2019)  
Railway applications – Braking – Brake blocks (EN 16452:2015+A1:2019)

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

HRN EN ISO 180:2020 en pr  
Plastika – Određivanje savojne žilavosti prema Izodu (ISO 180:2019; EN ISO 180:2019)  
Plastics – Determination of Izod impact strength (ISO 180:2019; EN ISO 180:2019)

HRN EN ISO 29988-1:2020 en pr  
Plastika – Poli(oksimetilenski) (POM) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 29988-1:2019; EN ISO 29988-1:2019)  
Plastics – Polyoxymethylene (POM) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 29988-1:2019; EN ISO 29988-1:2019)

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

HRN ISO 830:2002/Ispr.1:2020 en,fr pr  
Kontejneri za teret – Terminološki rječnik – Tehnički ispravak 1 (ISO 830:1999/Cor 1:2001)  
Freight containers – Vocabulary – Technical Corrigendum 1 (ISO 830:1999/Cor 1:2001)

HRN EN 12640:2020 en pr  
Intermodalne teretne jedinice i gospodarska vozila – Točke za pričvršćivanje tereta – Minimalni zahtjevi i ispitivanje (EN 12640:2019)  
Intermodal loading units and commercial vehicles – Lashing points for cargo securing – Minimum requirements and testing (EN 12640:2019)

HRN EN 12641-1:2020 en pr  
Intermodalne teretne jedinice i gospodarska vozila – Cerade – 1. dio: Minimalni zahtjevi (EN 12641-1:2019)  
Intermodal loading units and commercial vehicles – Tarpaulins – Part 1: Minimum requirements (EN 12641-1:2019)

HRN EN 12641-2:2020 en pr  
Intermodalne teretne jedinice i gospodarska vozila – Cerade – 2. dio: Minimalni zahtjevi za bočne klizne cerade (EN 12641-2:2019)  
Intermodal loading units and commercial vehicles – Tarpaulins – Part 2: Minimum requirements for curtainsiders (EN 12641-2:2019)

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

HRN EN ISO 14978:2020 en pr  
Geometrijske specifikacije proizvoda (GSP) – Opći pojmovi i zahtjevi za GSP mjernu opremu (ISO 14978:2018; EN ISO 14978:2018)  
Geometrical product specifications (GPS) – General concepts and requirements for GPS measuring equipment (ISO 14978:2018; EN ISO 14978:2018)

HRN EN ISO 25178-600:2020 en pr  
Geometrijske specifikacije proizvoda (GSP) – Tekstura površine: Ploštinska – 600. dio: Mjeriteljske karakteristike za ploštinsko-topografske mjerne metode (ISO 25178-600:2019; EN ISO 25178-600:2019)  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 600: Metrological characteristics for areal-topography measuring methods (ISO 25178-600:2019; EN ISO 25178-600:2019)

HRN EN ISO 25178-607:2020 en pr  
Geometrijske specifikacije proizvoda (GSP) – Tekstura površine: Ploštinska – 607. dio: Nazivne karakteristike nekontaktnih instrumenata (konfokalna mikroskopija) (ISO 25178-607:2019; EN ISO 25178-607:2019)  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 607: Nominal characteristics of non-contact (confocal microscopy) instruments (ISO 25178-607:2019; EN ISO 25178-607:2019)

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

HRN EN 13053:2020 en pr  
Ventilacija u zgradama – Centralne jedinice za pripremu zraka – Podjela i značajke jedinica, dijelova i dionica (EN 13053:2019)  
Ventilation for buildings – Air handling units – Rating and performance for units, components and sections (EN 13053:2019)

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

HRN EN ISO 14971:2020 en pr  
Medicinski proizvodi – Primjena upravljanja rizikom za medicinske proizvode (ISO 14971:2019; EN ISO 14971:2019)  
Medical devices – Application of risk management to medical devices (ISO 14971:2019; EN ISO 14971:2019)

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

HRN EN ISO 13938-2:2020 en pr  
Tekstil – Otpornost na probijanje – 2. dio: Pneumatska metoda određivanja čvrstoće kod probijanja i visine ispupčenja (ISO 13938-2:2019; EN ISO 13938-2:2019)  
Textiles – Bursting properties of fabrics – Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:2019; EN ISO 13938-2:2019)

HRN EN ISO 20706-1:2020 en pr  
Tekstil – Kvalitativna i kvantitativna analiza nekih stabljičnih vlakana (lan, konoplja, ramija) i njihove mješavine – 1. dio: Identifikacija vlakana mikroskopskom metodom (ISO 20706-1:2019; EN ISO 20706-1:2019)  
Textiles – Qualitative and quantitative analysis of some bast fibres (flax, hemp, ramie) and their blends – Part 1: Fibre identification using microscopy methods (ISO 20706-1:2019; EN ISO 20706-1:2019)

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

- HRN EN 13480-1:2017/Izd.2:2020 en pr  
Metalni industrijski cjevovodi – 1. dio: Općenito (EN 13480-1:2017, 2. izdanje 2019-06)  
Metallic industrial piping – Part 1: General (EN 13480-1:2017, Issue 2 2019-06)
- HRN EN 13480-2:2017/Izd.2:2020 en pr  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2017, 2. izdanje 2019-06)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2017, Issue 2 2019-06)
- HRN EN 13480-5:2017/Izd.2:2020 en pr  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2017, 2. izdanje 2019-06)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2017, Issue 2 2019-06)
- HRN EN 13480-6:2017/Izd.2:2020 en pr  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode (EN 13480-6:2017, 2. izdanje 2019-06)  
Metallic industrial piping – Part 6: Additional requirements for buried piping (EN 13480-6:2017, Issue 2 2019-06)
- HRN EN 13480-8:2017/Izd.2:2020 en pr  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura (EN 13480-8:2017, 2. izdanje 2019-06)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2017, Issue 2 2019-06)
- HRN EN 15202:2020 en pr  
Oprema i pribor za UNP – Osnovne dimenzije priključaka za ventile na bocama za UNP i pripadajućih priključaka za opremu (EN 15202:2019)  
LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections (EN 15202:2019)

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

- HRN EN ISO 11148-13:2020 en pr  
Ručni neelektrični alati – Sigurnosni zahtjevi – 13. dio: Alati za pričvršćivanje (ISO 11148-13:2017; EN ISO 11148-13:2018)  
Hand-held non-electric power tools – Safety requirements – Part 13: Fastener driving tools (ISO 11148-13:2017; EN ISO 11148-13:2018)
- HRN EN 12012-1:2020 en pr  
Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 1. dio: Sigurnosni zahtjevi za granulatore s noževima (EN 12012-1:2018)  
Plastics and rubber machines – Size reduction machines – Part 1: Safety requirements for blade granulators and shredders (EN 12012-1:2018)
- HRN EN 12012-4:2020 en pr  
Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 4. dio: Sigurnosni zahtjevi za drobilice (EN 12012-4:2019)  
Plastics and rubber machines – Size reduction machines – Part 4: Safety requirements for agglomerators (EN 12012-4:2019)
- HRN EN 13236:2020 en pr  
Sigurnosni zahtjevi za superabrazive (EN 13236:2019)  
Safety requirements for superabrasive products (EN 13236:2019)
- HRN EN 16770:2020 en pr  
Sigurnost strojeva za obradu drva – Sustavi za izvlačenje strugotina i prašine za upotrebu u zatvorenom prostoru – Sigurnosni zahtjevi (EN 16770:2018)  
Safety of woodworking machines – Chip and dust extraction systems for indoor installation – Safety requirements (EN 16770:2018)
- HRN EN ISO 19085-10:2020 en pr  
Strojevi za obradu drveta – Sigurnost – 10. dio: Građevinske pile (ISO 19085-10:2018, ispravljena verzija 2019-12; EN ISO 19085-10:2019)  
Woodworking machines – Safety – Part 10: Building site saws (contractor saws) (ISO 19085-10:2018, Corrected version 2019-12; EN ISO 19085-10:2019)

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

- HRN EN 17059:2020 en pr  
Postrojenja za galvanizaciju i anodizaciju – Sigurnosni zahtjevi (EN 17059:2018)  
Plating and anodizing lines – Safety requirements (EN 17059:2018)
- HRN EN 17116-2:2020 en pr  
Specifikacije za industrijske perlice rublja – Definicije i ispitivanje kapaciteta i potrošnih značajka – 2. dio: Bubljanje sušilice (EN 17116-2:2018)  
Specifications for industrial laundry machines – Definitions and testing of capacity and consumption characteristics – Part 2: Batch drying tumblers (EN 17116-2:2018)
- HRN EN ISO 19353:2020 en pr  
Sigurnost strojeva – Prevencija požara i zaštita od požara (ISO 19353:2019; EN ISO 19353:2019)  
Safety of machinery – Fire prevention and fire protection (ISO 19353:2019; EN ISO 19353:2019)

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

- HRN EN ISO 16140-6:2020 en pr  
Mikrobiologija u lancu hrane – Validacija metode – 6. dio: Protokol za validaciju alternativnih (zaštićenih) metoda za postupke mikrobiološke potvrde i tipizacije (ISO 16140-6:2019; EN ISO 16140-6:2019)  
Microbiology of the food chain – Method validation – Part 6: Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures (ISO 16140-6:2019; EN ISO 16140-6:2019)
- HRN EN 17252:2020 en pr  
Namirnice – Određivanje fopomopsina A u sjemenkama vučike i proizvodima od vučike metodom LC-MS/MS (EN 17252:2020)  
Foodstuffs – Determination of fopomopsin A in lupin seeds and lupin derived products by LC-MS/MS (EN 17252:2020)
- HRN EN 17264:2020 en pr  
Hrana – Određivanje elemenata i elementnih specija – Određivanje aluminija spektrometrijom masa induktivno spregnutom plazmom (ICP-MS) (EN 17264:2019)  
Foodstuffs – Determination of elements and their chemical species – Determination of aluminium by inductively coupled plasma mass spectrometry (ICP-MS) (EN 17264:2019)
- HRN EN 17265:2020 en pr  
Hrana – Određivanje elemenata i elementnih specija – Određivanje aluminija atomskom emisijskom spektrometrijom induktivno spregnutom plazmom (ICP-OES) (EN 17265:2019)  
Foodstuffs – Determination of elements and their chemical species – Determination of aluminium by inductively coupled plasma optical emission spectrometry (ICP-OES) (EN 17265:2019)
- HRN EN ISO 19036:2020 en pr  
Mikrobiologija u lancu hrane – Procjena mjerne nesigurnosti za kvantitativna određivanja (ISO 19036:2019; EN ISO 19036:2019)  
Microbiology of the food chain – Estimation of measurement uncertainty for quantitative determinations (ISO 19036:2019; EN ISO 19036:2019)

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

- HRN EN 16215:2020 en pr  
Hrana za životinje: Metode uzorkovanja i analize – Određivanje dioksina i dioksinu sličnih PCB-a primjenom GC/HRMS i indikatorskih pokazatelja PCB-a primjenom GC/HRMS (EN 16215:2020)  
Animal feeding stuffs: Methods of sampling and analysis – Determination of dioxins and dioxin-like PCBs by GC/HRMS and of indicator PCBs by GC/HRMS (EN 16215:2020)
- HRS CEN/TS 17174:2020 en pr  
Hrana za životinje: Metode uzorkovanja i analize – Kriteriji prihvatljivosti za interno validirane metode analize i metode analize validirane suradničkim pokusima za određivanje teških metala (CEN/TS 17174:2018)  
Animal feeding stuffs: Methods of sampling and analysis – Performance criteria for single laboratory validated and ring-trial validated methods of analysis for the determination of heavy metals (CEN/TS 17174:2018)

## HZN/TO E9, Električna oprema za željeznicu

HRI CLC/TR 50542-1:2020 en pr  
Željeznički sustav – Upravljački uređaj zaslona u upravljačnici (TDC) – 1. dio: Opća arhitektura (CLC/TR 50542-1:2018)  
Railway applications – Driver's cab train display controller (TDC) – Part 1: General architecture (CLC/TR 50542-1:2018)

HRN EN 50641:2020 en pr  
Željeznički sustav – Stabilna postrojenja – Zahtjevi za vrednovanje simulacijskih alata koji se upotrebljavaju za konstruiranje sustava napajanja električne vuče (EN 50641:2020)  
Railway applications – Fixed installations – Requirements for the validation of simulation tools used for the design of traction power supply systems (EN 50641:2020)

HRN EN IEC 60077-3:2020 en pr  
Željeznički sustav – Električna oprema za željeznička vozila – 3. dio: Elektrotehničke komponente – Pravila za istosmjernu prekidače (IEC 60077-3:2019; EN IEC 60077-3:2019)  
Railway applications – Electric equipment for rolling stock – Part 3: Electrotechnical components – Rules for d.c. circuit-breakers (IEC 60077-3:2019; EN IEC 60077-3:2019)

HRN EN IEC 60077-4:2020 en pr  
Željeznički sustav – Električna oprema za željeznička vozila – 4. dio: Elektrotehničke komponente – Pravila za izmjenične prekidače (IEC 60077-4:2019; EN IEC 60077-4:2019)  
Railway applications – Electric equipment for rolling stock – Part 4: Electrotechnical components – Rules for AC circuit-breakers (IEC 60077-4:2019; EN IEC 60077-4:2019)

HRN EN IEC 60077-5:2020 en pr  
Željeznički sustav – Elektrotehnička oprema za željeznička vozila – 5. dio: Elektrotehničke komponente – Pravila za visokonaponske osigurače (IEC 60077-5:2019; EN IEC 60077-5:2019)  
Railway applications – Electric equipment for rolling stock – Part 5: Electrotechnical components – Rules for HV fuses (IEC 60077-5:2019; EN IEC 60077-5:2019)

## HZN/TO E17, Sklopni i upravljački uređaji

HRN EN 62026-2:2013/A1:2020 en pr  
Niskonaponska sklopna aparatura – Sučelja između upravljačkih i periferijskih uređaja – 2. dio: Sučelja za senzor pokretača (IEC 62026-2:2008/am1:2019; EN 62026-2:2013/A1:2019)  
Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 2: Actuator sensor interface (AS-I) (IEC 62026-2:2008/am1:2019; EN 62026-2:2013/A1:2019)

## HZN/TO E23, Električni instalacijski pribor

HRN EN IEC 60309-5:2020 en pr  
Utični pribor za industrijske svrhe – 5. dio: Zahtjevi za dimenzionalnu kompatibilnost i zamjenjivost za utikače, utičnice, spojeve i spojnice na brodovima za niskonaponske sustave za spajanje na obali (LVSC) (IEC 60309-5:2017; EN IEC 60309-5:2019)  
Plugs, socket-outlets and couplers for industrial purposes – Part 5: Dimensional compatibility and interchangeability requirements for plugs, socket-outlets, ship connectors and ship inlets for low-voltage shore connection systems (LVSC) (IEC 60309-5:2017; EN IEC 60309-5:2019)

HRN EN IEC 61535:2020 en pr  
Instalacijske spojnice za trajni priključak u fiksnim instalacijama (IEC 61535:2019; EN IEC 61535:2019)  
Installation couplers intended for permanent connection in fixed installations (IEC 61535:2019; EN IEC 61535:2019)

## HZN/TO E31, Eksplozivne atmosfere

HRN EN ISO 80079-36:2016/Ispr.1:2020 en pr  
Eksplozivne atmosfere – 36. dio: Neelektrična oprema za uporabu u eksplozivnim atmosferama – Osnovne metode i zahtjevi – Tehnički ispravak 1 (ISO 80079-36:2016/Cor 1:2019; EN ISO 80079-36:2016/AC:2019)  
Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements – Technical Corrigendum 1 (ISO 80079-36:2016/Cor 1:2019; EN ISO 80079-36:2016/AC:2019)

## HZN/TO E55, Žice za namote

HRN EN IEC 60317-27-3:2020 en pr  
Specifikacije pojedinih vrsta žica za namote – Dio 27-3: Profilna bakrena žica prekrivena papirnom trakom (IEC 60317-27-3:2019; EN IEC 60317-27-3:2019)  
Specifications for particular types of winding wires – Part 27-3: Paper tape covered rectangular copper wire (IEC 60317-27-3:2019; EN IEC 60317-27-3:2019)

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

HRN EN 60335-2-35:2016/A1:2020 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-35: Posebni zahtjevi protočnih grijača vode (IEC 60335-2-35:2012/am1:2016; EN 60335-2-35:2016/A1:2019)  
Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters (IEC 60335-2-35:2012/am1:2016; EN 60335-2-35:2016/A1:2019)

HRN EN 60335-2-47:2006/A2:2020 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-47: Posebni zahtjevi za ugostiteljske električne kotlove (IEC 60335-2-47:2002/am2:2017; EN 60335-2-47:2003/A2:2019)  
Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans (IEC 60335-2-47:2002/am2:2017; EN 60335-2-47:2003/A2:2019)

HRN EN 60335-2-48:2006/A2:2020 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-48: Posebni zahtjevi za ugostiteljske električne zračne roštilje i pržila kruha (IEC 60335-2-48:2002/am2:2017; EN 60335-2-48:2003/A2:2019)  
Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters (IEC 60335-2-48:2002/am2:2017; EN 60335-2-48:2003/A2:2019)

HRN EN 60335-2-49:2006/A2:2020 en pr  
Kućanski i slični električni aparati – Sigurnost – Dio 2-49: Posebni zahtjevi za ugostiteljske električne aparate za održavanje topline hrane i posuđa (IEC 60335-2-49:2002/am2:2017; EN 60335-2-49:2003/A2:2019)  
Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm (IEC 60335-2-49:2002/am2:2017; EN 60335-2-49:2003/A2:2019)

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

HRN EN IEC 63077:2020 en pr  
Dobra praksa za obnavljanje medicinske opreme za snimanje (IEC 63077:2019; EN IEC 63077:2019)  
Good refurbishment practices for medical imaging equipment (IEC 63077:2019; EN IEC 63077:2019)

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

HRN EN 50325-1:2020 en pr  
Industrijski komunikacijski podsustav utemeljen na ISO 11898 (CAN) za sučelja prema regulacijskomu uređaju – 1. dio: Opći zahtjevi (EN 50325-1:2019)  
Industrial communications subsystem based on ISO 11898 (CAN) for controller-device interfaces – Part 1: General requirements (EN 50325-1:2019)

## HZN/TO E88, Vjetroagregati

HRN EN 61400-12-1:2017/Ispr.1:2020 en pr  
Sustavi za proizvodnju energije iz vjetro – Dio 12-1: Mjerenje značajka snage vjetroagregata koji proizvode električnu energiju (IEC 61400-12-1:2017/Corr.1:2019; EN 61400-12-1:2017/AC:2019-12)  
Wind energy generation systems – Part 12-1: Power performance measurement of electricity producing wind turbines (IEC 61400-12-1:2017/Corr.1:2019; EN 61400-12-1:2017/AC:2019-12)



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

HRN EN 50083-2-4:2020 en pr  
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – Dio 2-4: Filteri za suzbijanje smetnji koji rade u rasponu od 700 MHz do 800 MHz za DTT prijem (EN 50083-2-4:2019)  
Cable networks for television signals, sound signals and interactive services – Part 2-4: Interference Mitigation Filters operating in the 700 MHz and 800 MHz bands for DTT reception (EN 50083-2-4:2019)

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

HRN EN 300 175-1 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 1. dio: Pregled (EN 300 175-1 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview (EN 300 175-1 V2.8.1:2019)

HRN EN 300 175-2 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 2. dio: Fizički sloj (PHL) (EN 300 175-2 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL) (EN 300 175-2 V2.8.1:2019)

HRN EN 300 175-3 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 3. dio: Sloj upravljanja pristupa prijenosnom mediju (MAC) (EN 300 175-3 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer (EN 300 175-3 V2.8.1:2019)

HRN EN 300 175-4 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 4. dio: Sloj upravljanja podatkovnim linkom (DLC) (EN 300 175-4 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer (EN 300 175-4 V2.8.1:2019)

HRN EN 300 175-5 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 5. dio: Mrežni (NWK) sloj (EN 300 175-5 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer (EN 300 175-5 V2.8.1:2019)

HRN EN 300 175-6 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 6. dio: Identiteti i adresiranje (EN 300 175-6 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing (EN 300 175-6 V2.8.1:2019)

HRN EN 300 175-7 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 7. dio: Značajke sigurnosti (EN 300 175-7 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features (EN 300 175-7 V2.8.1:2019)

HRN EN 300 175-8 V2.8.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 8. dio: Kodiranje i prijenos govora i zvuka (EN 300 175-8 V2.8.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission (EN 300 175-8 V2.8.1:2019)

HRN EN 300 176-2 V2.3.1:2020 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Ispitna specifikacija – 2. dio: Audio i govor (EN 300 176-2 V2.3.1:2019)  
Digital Enhanced Cordless Telecommunications (DECT) – Test specification – Part 2: Audio and speech (EN 300 176-2 V2.3.1:2019)

HRN EN 301 489-1 V2.2.3:2020 en pr  
Norma za elektromagnetsku kompatibilnost (EMC) za radijsku opremu i službe – 1. dio: Opći tehnički zahtjevi – Harmonizirana norma za elektromagnetsku kompatibilnost (EN 301 489-1 V2.2.3:2019)  
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements – Harmonised Standard for ElectroMagnetic Compatibility (EN 301 489-1 V2.2.3:2019)

HRN EN 302 663 V1.3.1:2020 en pr  
Inteligentni transportni sustavi (ITS) – ITS-G5 specifikacije pristupnog sloja za inteligentne transportne sustave koji rade u frekvencijskom pojasu od 5 MHz (EN 302 663 V1.3.1:2020)  
Intelligent Transport Systems (ITS) – ITS-G5 Access layer specification for Intelligent Transport Systems operating in the 5 GHz frequency band (EN 302 663 V1.3.1:2020)

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

HRN EN 16234-1:2020 en pr  
Okvir e-kompetencija (e-CF) – Zajednički europski okvir za IKT profesionalce u svim industrijskim sektorima – 1. dio: Okvir (EN 16234-1:2019)  
e-Competence Framework (e-CF) – A common European Framework for ICT Professionals in all industry sectors – Part 1: Framework (EN 16234-1:2019)

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

HRN EN ISO 3233-1:2020 en pr  
Boje i lakovi – Određivanje volumnog postotka nehlapljivih tvari – 1. dio: Metoda s upotrebom presvučene ispitne ploče za određivanje nehlapljivih tvari i određivanje gustoće suhog filma po Arhimedovom načelu (ISO 3233-1:2019; EN ISO 3233-1:2019)  
Paints and varnishes – Determination of percentage volume of non-volatile matter – Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry film density by the Archimedes principle (ISO 3233-1:2019; EN ISO 3233-1:2019)

HRN EN ISO 6504-3:2020 en pr  
Boje i lakovi – Određivanje pokrivne moći – 3. dio: Određivanje pokrivne moći boja za zidove, beton i za uporabu u unutarnjim prostorima (ISO 6504-3:2019; EN ISO 6504-3:2019)  
Paints and varnishes – Determination of hiding power – Part 3: Determination of hiding power of paints for masonry, concrete and interior use (ISO 6504-3:2019; EN ISO 6504-3:2019)

HRN EN ISO/ASTM 52907:2020 en pr  
Aditivna proizvodnja – Sirovine – Metode za karakteriziranje metalnih praškova (ISO/ASTM 52907:2019; EN ISO/ASTM 52907:2019)  
Additive manufacturing – Feedstock materials – Methods to characterize metal powders (ISO/ASTM 52907:2019; EN ISO/ASTM 52907:2019)

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

HRN EN 1047-2:2020 en pr  
Jedinice za sigurno pohranjivanje – Klasifikacija i metode ispitivanja vatrootpornosti – 2. dio: Prostorije za zaštitu podataka i spremnik podataka (EN 1047-2:2019)  
Secure storage units – Classification and methods of test for resistance to fire – Part 2: Data rooms and data container (EN 1047-2:2019)

HRN EN 1143-1:2020 en pr  
Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – 1. dio: Sefovi, sefovi bankomata, trezorska vrata i trezori (EN 1143-1:2019)  
Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms (EN 1143-1:2019)

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

HRN EN 17161:2020 en pr  
Dizajn za sve – Pristupačnost proizvoda, robe i usluga  
– Proširenje kruga korisnika (EN 17161:2019)  
Design for All – Accessibility following a Design for All  
approach in products, goods and services – Extending the  
range of users (EN 17161:2019)

## HZN/TU I2, Strojstvo 2

HRN EN ISO 5010:2020 en pr  
Strojevi za zemljane radove – Strojevi s kotačima – Zahtjevi  
za upravljanje (ISO 5010:2019; EN ISO 5010:2019)  
Earth-moving machinery – Wheeled machines – Steering  
requirements (ISO 5010:2019; EN ISO 5010:2019)

## HZN/TU M1, Metalni materijali 1

HRN EN ISO 8654:2018/A1:2020 en pr  
Nakit – Boje legura zlata – Definicija, raspon boja i označavanje  
(ISO 8654:2018/Amd 1:2019; EN ISO 8654:2018/A1:2019)  
Jewellery – Colours of gold alloys – Definition, range of  
colours and designation (ISO 8654:2018/Amd 1:2019;  
EN ISO 8654:2018/A1:2019)

HRN EN ISO 10070:2020 en pr  
Metalni prah – Određivanje specifične površine mjerenjem  
propusnosti zraka kroz slojeve praha u uvjetima stacionarnog  
protoka (ISO 10070:2019; EN ISO 10070:2019)  
Metallic powders – Determination of envelope-specific surface  
area from measurements of the permeability to air of a powder  
bed under steady-state flow conditions (ISO 10070:2019;  
EN ISO 10070:2019)

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

HRN EN 2002-16:2020 en pr  
Zrakoplovstvo – Metalni materijali – Metode ispitivanja  
– 16. dio: Nerazorno ispitivanje – Ispitivanje penetrantima  
(EN 2002-16:2019)  
Aerospace series – Metallic materials – Test methods  
– Part 16: Non-destructive testing – Penetrant testing  
(EN 2002-16:2019)

HRN EN 2002-21:2020 en pr  
Zrakoplovstvo – Metalni materijali – Metode ispitivanja – 21. dio:  
Radiografsko ispitivanje odljevaka (EN 2002-21:2019)  
Aerospace series – Metallic materials – Test methods – Part 21:  
Radiographic testing of castings (EN 2002-21:2019)

HRN EN 2366:2020 en pr  
Zrakoplovstvo – Lim i trake – Legure otporne na toplinu  
– Hladno valjano – Debljina  $a \leq 3$  mm – Dimenzije  
(EN 2366:2019)  
Aerospace series – Sheets and strips – Heat resisting  
alloys – Cold rolled – Thickness  $a \leq 3$  mm – Dimensions  
(EN 2366:2019)

HRN EN 2390:2020 en pr  
Zrakoplovstvo – Legura aluminija 6082-T6 – Cijevi za  
konstrukcije  $0,6 \text{ mm} \leq a \leq 12,5 \text{ mm}$  (EN 2390:2019)  
Aerospace series – Aluminium alloy 6082-T6 – Tubes for  
structures  $0,6 \text{ mm} \leq a \leq 12,5 \text{ mm}$  (EN 2390:2019)

HRN EN 2400:2020 en pr  
Zrakoplovstvo – Legura na bazi nikla otporna na toplinu  
NI-P96-HT – Hladno vučena i obrađena precipitatom – Žica  
–  $D \leq 10$  mm (EN 2400:2019)  
Aerospace series – Heat resisting nickel base alloy  
Ni-P96-HT – Cold drawn and precipitation treated – Wire  
–  $D \leq 10$  mm (EN 2400:2019)

HRN EN 2451:2020 en pr  
Zrakoplovstvo – Čelik 31Ni10 –  $1 \text{ 230 MPa} \leq R_m \leq 1 \text{ 420 MPa}$   
– Otkivci –  $De \leq 40$  mm (EN 2451:2019)  
Aerospace series – Steel 31Ni10 –  $1 \text{ 230 MPa} \leq R_m \leq 1 \text{ 420 MPa}$   
– Forgings –  $De \leq 40$  mm (EN 2451:2019)

HRN EN 2476:2020 en pr  
Zrakoplovstvo – Čelik FE-PL74 –  $1 \text{ 100 MPa} \leq R_m \leq 1 \text{ 300 MPa}$   
– Otkivci –  $De \leq 100$  mm (EN 2476:2019)  
Aerospace series – Steel FE-PL74 –  $1 \text{ 100 MPa} \leq R_m \leq 1 \text{ 300 MPa}$   
– Forgings –  $De \leq 100$  mm (EN 2476:2019)

HRN EN 2502:2020 en pr  
Zrakoplovstvo – Čelik X5CrNoMoCuNb14-5 (1.4594)  
–  $930 \text{ MPa} \leq R_m \leq 1 \text{ 080 MPa}$  – Šipke (EN 2502:2019)  
Aerospace series – Steel X5CrNoMoCuNb14-5 (1.4594)  
–  $930 \text{ MPa} \leq R_m \leq 1 \text{ 080 MPa}$  – Bars (EN 2502:2019)

HRN EN 2503:2020 en pr  
Zrakoplovstvo – Čelik X5CrNoMoCuNb14-5 (1.4594)  
–  $930 \text{ MPa} \leq R_m \leq 1 \text{ 080 MPa}$  – Otkivci –  $De \leq 150$  mm  
(EN 2503:2019)  
Aerospace series – Steel X5CrNoMoCuNb14-5 (1.4594)  
–  $930 \text{ MPa} \leq R_m \leq 1 \text{ 080 MPa}$  – Forgings –  $De \leq 150$  mm  
(EN 2503:2019)

HRN EN 2516:2020 en pr  
Zrakoplovstvo – Pasivizacija čelika otpornih na koroziju i  
dekontaminacija legura na bazi nikla (EN 2516:2020)  
Aerospace series – Passivation of corrosion resisting steels  
and decontamination of nickel base alloys (EN 2516:2020)

HRN EN 2667-3:2020 en pr  
Zrakoplovstvo – Nemetalni materijali – Pjenasti konstrukcijski  
adhezivi – Metode ispitivanja – 3. dio: Omjer bubrenja i sadržaj  
hlapljivih tvari (EN 2667-3:2019)  
Aerospace series – Non-metallic materials – Foaming  
structural adhesive films – Test methods – Part 3: Expansion  
ratio and volatile content (EN 2667-3:2019)

HRN EN 2816:2020 en pr  
Zrakoplovstvo – Čelik FE-PM1802 (X5CrNiCu15-5)  
– Pretopljen s topljivom elektrodom – Obrađen otopinom i  
precipitatom – Otkivci –  $a$  ili  $D \leq 200$  mm –  $R_m \geq 965$  MPa  
(EN 2816:2019)  
Aerospace series – Steel FE-PM1802 (X5CrNiCu15-5)  
– Consumable electrode remelted – Solution treated  
and precipitation treated – Forgings –  $a$  or  $D \leq 200$  mm  
–  $R_m \geq 965$  MPa (EN 2816:2019)

HRN EN 2878:2020 en pr  
Zrakoplovstvo – Matice, sidrene, samozatvarajuće, stabilne  
na zraku, brtvne, slobodne, dvokrilne, s upustom, od  
legure čelika, prevučene kadmijem, podmazane s MoS2  
– Klasifikacija:  $900 \text{ MPa}$  (pri temperaturi okoline)/  $235 \text{ }^\circ\text{C}$   
(EN 2878:2018+AC:2019)  
Aerospace series – Nuts, anchor, self-locking, air resistant,  
sealing, floating, two lug, with counterbore, in alloy steel,  
cadmium plated, MoS2 lubricated – Classification:  $900 \text{ MPa}$   
(at ambient temperature)/ $235 \text{ }^\circ\text{C}$  (EN 2878:2018+AC:2019)

HRN EN 2880:2020 en pr  
Matice, sidrene, samozatvarajuće, otporne na gorivo, brtvne,  
slobodne, dvokrilne, s upustom, od legure čelika, prevučene  
kadmijem, podmazane s MoS2 – Klasifikacija:  $900 \text{ MPa}$  (pri  
temperaturi okoline) /  $120 \text{ }^\circ\text{C}$  (EN 2880:2018+AC:2019)  
Aerospace series – Nuts, anchor, self-locking, fuel resistant,  
sealing, floating, two lug, with counterbore, in alloy steel,  
cadmium plated, MoS2 lubricated – Classification:  $900 \text{ MPa}$   
(at ambient temperature) /  $120 \text{ }^\circ\text{C}$  (EN 2880:2018+AC:2019)

HRN EN 2943:2020 en pr  
Zrakoplovstvo – Zatici, sa MJ i M vijčanim navojem, sa  
spiralnim svitkom – Tehnička specifikacija (EN 2943:2019)  
Aerospace series – Inserts, MJ and M screw threads, helical  
coil – Technical specification (EN 2943:2019)

HRN EN 2957:2020 en pr  
Zrakoplovstvo – Metode pripreme kovanih uzoraka  
(EN 2957:2019)  
Aerospace series – Method of preparation of forged samples  
(EN 2957:2019)

HRN EN 3018:2020 en pr  
Zrakoplovstvo – Legura otporna na toplinu NI-PH2801  
(NiCr16Fe7Ti3Nb1Al1) – Pretopljen topljivom elektrodom  
– Hladno vučena žica za izradu navojnih zatika –  $D \leq 3$  mm  
(EN 3018:2019)  
Aerospace series – Heat resisting alloy NI-PH2801  
(NiCr16Fe7Ti3Nb1Al1) – Consumable electrode remelted  
– Cold drawn wire for the manufacture of thread inserts  
–  $D \leq 3$  mm (EN 3018:2019)

HRN EN 3155-003:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u  
elementima za povezivanje – Dio 003: Kontakti, električni,  
ženski, tip A, za krimpanje, klasa S – Norma za proizvod  
(EN 3155-003:2019)  
Aerospace series – Electrical contacts used in elements of  
connection – Part 003: Contacts, electrical, female, type A,  
crimp, class S – Product standard (EN 3155-003:2019)

- HRN EN 3155-016:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 016: Kontakti, električni, muški, tip A, za krimpiranje, klasa S – Norma za proizvod (EN 3155-016:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 016: Contacts, electrical, male, type A, crimp, class S – Product standard (EN 3155-016:2019)
- HRN EN 3155-044:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 044: Kontakti, električni, muški, tip A, dvostruko krimpiani, klasa T – Norma za proizvod (EN 3155-044:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 044: Contacts, electrical, male 044, type A, double crimping, class T – Product standard (EN 3155-044:2019)
- HRN EN 3155-045:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 045: Kontakti, električni, ženski, tip A, dvostruko krimpiani, klasa T – Norma za proizvod (EN 3155-045:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 045: Contacts, electrical, female, type A, double crimping, class T – Product standard (EN 3155-045:2019)
- HRN EN 3155-076:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 076: Kontakti, električni, muški, tip A, za krimpiranje, klasa R – Norma za proizvod (EN 3155-076:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 076: Contacts, electrical, male, type A, crimp, class R – Product standard (EN 3155-076:2019)
- HRN EN 3155-077:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 077: Kontakti, električni, ženski, tip A, za krimpiranje, klasa R – Norma za proizvod (EN 3155-077:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 077: Contacts, electrical, female, type A, crimp, class R – Product standard (EN 3155-077:2019)
- HRN EN 3155-083:2020 en pr  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 083: Kontakti, električni, ženski, tip A, za krimpiranje, klasa S, veličina 8 – Norma za proizvod (EN 3155-083:2019)  
Aerospace series – Electrical contacts used in elements of connection – Part 083: Contact, electrical, female, type A, crimp, class S, size 8 – Product standard (EN 3155-083:2019)
- HRN EN 3278:2020 en pr  
Zrakoplovstvo – Navlake, cjevaste, s izbočenom glavom, od čelika otpornog na koroziju, pasivizirane (debljina stijenke 0,25 mm) (EN 3278:2019)  
Aerospace series – Sleeves, tubular, protruding head, in corrosion resisting steel, passivated (0,25 mm wall thickness) (EN 3278:2019)
- HRN EN 3371:2020 en pr  
Zrakoplovstvo – Električno povezivanje – Tehnička specifikacija (EN 3371:2019)  
Aerospace series – Electrical bonding – Technical specification (EN 3371:2019)
- HRN EN 3468:2020 en pr  
Zrakoplovstvo – Čelik X8CrNiTi18-10 (1.4878/1.4544) – Omekšan – 500 MPa ≤ Rm ≤ 700 MPa – Otkivci – De ≤ 100 mm (EN 3468:2019)  
Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Softened – 500 MPa ≤ Rm ≤ 700 MPa – Forgings – De ≤ 100 mm (EN 3468:2019)
- HRN EN 3481:2020 en pr  
Zrakoplovstvo – Čelik X8CrNiTi18-10 (1.4878/1.4544) – Žareni – Preporučena toplinska obrada: omekšan – Šuplje šipke – 5 mm ≤ a ≤ 12 mm (EN 3481:2019)  
Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Annealed – Reference heat treatment: softened – Hollow bars – 5 mm ≤ a ≤ 12 mm (EN 3481:2019)
- HRN EN 3510:2020 en pr  
Zrakoplovstvo – Legura otporna na toplinu FE-PA2602 (X4NiCrTiMoV26-15) – Obraden otopinom i precipitatom – Šipke i profili – De ≤ 100 mm (EN 3510:2019)  
Aerospace series – Heat resisting alloy FE-PA2602 (X4NiCrTiMoV26-15) – Solution treated and precipitation treated – Bar and section – De ≤ 100 mm (EN 3510:2019)
- HRN EN 3660-004:2020 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 004: Kabelski izlaz, tip A, ravni, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-004:2018+AC:2019)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief – Product standard (EN 3660-004:2018+AC:2019)
- HRN EN 3660-005:2020 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 005: Kabelski izlaz, tip A, 90°, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-005:2018+AC:2019)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief – Product standard (EN 3660-005:2018+AC:2019)
- HRN EN 3660-033:2020 en pr  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 033: Traka od nehrđajućeg čelika, stila Z, za pričvršćivanje pojedinih i/ili cjelovitih zaslona na utičnice – Norma za proizvod (EN 3660-033:2019)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 033: Stainless steel banding band, style Z, for attachment of individual and/or overall screens to cable outlets – Product standard (EN 3660-033:2019)
- HRN EN 3740:2020 en pr  
Zrakoplovstvo – Matice, s jačim strukom, tanke šesterokutne glave, struk s uskom tolerancijom, kratkog navoja, od legure titanija, anodizirane, prevučene s MoS<sub>2</sub> – Klasifikacija: 1 100 MPa (pri temperaturi okoline)/315 °C (EN 3740:2019)  
Aerospace series – Bolts, shouldered, thin hexagonal head, close tolerance shank, short thread, in titanium alloy, anodized, MoS<sub>2</sub> coated – Classification: 1 100 MPa (at ambient temperature)/315 °C (EN 3740:2019)
- HRN EN 3837:2020 en pr  
Zrakoplovstvo – Boje i lakovi – Priroda i metoda pripreme površine ispitnih uzoraka od legura aluminija (EN 3837:2019)  
Aerospace series – Paints and varnishes – Nature and methods for surface preparation of test pieces in aluminium alloys (EN 3837:2019)
- HRN EN 3847:2020 en pr  
Zrakoplovstvo – Boje i lakovi – Određivanje brzine taloženja (EN 3847:2019)  
Aerospace series – Paints and varnishes – Determination of sedimentation rating (EN 3847:2019)
- HRN EN 4161:2020 en pr  
Zrakoplovstvo – Vijci, s ravnom glavom, s ujednačenim križnim urezom, normalnog struka grube tolerancije, dugog navoja, od legure čelika, prevučeni kadmijem – Klasifikacija: 1 100 MPa (pri temperaturi okoline)/235 °C (EN 4161:2019)  
Aerospace series – Screws, pan head, offset cruciform recess, coarse tolerance normal shank, long thread, in alloy steel, cadmium plated – Classification: 1 100 PMA (at ambient temperature)/235 °C (EN 4161:2019)
- HRN EN 4165-022:2020 en pr  
Zrakoplovstvo – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – Dio 022: Alat za umetanje/izvlačenje kod uklanjanja modula – Norma za proizvod (EN 4165-022:2019)  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 022: Insertion/extraction tool for removal of modules – Product standard (EN 4165-022:2019)
- HRN EN 4539-2:2020 en pr  
Zrakoplovstvo – Kuglasti klizni ležajevi, od čelika otpornog na koroziju, sa samopodmazujućim prstenom – Povišeno opterećenje pri niskim oscilacijama – Široke serije – Dimenzije i opterećenja – 2. dio: Nizovi u inčima (EN 4539-2:2019)  
Aerospace series – Bearing, spherical, plain, in corrosion resisting steel with self-lubricating liner – Elevated load under low oscillations – Wide series – Dimensions and loads – Part 2: Inch series (EN 4539-2:2019)

- HRN EN 4609:2020 en pr  
Zrakoplovstvo – Udubljenja na spiralnom pogonu za navojne spojne elemente – Geometrijska definicija i tehnički zahtjevi (EN 4609:2019)  
Aerospace series – Spiral drive recesses for threaded fasteners – Geometrical definition and technical requirements (EN 4609:2019)
- HRN EN 4612-006:2020 en pr  
Zrakoplovstvo – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – Dio 006: Bakar prevučeni kositrom – Radne temperature između -65 °C i 135 °C – Dvostruka izolacija zida za upotrebu na otvorenom, s oblogom i okloptom (opleten) – Za ispis UV laserskim pisačem – Norma za proizvod (EN 4612-006:2019)  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 006: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard (EN 4612-006:2019)
- HRN EN 4708-105:2020 en pr  
Zrakoplovstvo – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 105. dio: Polusavitljive od poliviniliden fluorida (PVDF) – Temperaturni raspon od -55 °C do 150 °C – Norma za proizvod (EN 4708-105:2019)  
Aerospace series – Sleeving; heat-shrinkable, for binding, insulation and identification – Part 105: Semi-flexible polyvinylidene fluoride (PVDF) – Temperature range -55 °C and 150 °C – Product Standard (EN 4708-105:2019)
- HRN EN 4708-107:2020 en pr  
Zrakoplovstvo – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 107. dio: Politetrafluoretilen (PTFE) – Radne temperature od -65 °C do 260 °C – Norma za proizvod (EN 4708-107:2019)  
Aerospace series – Sleeving, heat-shrinkable, for binding, insulation and identification – Part 107: Polytetrafluoroethylene (PTFE) – Operating temperatures – 65 °C to 260 °C – Product standard (EN 4708-107:2019)
- HRN EN 4708-108:2020 en pr  
Zrakoplovstvo – Navlake, koje se sužavaju prilikom izlaganja toplini, za omotavanje, izolaciju i označavanje – 108. dio: Navlake s ograničenom opasnošću od vatre – Radne temperature od -65 °C do 150 °C – Norma za proizvod (EN 4708-108:2019)  
Aerospace series – Sleeving, heat-shrinkable, for binding, insulation and identification – Part 108: Limited fire hazard sleeving – Operating temperatures -65 °C to 150 °C – Product standard (EN 4708-108:2019)
- HRN EN 4726:2020 en pr  
Zrakoplovstvo – Parametri za prihvaćanje estetskih inačica za svu vidljivu opremu ugrađenu u zrakoplovnu kabinu u svim varijantama ugovora (EN 4726:2018+AC:2019)  
Aerospace series – Acceptance parameters of aesthetical variations for all visible equipment installed in aircraft cabins under all contractual variations (EN 4726:2018+AC:2019)
- HRN EN 4854-1:2020 en pr  
Zrakoplovstvo – Ležajevi, kuglasti klizni izrađeni od čelika otpornog na koroziju sa samopodmazujućom oblogom, maloga okretnog momenta pokretanja i niskog koeficijenta trenja, s povišenim brojem radnih ciklusa pri malim oscilacijama u različitim radnim uvjetima, uska serija – 1. dio: Dimenzije i opterećenja za usku seriju (EN 4854-1:2019)  
Aerospace series – Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, low starting torque and low friction coefficient, elevated duty cycles under low oscillations at different operating conditions, narrow series – Part 1: Dimensions and loads for narrow series (EN 4854-1:2019)
- HRN EN 4854-2:2020 en pr  
Zrakoplovstvo – Ležajevi, kuglasti klizni izrađeni od čelika otpornog na koroziju sa samopodmazujućom oblogom, maloga okretnog momenta pokretanja i niskog koeficijenta trenja, s povišenim brojem radnih ciklusa pri malim oscilacijama u različitim radnim uvjetima, široka serija – 2. dio: Dimenzije i opterećenja (EN 4854-2:2019)  
Aerospace series – Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, low starting torque and low friction coefficient, elevated duty cycles under low oscillations at different operating conditions, wide series – Part 2: Dimensions and loads (EN 4854-2:2019)
- HRN EN 4854-3:2020 en pr  
Zrakoplovstvo – Ležajevi, kuglasti klizni izrađeni od čelika otpornog na koroziju sa samopodmazujućom oblogom, maloga okretnog momenta pokretanja i niskog koeficijenta trenja, s povišenim brojem radnih ciklusa pri malim oscilacijama u različitim radnim uvjetima – 3. dio: Tehnička specifikacija (EN 4854-3:2019)  
Aerospace series – Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, low starting torque and low friction coefficient, elevated duty cycles under low oscillations at different operating conditions – Part 3: Technical specification (EN 4854-3:2019)
- HRN EN 4868:2020 en pr  
Zrakoplovstvo – Anodno elektronanošenje temeljnih premaza bez šesterovalentnog kroma (EN 4868:2019)  
Aerospace series – Anodic electrodeposition of hexavalent chromium free primer (EN 4868:2019)
- HRN EN 4875:2020 en pr  
Zrakoplovstvo – Površinske obrade – Metode ispitivanja za mjerenje električnog kontaktnog otpora (EN 4875:2020)  
Aerospace series – Surface treatments – Test method for measurement of electrical contact resistance (EN 4875:2020)
- HRN EN 6049-004:2020 en pr  
Zrakoplovstvo – Električni kabeli, ugradnja – Zaštitna navlaka od meta-aramidnih vlakana – Dio 004: Opletena, cjevasta, visoke rastezljivosti – Norma za proizvod (EN 6049-004:2019)  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 004: Braided, tubular, high expandable – Product standard (EN 6049-004:2019)
- HRN EN 9138:2020 en pr  
Zrakoplovstvo – Sustavi upravljanja kvalitetom – Statistički zahtjevi za prihvaćanje proizvoda (EN 9138:2019)  
Aerospace Series – Quality Management Systems – Statistical Product – Acceptance Requirements (EN 9138:2019)
- HRN EN 16603-11:2020 en pr  
Svemirsko inženjerstvo – Definicija razina spremnosti za tehnologiju (TRLs) i kriteriji za ocjenu (ISO 16290:2013, MOD; EN 16603-11:2019)  
Space engineering – Definition of the Technology Readiness Levels (TRLs) and their criteria of assessment (ISO 16290:2013, MOD; EN 16603-11:2019)
- HRN EN 16842-3:2020 en pr  
Industrijska vozila na motorni pogon – Vidljivost – Metode ispitivanja i verifikacija – 3. dio: Regalni viljučari kapaciteta do 10 000 kg i uključujući 10 000 kg (EN 16842-3:2018)  
Powered industrial trucks – Visibility – Test methods and verification – Part 3: Reach trucks up to and including 10 000 kg capacity (EN 16842-3:2018)

## HZN/TU U1, Opća elektrotehnika 1

- HRN EN IEC 60721-2-4:2020 en pr  
Klasifikacija uvjeta okoliša – Dio 2-4: Uvjeti okoliša koji se pojavljuju u prirodi – Sunčevo zračenje i temperatura (IEC 60721-2-4:2018; EN IEC 60721-2-4:2018)  
Classification of environmental conditions – Part 2-4: Environmental conditions appearing in nature – Solar radiation and temperature (IEC 60721-2-4:2018; EN IEC 60721-2-4:2018)
- HRN EN IEC 60721-2-4:2020/Ispr.1:2020 en pr  
Klasifikacija uvjeta okoliša – Dio 2-4: Uvjeti okoliša koji se pojavljuju u prirodi – Sunčevo zračenje i temperatura (EN IEC 60721-2-4:2018/AC:2018)  
Classification of environmental conditions – Part 2-4: Environmental conditions appearing in nature – Solar radiation and temperature (EN IEC 60721-2-4:2018/AC:2018)
- HRN EN IEC 61788-24:2020 en pr  
Supravodljivost – 24. dio: Mjerenje kritične struje – Preostala kritična struja nakon dvostrukog savijanja srebrom obloženih Bi-2223 supravodljivih žica na sobnoj temperaturi (IEC 61788-24:2018; EN IEC 61788-24:2018)  
Superconductivity – Part 24: Critical current measurement – Retained critical current after double bending at room temperature of Ag-sheathed Bi-2223 superconducting wires (IEC 61788-24:2018; EN IEC 61788-24:2018)
- HRN EN IEC 62430:2020 en pr  
Dizajn s obzirom na brigu o okolišu (ECD) – Načela, zahtjevi i smjernice (IEC 62430:2019; EN IEC 62430:2019)  
Environmentally Conscious Design (ECD) – Principles, requirements and guidance (IEC 62430:2019; EN IEC 62430:2019)

## HZN/TU V1, *Elektronika 1*

HRN EN IEC 60512-28-100:2020 en pr  
Konektori za električnu i elektroničku opremu – Ispitivanja i mjerenja – Dio 28-100: Ispitivanja integriteta signala do 2 000 MHz – Ispitivanja 28a do 28g (IEC 60512-28-100:2019; EN IEC 60512-28-100:2019)  
Connectors for electrical and electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 2 000 MHz – Tests 28a to 28g (IEC 60512-28-100:2019; EN IEC 60512-28-100:2019)

HRN EN IEC 60793-2:2020 en pr  
Optička vlakna – 2. dio: Specifikacija proizvoda – Općenito (IEC 60793-2:2019; EN IEC 60793-2:2019)  
Optical fibres – Part 2: Product specifications – General (IEC 60793-2:2019; EN IEC 60793-2:2019)

HRN EN IEC 60904-4:2020 en pr  
Fotonaponski uređaji – 4. dio: Referentni solarni uređaji – Postupci za utvrđivanje sljedivosti umjeravanja (IEC 60904-4:2019; EN IEC 60904-4:2019)  
Photovoltaic devices – Part 4: Reference solar devices – Procedures for establishing calibration traceability (IEC 60904-4:2019; EN IEC 60904-4:2019)

HRN EN IEC 61300-2-54:2020 en pr  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Osnovni postupci ispitivanja i mjerenja – Dio 2-54: Ispitivanja – Korozivna atmosfera (mješoviti plin) (IEC 61300-2-54:2019; EN IEC 61300-2-54:2019)  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-54: Tests – Corrosive atmosphere (mixed gas) (IEC 61300-2-54:2019; EN IEC 61300-2-54:2019)

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

HRN EN 50636-2-107:2015/A2:2020 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/A2:2020)  
Safety of household and similar appliances – Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (EN 50636-2-107:2015/A2:2020)

HRN EN 50676:2020 en pr  
Električna oprema koja se upotrebljava za otkrivanje i mjerenje koncentracije rashladnih plinova – Izvedbeni zahtjevi i metode ispitivanja (EN 50676:2019)  
Electrical equipment used for detection and concentration measurement of refrigerant gases – Performance requirements and test methods (EN 50676:2019)

### 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 8, *Brodogradnja*

prEN ISO 8847 en  
Small craft – Steering gear – Cable over pulley systems (ISO/DIS 8847:2019)  
Mala plovila – Kormilarski uređaj – Sustavi užadi i užnaca (ISO/DIS 8847:2019)

prEN ISO 10592 en  
Small craft – Hydraulic steering systems (ISO/DIS 10592:2019)  
Mala plovila – Hidraulički kormilarski sustav (ISO/DIS 10592:2019)

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

prEN 15199-1 en  
Petroleum products – Determination of boiling range distribution by gas chromatography method – Part 1: Middle distillates and lubricating base oils  
Naftni proizvodi – Određivanje područja vrenja metodom plinske kromatografije – 1. dio: Srednji destilati i maziva bazna ulja

prEN 15199-2 en  
Petroleum products – Determination of boiling range distribution by gas chromatography method – Part 2: Heavy distillates and residual fuels  
Naftni proizvodi – Određivanje područja vrenja metodom plinske kromatografije – 2. dio: Teški destilati i ostatna goriva

## HZN/TO 37, *Terminologija*

ISO 30042:2019 en  
Management of terminology resources – TermBase eXchange (TBX)  
Upravljanje terminološkim resursima – Razmjena terminoloških baza (TBX)

## HZN/TO 43, *Akustika*

prEN ISO 717-1 en  
Acoustics – Rating of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation (ISO/DIS 717-1:2019)  
Akustika – Određivanje jednobrojne vrijednosti zvučne izolacije zgrada i građevnih dijelova zgrade – 1. dio: Zračna zvučna izolacija (ISO/DIS 717-1:2019)

prEN ISO 717-2 en  
Acoustics – Rating of sound insulation in buildings and of building elements – Part 2: Impact sound insulation (ISO/DIS 717-2:2019)  
Akustika – Određivanje jednobrojne vrijednosti zvučne izolacije zgrada i građevnih dijelova zgrade – 2. dio: Udarana zvučna izolacija (ISO/DIS 717-2:2019)

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

ISO 3901:2019 en  
Information and documentation – International Standard Recording Code  
Informacije i dokumentacija – Međunarodni standardni kod za snimke (ISRC)

ISO 8126:2019 en  
Micrographics – Duplicating film; silver; diazo and vesicular – Specifications and measurement for visual density  
Mikrografija – Umnažanje filma, srebrni, diazo i mjehuričasti – Specifikacije i mjerenje optičke gustoće

ISO 15511:2019 en  
Information and documentation – International standard identifier for libraries and related organizations (ISIL)  
Informacije i dokumentacija – Međunarodni standardni identifikator za knjižnice i srodne ustanove (ISIL)

ISO 30301:2019 en  
Information and documentation – Management systems for records – Requirements  
Informacije i dokumentacija – Sustavi upravljanja zapisima – Zahtjevi

## HZN/TO 108, *Mehaničke vibracije i udari*

ISO 13373-2:2016 en  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 2: Processing, analysis and presentation of vibration data  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 2. dio: Obrada, analiza i prikazivanje vibracijskih podataka

ISO 13373-3:2015 en  
Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 3: Guidelines for vibration diagnosis  
Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 3. dio: Smjernice za vibracijsku dijagnostiku

ISO 13373-7:2017 en

Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 7: Diagnostic techniques for machine sets in hydraulic power generating and pump-storage plants

Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 7. dio: Dijagnostičke metode za strojne sklopove u hidrauličkim postrojenjima za proizvodnju energije i crpnim postrojenjima

ISO 13373-9:2017 en

Condition monitoring and diagnostics of machines – Vibration condition monitoring – Part 9: Diagnostic techniques for electric motors

Nadzor stanja i dijagnostika strojeva – Vibracijski nadzor stanja – 9. dio: Dijagnostičke metode za električne motore

### **HZN/TO 136, Namještaj**

EN 16890:2017/prA1 en

Children's furniture – Mattresses for cots and cribs – Safety requirements and test methods

Namještaj za djecu – Madraci za dječje krevete i dječje krevetiće – Sigurnosni zahtjevi i metode ispitivanja

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

prEN ISO 22097 en

Thermal insulation for buildings – Reflective insulation products – Determination of thermal performance (ISO/DIS 22097:2019)

Toplinska izolacija za zgrade – Reflektirajući izolacijski proizvodi – Određivanje deklariranoga toplinskog svojstva (ISO/DIS 22097:2019)

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

ISO 17123-9:2018 en

Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 9: Terrestrial laser scanners

Optika i optički instrumenti – Terenski postupci ispitivanja geodetskih instrumenata i instrumenata izmjere – 9. dio: Terestrički laserski skeneri

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

prEN 81-76 en

Safety rules for the construction and installation of lifts – Particular applications for passengers and goods passenger lifts – Part 76: Evacuation of persons with disabilities using lifts

Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 76. dio: Evakuacija osoba s invalidnošću i sa smanjenom pokretljivošću s pomoću dizala

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

prEN ISO 14065 en

Greenhouse gases – Environmental information – Requirements for bodies validating and verifying environmental information (ISO/DIS 14065:2020)

Staklenički plinovi – Informacije o okolišu – Zahtjevi za tijela koja provode validaciju i verifikaciju informacija o okolišu (ISO/DIS 14065:2020)

### **HZN/TO 502, Plinski uređaji**

FprEN 16129 en

Pressure regulators, automatic change-over devices, having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, associated safety devices and adaptors for butane, propane, and their mixtures

Regulatori tlaka, automatski preklopni uređaji s najvišim izlaznim tlakom do 4 bara i maksimalnim protokom od 150 kg/h te pripadni sigurnosni uređaji i prijelazni spojni dijelovi za butan, propan i njihove mješavine

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

prEN 10373 en

Determination of the physical and mechanical properties of steels using models

Određivanje fizikalnih i mehaničkih svojstava čelika pomoću računskih modela

prEN 10374 en

Welded fittings for the food and chemical industries – Tees, bends and reducers for welding

Zavarene spojnice za prehrambenu i kemijsku industriju – T-komadi, koljena i redukcije za zavarivanje

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

prEN 15009 en

Aerosol containers – Compartmented aerosol dispensers

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

prEN 1463-1 en

Road marking materials – Retroreflecting road studs – Part 1: Initial performance requirements

Materijali za oznake na kolniku – Retroreflektirajući markeri – 1. dio: Osnovna zahtijevana svojstva

prEN 1463-2 en

Road marking materials – Retroreflecting road studs – Part 2: Road test performance specifications

Materijali za oznake na kolniku – Reflektirajuće oznake na kolniku – 2. dio: Ispitivanja na kolniku, osnovni zahtjevi

### **HZN/TO 515, Žičare, uspinjače i vučnice**

prEN 15700 en

Safety for conveyor belts for winter sport or tourist use

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

prEN ISO 13143-1 en

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO 12813 – Part 1: Test suite structure and test purposes (ISO/DIS 13143-1:2019)

Elektronička naplata – Vrednovanje sukladnosti opreme u vozilu i opreme uz prometnicu s normom ISO 12813 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/DIS 13143-1:2019)

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

prEN 13749 en

Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames

Željeznički sustav – Osovinski sklopovi i okretna postolja – Metode definiranja zahtjeva za oblikovanje okvira okretnih postolja

prEN 16116-1 en

Railway applications – Design requirements for steps, handrails and associated access for staff – Part 1: Passenger vehicles, vans and locomotives

Željeznički sustav – Projektni zahtjevi za stepenice, rukohvate i prateće dodatke za osoblje – 1. dio: Putnička vozila, vozila za prtljagu i lokomotive

prEN 16843 en

Railway applications – Infrastructure – Mechanical requirements for joints in running rails

prEN 17168 en

Railway applications – Platform barrier systems

prEN 17460 en

Railway applications – Adhesive bonding of rail vehicles and parts

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

prEN ISO 11357-8 en

Plastics – Differential scanning calorimetry (DSC) – Part 8: Determination of thermal conductivity (ISO/DIS 11357-8:2019)

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

ISO 21010:2017 en

Cryogenic vessels – Gas/material compatibility

Kriogenične posude – Usklađenost plin/materijal

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

- prEN ISO 25178-2 en  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 2: Terms, definitions and surface texture parameters (ISO/DIS 25178-2:2019)  
Geometrijske specifikacije proizvoda (GSP) – Tekstura površine: Ploštinska – 2. dio: Nazivi, definicije i parametri teksture površine (ISO/DIS 25178-2:2019)

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

- EN ISO 16484-5:2017/prA1 en  
Building automation and control systems (BACS) – Part 5: Data communication protocol (ISO 16484-5:2017/DAmD 1:2019)  
Sustavi automatizacije i upravljanja u zgradama (BACS) – 5. dio: Podatkovni komunikacijski protokol (ISO 16484-5:2017/DAmD 1:2019)
- prEN ISO 16484-6 en  
Building automation and control systems (BACS) – Part 6: Data communication conformance testing (ISO/DIS 16484-6:2019)  
Upravljanje u zgradarstvu i upravljački sustavi (BACS) – 6. dio: Ispitivanje sukladnosti podatkovne komunikacije (ISO/DIS 16484-6:2019)
- EN 16798-5-1:2017/prA1 en  
Energy performance of buildings – Ventilation for buildings – Part 5-1: Calculation methods for energy requirements of ventilation and air conditioning systems (Modules M5-6, M5-8, M6-5, M6-8, M7-5, M7-8) – Method 1: Distribution and generation  
Energjska svojstva zgrada – Ventilacija u zgradama – Dio 5-1: Metode proračuna energijskih zahtjeva sustava ventilacije i klimatizacije (Moduli M5-6, M5-8, M6-5, M6-8, M7-5, M7-8) – Metoda 1: Distribucija i proizvodnja

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

- prEN ISO 1833-28 en  
Textiles – Quantitative chemical analysis – Part 28: Mixtures of chitosan with certain other fibres (method using diluted acetic acid) (ISO 1833-28:2019)

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

- prEN ISO 16964 en  
Gas cylinders – Flexible hoses assemblies – Specification and testing (ISO 16964:2019)  
Plinske boce – Sklopovi od savitljivih crijeva – Specifikacija i ispitivanje (ISO 16964:2019)

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

- prEN ISO 14501 en  
Milk and milk powder – Determination of aflatoxin M1 content – Clean-up by immunoaffinity chromatography and determination by high-performance liquid chromatography (ISO/DIS 14501:2019)  
Mlijeko i mlijeko u prahu – Određivanje sadržaja aflatoksina M1 – Pročišćavanje pomoću imunoafinitetne kromatografije i određivanje pomoću tekućinske kromatografije visoke učinkovitosti (ISO/DIS 14501:2019)
- prEN ISO 22579 en  
Infant formula and adult nutritionals – Determination of fructans – High performance anion exchange chromatography with pulsed amperometric detection (HPAEC-PAD) after enzymatic treatment (ISO/DIS 22579:2019)  
Hrana za dojenčad i nutritivno kompletna hrana za odrasle – Određivanje fruktana – Anionska izmjenjivačka kromatografija visoke djelotvornosti s pulsirajućom amperometrijskom detekcijom (HPAEC-PAD) nakon enzimske obrade (ISO/DIS 22579:2019)

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

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

### **HZN/TO 572, Kruta oporabljena goriva**

- prEN ISO 21644 en  
Solid recovered fuels – Methods for the determination of biomass content (ISO/DIS 21644:2019)  
Kruta oporabljena goriva – Metode određivanja sadržaja biomase (ISO/DIS 21644:2019)
- prEN ISO 21654 en  
Solid recovered fuels – Determination of calorific value (ISO/DIS 21654:2019)  
Kruta oporabljena goriva – Određivanje ogrijevne vrijednosti (ISO/DIS 21654:2019)
- prEN ISO 21656 en  
Solid recovered fuels – Determination of ash content (ISO/DIS 21656:2019)  
Kruta oporabljena goriva – Određivanje sadržaja pepela (ISO/DIS 21656:2019)
- prEN ISO 21660-3 en  
Solid recovered fuels – Determination of moisture content using the oven dry method – Part 3: Moisture in general analysis sample (ISO/DIS 21660-3:2019)  
Kruta oporabljena goriva – Određivanje sadržaja vlage metodom sušenja u pećnici – 3. dio: Vлага u općoj analizi uzorka (ISO/DIS 21660-3:2019)
- prEN ISO 21663 en  
Solid recovered fuels – Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method (ISO/DIS 21663:2019)
- prEN ISO 22167 en  
Solid recovered fuels – Determination of the content of volatile matter (ISO/DIS 22167:2019)  
Kruta oporabljena goriva – Određivanje sadržaja hlapljivih tvari (ISO/DIS 22167:2019)

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

- prEN ISO 10390 en  
Soil, sludge and treated biowaste – Determination of pH (ISO/DIS 10390:2020)  
Tlo, mulj i obrađeni biootpad – Određivanje pH (ISO/DIS 10390:2020)
- prEN ISO 11266 en  
Soil quality – Guidance on laboratory testing for biodegradation of organic chemicals in soil under aerobic conditions (ISO 11266:1994)  
Kvaliteta tla – Upute za laboratorijsko ispitivanje biodegradacije organskih spojeva u tlu pod aerobnim uvjetima (ISO 11266:1994)
- prEN ISO 14239 en  
Soil quality – Laboratory incubation systems for measuring the mineralization of organic chemicals in soil under aerobic conditions (ISO 14239:2017)  
Kvaliteta tla – Laboratorijski sustavi inkubacije za mjerenje mineralizacije organskih spojeva u tlu u aerobnim uvjetima (ISO 14239:2017)
- prEN ISO 15473 en  
Soil quality – Guidance on laboratory testing for biodegradation of organic chemicals in soil under anaerobic conditions (ISO 15473:2002)  
Kvaliteta tla – Upute za laboratorijsko ispitivanje biodegradacije organskih spojeva u tlu u anaerobnim uvjetima (ISO 15473:2002)
- prEN ISO 15685 en  
Soil quality – Determination of potential nitrification and inhibition of nitrification – Rapid test by ammonium oxidation (ISO 15685:2012)  
Kvaliteta tla – Određivanje potencijalne nitrifikacije i inhibicije nitrifikacije – Brzo ispitivanje s oksidacijom amonijaka (ISO 15685:2012)
- prEN ISO 17155 en  
Soil quality – Determination of abundance and activity of soil microflora using respiration curves (ISO 17155:2012)
- prEN ISO 17512-1 en  
Soil quality – Avoidance test for determining the quality of soils and effects of chemicals on behaviour – Part 1: Test with earthworms (*Eisenia fetida* and *Eisenia andrei*) (ISO 17512-1:2008)

- prEN ISO 17512-2 en  
Soil quality – Avoidance test for determining the quality of soils and effects of chemicals on behaviour – Part 2: Test with collembolans (*Folsomia candida*) (ISO 17512-2:2011)
- prEN ISO 18763 en  
Soil quality – Determination of the toxic effects of pollutants on germination and early growth of higher plants (ISO 18763:2016)
- prEN ISO 20130 en  
Soil quality – Measurement of enzyme activity patterns in soil samples using colorimetric substrates in micro-well plates (ISO 20130:2018)
- prEN ISO 21285 en  
Soil quality – Inhibition of reproduction of the soil mite (*Hypoaspis aculeifer*) by soil contaminants (ISO 21285:2019)
- prEN ISO 21286 en  
Soil quality – Identification of ecotoxicological test species by DNA barcoding (ISO 21286:2019)
- prEN ISO 21479 en  
Soil quality – Determination of the effects of pollutants on soil flora – Leaf fatty acid composition of plants to assess soil quality (ISO 21479:2019)
- prEN ISO 29200 en  
Soil quality – Assessment of genotoxic effects on higher plants – *Vicia faba* micronucleus test (ISO 29200:2013)

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

- prEN IEC 60652:2019 en  
Loading tests on overhead line structures (IEC 60652:201X)  
Ispitivanja konstrukcija nadzemnih vodova opterećenjem (IEC 60652:201X)

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

- prEN IEC 62056-3-1:2019 en  
Electricity metering data exchange – The DLMS/COSEM suite – Part 3-1: Use of local area networks on twisted pair with carrier signalling (IEC 62056-3-1:201X)  
Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 3-1: Uporaba upletenim paricama izvedenih lokalnih mreža sa nositeljem signala (IEC 62056-3-1:201X)

#### **HZN/TO E22, Energetska elektronika**

- prEN IEC 61800-5-3:2019 en  
Adjustable speed electrical power drive systems – Part 5-3: Safety requirements for encoders – Functional, Electrical and Environmental (IEC 61800-5-3:201X)  
Elektromotorni sustavi prilagodljive brzine – Dio 5-3: Zahtjevi za sigurnost za kodere – Funkcionalni, električni i zahtjevi za okoliš (IEC 61800-5-3:201X)

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

- prEN IEC 60305:2019 en  
Insulators for overhead lines with a nominal voltage above 1 000 V – Ceramic or glass insulator units for a.c. systems – Characteristics of insulator units of the cap and pin type (IEC 60305:201X)  
Izolatori za nadzemne vodove nazivnog napona iznad 1 000 V – Keramički ili stakleni izolatorski članci za izmjenične sustave – Karakteristike izolatorskih članaka kapastog tipa (IEC 60305:201X)
- prEN IEC 60433:2019 en  
Insulators for overhead lines with a nominal voltage above 1 000 V – Ceramic insulators for A.C. systems – Characteristics of insulator units of the long rod type (IEC 60433:201X)  
Izolatori za nadzemne vodove nazivnog napona iznad 1 000 V – Keramički izolatori za izmjenične sustave – Karakteristike izolatorskih članaka štapnog tipa (IEC 60433:201X)

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

- EN 60335-2-8:2015/prAA en  
Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances  
Kućanski i slični električni aparati – Sigurnost – Dio 2-8: Posebni zahtjevi za aparate za brijanje, šišanje i slične aparate

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

- prEN IEC 60584-3:2020 en  
Thermocouples – Part 3: Extension and compensating cables – Tolerances and identification system (IEC 60584-3:201X)  
Termoparovi – 3. dio: Produženje i kompenzacijski kabeli – Tolerancija i identifikacijski sustav (IEC 60584-3:201X)
- EN 61784-3-12:2010/A1:2019 en  
Industrial communication networks – Profiles – Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12 (IEC 61784-3-12:2010/am1:2019)  
Industrijske komunikacijske mreže – Profili – Dio 3-12: Industrijske sabirnice (fieldbus) za funkcijsku sigurnost – Dodatne specifikacije za CPF (IEC 61784-3-12:2010/am1:2019)

#### **HZN/TO E72, Naprave za automatsko upravljanje u kućanstvu**

- EN 60730-2-5:2015/prA2:2019 {frag 1} en  
Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2013/am2:201X {frag 1})  
Električne naprave za automatsko upravljanje – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2013/am2:201X {frag 1})
- EN 60730-2-5:2015/prA2:2019 {frag 2} en  
Automatic electrical controls – Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2013/am2:201X {frag 2})  
Električne naprave za automatsko upravljanje – Dio 2-5: Posebni zahtjevi za električne automatske upravljačke sustave plamenika (IEC 60730-2-5:2013/am2:201X {frag 2})

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

- prEN IEC 61318:2019 en  
Live working – Conformity assessment applicable to tools, devices and equipment (IEC 61318:201X)  
Rad pod naponom – Ocjena sukladnosti za alate, uređaje i opremu (IEC 61318:201X)

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

- prEN 50527-2-3 en  
Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices – Part 2-3: Specific assessment for workers with implantable neurostimulators  
Postupak procjene izloženosti elektromagnetskim poljima radnika koji nose aktivne implantirane medicinske uređaje – Dio 2-3: Specifična procjena za radnike sa implantiranim neurostimulatorima

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

- prEN IEC 60263:2019 en  
Scales and sizes for plotting frequency characteristics and polar diagrams (IEC 60263:201X)  
Razmjeri i veličine za crtanje frekvencijskih karakteristika i polarnih dijagrama (IEC 60263:201X)

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

- EN 50174-1:2018/prA1 en  
Information technology – Cabling installation – Part 1: Installation specification and quality assurance  
Informacijska tehnologija – Instalacija kabliranja – 1. dio: Specifikacija instalacije i osiguranje kvalitete



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

- EN 1081:2018/prA1 en  
Resilient, laminate and modular multilayer floor coverings  
– Determination of the electrical resistance  
Elastične, laminatne i modularne višeslojne podne obloge  
– Određivanje električne otpornosti

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

- prEN ISO 3657 en  
Animal and vegetable fats and oils – Determination of saponification value (ISO/DIS 3657:2019)  
Životinjske i biljne masti i ulja – Određivanje broja osapunjenja (ISO/DIS 3657:2019)
- prEN 14105 en  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME)  
– Determination of free and total glycerol and mono-, di-, triglyceride contents  
Derivati masti i ulja – Metilni esteri masnih kiselina  
– Određivanje sadržaja slobodnog i ukupnog glicerola sadržaja mono-, di- i triglicerida
- prEN 14112 en  
Fat and oil derivatives – Fatty Acid Methyl Esters (FAME)  
– Determination of oxidation stability (accelerated oxidation test)  
Derivati masti i ulja – Metilni esteri masnih kiselina  
– Određivanje oksidativne stabilnosti (ubrzani test oksidacije)
- prEN ISO 17178 en  
Adhesives – Adhesives for bonding parquet to subfloor – Test methods and minimum requirements (ISO 17178:2013)  
Adhezivi – Ljepila za lijepljenje parketa na podlogu – Metode ispitivanja i minimalni zahtjevi (ISO 17178:2013)
- prEN ISO/ASTM 52915 en  
Specification for additive manufacturing file format (AMF) Version 1.2 (ISO/ASTM FDIS 52915:2019)  
Specifikacija formata datoteke za proizvodnju aditiva (AMF), verzija 1.2 (ISO/ASTM FDIS 52915:2019)

## **HZN/TU M1, Metalni materijali 1**

- prEN ISO 6501 en  
Ferronickel – Specification and delivery requirements (ISO/DIS 6501:2019)  
Feronikal – Specifikacija i zahtjevi isporuke (ISO/DIS 6501:2019)

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

- prEN ISO 23940 en  
Dentistry – Excavators (ISO/DIS 23940:2019)
- prEN ISO 81060-3 en  
Non-invasive sphygmomanometers – Part 3: Clinical investigation of continuous automated measurement type (ISO/DIS 81060-3:2019)

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

- EN 2997-011:2019 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire resistant or non fire resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 011: Dummy receptacle – Product standard  
Zrakoplovstvo – Spojnice, električne, kružne, opremljene s navojnim prstenom, otporne na vatru ili neotporne na vatru, radne temperature -65 °C do 175 °C neprekidno, 200 °C neprekidno, 260 °C vršno – 011. dio: Prazne utičnice – Norma za proizvod
- EN 3155-019:2019 en  
Aerospace series – Electrical contacts used in elements of connection – Part 019: Contacts, electrical, female, type A, crimp, class S – Product standard  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 019: Kontakti, električni, ženski, tip A, za krimpanje, klasa S – Norma za proizvod
- EN 4604-007:2019 en  
Aerospace series – Cable, electrical, for signal transmission – Part 007: Cable, coaxial, 50 ohms, 200 °C, type WN – Product standard  
Zrakoplovstvo – Kabel, električni, za prijenos signala – Dio 007: Kabel, koaksijalni 50 Ω, 200 °C, tip WN – Norma za proizvod

- EN 4681-001:2019 en  
Aerospace series – Cables, electric, general purpose, with conductors in aluminium or copper-clad aluminium – Part 001: Technical specification  
Zrakoplovstvo – Kabeli, električni, opće namjene, s aluminijским vodičem ili aluminijским vodičem presvučenim bakrom – Dio 001: Tehnička specifikacija

- EN 4840-102:2019 en  
Aerospace series – Heat shrinkable moulded shapes – Part 102: Elastomeric, semi-rigid, temperature range -75 to 150 °C – Product Standard

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

- prEN IEC 60068-2-21:2019 en  
Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices (IEC 60068-2-21:201X)
- prEN IEC 60603-7:2020 en  
Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors (IEC 60603-7:201X)
- prEN IEC 61007:2019 en  
Transformers and inductors for use in electronic and telecommunication equipment – Measuring methods and test procedures (IEC 61007:201X)
- prEN IEC 61290-1-1:2019 en  
Optical amplifiers – Test methods – Part 1-1: Power and gain parameters – Optical spectrum analyzer method (IEC 61290-1-1:201X)
- prEN IEC 61300-2-56:2019 en  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedure – Part 2-56: Tests – Wind resistance of mounted housing (IEC 61300-2-56:201X)
- EN IEC 61753-1:2018/prA1:2019 en  
Fibre optic interconnecting devices and passive components – Performance standard – Part 1: General and guidance (IEC 61753-1:2018/am1:201X)  
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Izvedbene norme – 1. dio: Općenito i upute (IEC 61753-1:2018/am1:201X)
- prEN IEC 61753-071-2:2019 en  
Fibre optic interconnecting devices and passive components – Performance standard – Part 071-2: Non-connectorized single-mode fibre optic 1x2 and 2x2 spatial switches for category C – Controlled environments (IEC 61753-071-2:201X)
- prEN IEC 62149-3:2019 en  
Fibre optic active components and devices – Performance standards – Part 3: Modulator-integrated laser diode transmitters for 40-Gbit/s fibre optic transmission systems (IEC 62149-3:201X)
- prEN IEC 62149-5:2019 en  
Fibre optic active components and devices – Performance standards – Part 5: ATM-PON transceivers with LD driver and CDR ICs (IEC 62149-5:201X)
- prEN IEC 62496-4-214:2020 en  
Optical circuit boards – Part 4-214: Interface standards – Terminated waveguide OCB assembly using a single-row thirty-two-channel PMT connector (IEC 62496-4-214:201X)
- prEN IEC 62614-1:2019 en  
Fibre optics – Multimode Launch condition – Part 1: Launch condition requirements for measuring multimode attenuation (IEC 62614-1:201X)
- prEN IEC 63041-3:2020 en  
Piezoelectric sensors – Part 3: Physical sensors (IEC 63041-3:201X)

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

- EN IEC 62281:2019/prA1:2020 en  
Amendment 1: Safety of primary and secondary lithium cells and batteries during transport (IEC 62281:2019/am1:201X)  
Amandman: Sigurnost primarnih i sekundarnih litijevih članaka i baterija tijekom transporta (IEC 62281:2019/am1:201X)

prEN IEC 63193:2019 en  
Lead-acid batteries for propulsion and operation of lightweight vehicles and equipment – General requirements and methods of test (IEC 63193:201X)  
Olovni akumulatori za pogon i rad lakih vozila i opreme – Opći zahtjevi i metode ispitivanja (IEC 63193:201X)

HRN ISO 3984:2004 en  
Cestovna vozila – Metoda ispitivanja stražnjeg sudara pomičnom zaprekom (ISO 3984:2004)  
Road vehicles – Rear moving barrier impact test procedure (ISO 3984:2004)  
- bez zamjene

## 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 15655:2009 en  
Duktilne željezne cijevi, spojni dijelovi i pribor – Unutrašnja poliuretanska obloga za cijevi i spojne dijelove – Zahtjevi i metode ispitivanja (EN 15655:2009)  
Ductile iron pipes, fittings and accessories – Internal polyurethane lining for pipes and fittings – Requirements and test methods (EN 15655:2009)  
- zamijenjena s: HRN EN 15655-1:2020

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

HRN EN 54-3:2014 en  
Sustavi za otkrivanje i dojavu požara – 3. dio: Uređaji za uzbuđivanje – Sirene (EN 54-3:2014)  
Fire detection and fire alarm systems – Part 3: Fire alarm devices – Sounders (EN 54-3:2014)  
- zamijenjena s: HRN EN 54-3:2020

HRN EN 54-13:2017 en  
Sustavi za otkrivanje i dojavu požara – 13. dio: Ocjenjivanje kompatibilnosti i spojivosti dijelova sustava (EN 54-13:2017)  
Fire detection and fire alarm systems – Part 13: Compatibility and connectability assessment of system components (EN 54-13:2017)  
- zamijenjena s: HRN EN 54-13:2020

HRN EN 12845:2015 en  
Stabilni protupožarni sustavi – Sustavi automatskih sprinklera – Projektiranje, ugradnja i održavanje (EN 12845:2015)  
Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance (EN 12845:2015)  
- zamijenjena s: HRN EN 12845:2020

HRN EN 12845:2015/lsp.1:2016 en  
Stabilni protupožarni sustavi – Sustavi automatskih sprinklera – Projektiranje, ugradnja i održavanje (EN 12845:2015/AC:2016)  
Fixed firefighting systems – Automatic sprinkler systems – Design, installation and maintenance (EN 12845:2015/AC:2016)  
- zamijenjena s: HRN EN 12845:2020

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

HRI CR 1955:2008 en  
Prijedlozi za kočenje električnih vozila (CR 1955:1995)  
Proposals for the braking of electrical vehicles (CR 1955:1995)  
- bez zamjene

HRN ISO 2698:2014 en  
Dizelski motori – Ubrizgači goriva pričvršćeni stezaljkom, tipovi 7 i 28 (ISO 2698:2013)  
Diesel engines – Clamp-mounted fuel injectors, types 7 and 28 (ISO 2698:2013)  
- zamijenjena s: HRN ISO 2698:2020

HRN ISO 3888-1:2004 en  
Osobni automobili – Ispitna staza za manevar nagle promjene pravca gibanja – 1. dio: Dvostruka promjena pravca gibanja (ISO 3888-1:1999)  
Passenger cars – Test track for a severe lane-change manoeuvre – Part 1: Double lane-change (ISO 3888-1:1999)  
- zamijenjena s: HRN ISO 3888-1:2020

HRN ISO 4141-1:2008 en  
Cestovna vozila – Višežilni spojni kabeli – 1. dio: Metode ispitivanja i zahtjevi za višežilne obložene kabele s osnovnim radnim značajkama (ISO 4141-1:2005)  
Road vehicles – Multi-core connecting cables – Part 1: Test methods and requirements for basic performance sheathed cables (ISO 4141-1:2005)  
- zamijenjena s: HRN ISO 4141-1:2020

HRN ISO 4141-2:2008 en  
Cestovna vozila – Višežilni spojni kabeli – 2. dio: Metode ispitivanja i zahtjevi za višežilne obložene kabele s visokozahvatljivim radnim značajkama (ISO 4141-2:2006)  
Road vehicles – Multi-core connecting cables – Part 2: Test methods and requirements for high performance sheathed cables (ISO 4141-2:2006)  
- zamijenjena s: HRN ISO 4141-2:2020

HRN ISO 4141-3:2008 en  
Cestovna vozila – Višežilni spojni kabeli – 3. dio: Izrada, mjere i označavanje neoklopljenih obloženih niskonaponskih kabela (ISO 4141-3:2006)  
Road vehicles – Multi-core connecting cables – Part 3: Construction, dimensions and marking of unscreened sheathed low-voltage cables (ISO 4141-3:2006)  
- zamijenjena s: HRN ISO 4141-3:2020

HRN ISO 4223-1:2005 en  
Definicije određenih naziva koji se upotrebljavaju u proizvodnji guma – 1. dio: Pneumatske gume (ISO 4223-1:2002)  
Definitions of some terms used in the tyre industry – Part 1: Pneumatic tyres (ISO 4223-1:2002)  
- zamijenjena s: HRN ISO 4223-1:2020

HRN ISO 4223-1:2005/A1:2015 en  
Definicije određenih naziva koji se upotrebljavaju u proizvodnji guma – 1. dio: Pneumatske gume (ISO 4223-1:2002/Amd 1:2011)  
Definitions of some terms used in the tyre industry – Part 1: Pneumatic tyres (ISO 4223-1:2002/Amd 1:2011)  
- zamijenjena s: HRN ISO 4223-1:2020

HRN ISO 4250-1:2015 en  
Gume i naplatci za strojeve za zemljane radove – 1. dio: Oznaka i dimenzije guma (ISO 4250-1:2014)  
Earth-mover tyres and rims – Part 1: Tyre designation and dimensions (ISO 4250-1:2014)  
- zamijenjena s: HRN ISO 4250-1:2020

HRN ISO 4251-2:2018 en  
Gume (nizovi s oznakom broja slojeva) i naplatci za poljoprivredne traktore i strojeve – 2. dio: Nazivne nosivosti guma (ISO 4251-2:2017)  
Tyres (ply rating marked series) and rims for agricultural tractors and machines – Part 2: Tyre load ratings (ISO 4251-2:2017)  
- zamijenjena s: HRN ISO 4251-2:2020

HRN ISO 4251-4:2012 en  
Gume (nizovi s oznakom PR ("ply rating")) i naplatci za poljoprivredne traktore i strojeve – 4. dio: Razredba i nomenklatura guma (ISO 4251-4:2010)  
Tyres (ply rating marked series) and rims for agricultural tractors and machines – Part 4: Tyre classification and nomenclature (ISO 4251-4:2010)  
- bez zamjene

HRN ISO 4251-5:2005 en  
Gume (nizovi s oznakom PR ("ply rating")) i naplatci za poljoprivredne traktore i strojeve – 5. dio: Gume za skidere (ISO 4251-5:1992+Amd 1:1998)  
Tyres (ply rating marked series) and rims for agricultural tractors and machines – Part 5: Log skidder tyres (ISO 4251-5:1992+Amd 1:1998)  
- zamijenjena s: HRN ISO 18807:2020

HRN ISO 6469-1:2012 en  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 1. dio: Sustav ponovljivog pohranjivanja energije u vozilu (RESS) (ISO 6469-1:2009)  
Electrically propelled road vehicles – Safety specifications – Part 1: On-board rechargeable energy storage system (RESS) (ISO 6469-1:2009)  
- zamijenjena s: HRN ISO 6469-1:2020

- HRN ISO 6469-2:2012 en  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 2. dio: Sredstva za sigurnost rada vozila i zaštita od kvarova (ISO 6469-2:2009)  
Electrically propelled road vehicles – Safety specifications – Part 2: Vehicle operational safety means and protection against failures (ISO 6469-2:2009)  
- zamijenjena s: HRN ISO 6469-2:2020
- HRN ISO 6469-3:2014 en  
Cestovna vozila na električni pogon – Sigurnosne specifikacije – 3. dio: Zaštita osoba od udara električne struje (ISO 6469-3:2011)  
Electrically propelled road vehicles – Safety specifications – Part 3: Protection of persons against electric shock (ISO 6469-3:2011)  
- zamijenjena s: HRN ISO 6469-3:2020
- HRN ISO 6546:2012 en  
Cestovna vozila – Prikupljanje podataka o nezgodi za vrednovanje značajka držanja osoba u vozilu (ISO 6546:2006)  
Road vehicles – Collection of accident data for evaluation of occupant restraint performance (ISO 6546:2006)  
- zamijenjena s: HRN ISO 6546:2020
- HRN ISO 6621-1:2012 en  
Motori s unutarnjim izgaranjem – Klipni prstenovi – 1. dio: Terminološki rječnik (ISO 6621-1:2007)  
Internal combustion engines – Piston rings – Part 1: Vocabulary (ISO 6621-1:2007)  
- bez zamjene
- HRN ISO 7612:2013 en  
Dizelski motori – Redne pumpe za ubrizgavanje goriva ugrađene na ravnu podlogu i visokotlačne dobavne pumpe za sustave ubrizgavanja goriva sa zajedničkim spremnikom (common rail) – Ugrađbene dimenzije (ISO 7612:2009)  
Diesel engines – Base-mounted in-line fuel injection pumps and high-pressure supply pumps for common rail fuel injection systems – Mounting dimensions (ISO 7612:2009)  
- zamijenjena s: HRN ISO 7612:2020
- HRN ISO 7638-1:2003 en  
Cestovna vozila – Spojnici za električno spajanje vučnih i vučenih vozila – 1. dio: Spojnici za sustave kočenja i podvozja vozila s nazivnim naponom napajanja 24 V (ISO 7638-1:2003)  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 1: Connectors for braking systems and running gear of vehicles with 24 V nominal supply voltage (ISO 7638-1:2003)  
- zamijenjena s: HRN ISO 7612:2020
- HRN ISO 7638-2:2013 en  
Cestovna vozila – Spojnici za električno spajanje vučnih i vučenih vozila – 2. dio: Spojnici za kočne sustave i podvozja vozila s nazivnim naponom napajanja od 12 V (ISO 7638-2:2003)  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 2: Connectors for braking systems and running gear of vehicles with 12 V nominal supply voltage (ISO 7638-2:2003)  
- zamijenjena s: HRN ISO 7638-2:2020
- HRN ISO 7867-1:2008 en  
Gume i naplatci (milimetarski nizovi) za poljoprivredne traktore i strojeve – 1. dio: Oznaka, dimenzije, označavanje guma i usklađivanje guma/naplatak (ISO 7867-1:2005)  
Tyres and rims (metric series) for agricultural tractors and machines – Part 1: Tyre designation, dimensions and marking, and tyre/rim coordination (ISO 7867-1:2005)  
- zamijenjena s: HRN ISO 7638-2:2020
- HRN ISO 7867-2:2008 en  
Gume i naplatci (milimetarski nizovi) za poljoprivredne traktore i strojeve – 2. dio: Uporabne značajke i nazivne nosivosti (ISO 7867-2:2005)  
Tyres and rims (metric series) for agricultural tractors and machines – Part 2: Service description and load ratings (ISO 7867-2:2005)  
- zamijenjena s: HRN ISO 7867-2:2020
- HRN ISO 7867-2:2008/A1:2014 en  
Gume i naplatci (milimetarski nizovi) za poljoprivredne traktore i strojeve – 2. dio: Uporabne značajke i nazivne nosivosti – Amandman (ISO 7867-2:2005/Amd 1:2010)  
Tyres and rims (metric series) for agricultural tractors and machines – Part 2: Service description and load ratings – Amendment (ISO 7867-2:2005/Amd 1:2010)  
- zamijenjena s: HRN ISO 7867-2:2020
- HRN ISO 8664:2008 en  
Gume za poljoprivredne traktore i strojeve – Radijalne gume za pogonske kotače označene kodnom oznakom i uporabnim značajkama (ISO 8664:2005)  
Tyres for agricultural tractors and machines – Code-designated and service-description marked radial drive-wheel tyres (ISO 8664:2005)  
- zamijenjena s: HRN ISO 8664:2020
- HRN ISO 8664:2008/A1:2013 en  
Gume za poljoprivredne traktore i strojeve – Radijalne gume za pogonske kotače označene kodnom oznakom i uporabnim značajkama (ISO 8664:2005/Amd 1:2010)  
Tyres for agricultural tractors and machines – Code-designated and service-description marked radial drive-wheel tyres (ISO 8664:2005/Amd 1:2010)  
- zamijenjena s: HRN ISO 8664:2020
- HRI ISO/TR 8713:2016 hr,en  
Cestovna vozila na električni pogon – Terminološki rječnik (ISO/TR 8713:2012)  
Electrically propelled road vehicles – Vocabulary (ISO/TR 8713:2012)  
- zamijenjena s: HRI ISO/TR 8713:2020
- HRN ISO 9816:2013 en  
Osobni automobili – Reakcija vozila u zaokretanju pri naglom otpuštanju papučice snage – Metoda ispitivanja otvorenim petljom (ISO 9816:2006)  
Passenger cars – Power-off reaction of a vehicle in a turn – Open-loop test method (ISO 9816:2006)  
- zamijenjena s: HRI ISO/TR 8713:2020
- HRN ISO 10499-1:2005 en  
Gume i naplatci za industrijska vozila – Gumene pune gume (milimetarski nizovi) za naplatke pneumatskih guma – 1. dio: Oznaka, dimenzije i označavanje (ISO 10499-1:1991+Cor 1:1997)  
Industrial tyres and rims – Rubber solid tyres (metric series) for pneumatic tyre rims – Part 1: Designation, dimensions and marking (ISO 10499-1:1991+Cor 1:1997)  
- zamijenjena s: HRN ISO 10499-1:2020
- HRN ISO 11452-2:2008 en  
Cestovna vozila – Metode ispitivanja sastavnica na električne smetnje od uskopojasnoga zračenja elektromagnetske energije – 2. dio: Kavez s apsorberima (ISO 11452-2:2004)  
Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure (ISO 11452-2:2004)  
- zamijenjena s: HRN ISO 10499-1:2020
- HRN ISO 11795:2005 en  
Gume za pogonske kotače poljoprivrednih traktora – Metoda mjerenja opsega kotrljanja gume (ISO 11795:1997)  
Agricultural tractor drive wheel tyres – Method of measuring tyre rolling circumference (ISO 11795:1997)  
- zamijenjena s: HRN ISO 11795:2020
- HRN ISO 11795:2005/A1:2013 en  
Gume za pogonske kotače poljoprivrednih traktora – Metoda mjerenja opsega kotrljanja gume (ISO 11795:1997/Amd 1:2010)  
Agricultural tractor drive wheel tyres – Method of measuring tyre rolling circumference (ISO 11795:1997/Amd 1:2010)  
- zamijenjena s: HRN ISO 11795:2020
- HRN ISO 11992-1:2003 en  
Cestovna vozila – Razmjena digitalnih podataka na električnim spojevima između vučnih i vučenih vozila – 1. dio: Fizički sloj i sloj veze između podataka (ISO 11992-1:2003)  
Road vehicles – Interchange of digital information on electrical connections between towing and towed vehicles – Part 1: Physical and data link layers (ISO 11992-1:2003)  
- zamijenjena s: HRN ISO 11992-1:2020
- HRN ISO 12214:2014 en  
Cestovna vozila – Stereotipni pravci gibanja za ručne upravljačke naprave u automobilu (ISO 12214:2010)  
Road vehicles – Direction-of-motion stereotypes for automotive hand controls (ISO 12214:2010)  
- zamijenjena s: HRN ISO 12214:2020
- HRN ISO 13325:2005 en  
Gume – Metode mjerenja emisije buke kotrljanja gume po cesti s isključenim motorom vozila (ISO 13325:2003)  
Tyres – Coast-by methods for measurement of tyre-to-road sound emission (ISO 13325:2003)  
- zamijenjena s: HRN ISO 13325:2020

HRS ISO/TS 13499:2015 en  
Cestovna vozila – Oblik razmjene multimedijских podataka za ispitivanja sudarom (ISO/TS 13499:2014)  
Road vehicles – Multimedia data exchange format for impact tests (ISO/TS 13499:2014)  
- zamijenjena s: HRS ISO/TS 13499:2020

HRN ISO 15037-1:2014 en  
Cestovna vozila – Metode ispitivanja dinamike vozila – 1. dio: Opći uvjeti za osobne automobile (ISO 15037-1:2006)  
Road vehicles – Vehicle dynamics test methods – Part 1: General conditions for passenger cars (ISO 15037-1:2006)  
- zamijenjena s: HRN ISO 15037-1:2020

HRN ISO 16845-2:2017 en  
Cestovna vozila – Postupak provjere usklađenosti regulatora mrežnog područja (CAN) – 2. dio: Jedinica za pristup mediju velike brzine sa selektivnom funkcijom aktiviranja (ISO 16845-2:2014)  
Road vehicles – Controller area network (CAN) conformance test plan – Part 2: High-speed medium access unit with selective wake-up functionality (ISO 16845-2:2014)  
- zamijenjena s: HRN ISO 16845-2:2020

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

HRN EN 707:2010 en  
Poljoprivredna mehanizacija – Spremnici za gnojnicu – Sigurnost (EN 707:1999+A1:2009)  
Agricultural machinery – Slurry tankers – Safety (EN 707:1999+A1:2009)  
- zamijenjena s: HRN EN 707:2020

HRN EN 12733:2010 en  
Poljoprivredna i šumarska mehanizacija – Ručno upravljane motorne kosilice – Sigurnost (EN 12733:2001+A1:2009)  
Agricultural and forestry machinery – Pedestrian controlled motor mowers – Safety (EN 12733:2001+A1:2009)  
- zamijenjena s: HRN EN 12733:2020

HRN EN 13684:2010 en  
Oprema za vrtove i parkove – Ručno upravljani prozračivači za travnjake – Sigurnost (EN 13684:2004+A3:2009)  
Garden equipment – Pedestrian controlled lawn aerators and scarifiers – Safety (EN 13684:2004+A3:2009)  
- zamijenjena s: HRN EN 13684:2020

HRN EN 14018:2010 en  
Poljoprivredna i šumarska mehanizacija – Sijačice – Sigurnost (EN 14018:2005+A1:2009)  
Agricultural and forestry machinery – Seed drills – Safety (EN 14018:2005+A1:2009)  
- zamijenjena s: HRN EN ISO 4254-9:2020

HRN EN 16590-1:2014 en  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 1. dio: Opća načela za projektiranje i razvoj (ISO 25119-1:2010, MOD; EN 16590-1:2014)  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 1: General principles for design and development (ISO 25119-1:2010, MOD; EN 16590-1:2014)  
- zamijenjena s: HRN EN ISO 25119-1:2020

HRN EN 16590-3:2014 en  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 3. dio: Razvoj nizova, hardvera i softvera (ISO 25119-3:2010, MOD; EN 16590-3:2014)  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 3: Series development, hardware and software (ISO 25119-3:2010, MOD; EN 16590-3:2014)  
- zamijenjena s: HRN EN ISO 25119-3:2020

HRN EN 16590-4:2014 en  
Traktori i mehanizacija za poljoprivredu i šumarstvo – Sigurnosni dijelovi sustava za nadzor – 4. dio: Proizvodnja, izvedba, modifikacija i postupci za podršku (ISO 25119-4:2010, MOD; EN 16590-4:2014)  
Tractors and machinery for agriculture and forestry – Safety-related parts of control systems – Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2010, MOD; EN 16590-4:2014)  
- zamijenjena s: HRN EN ISO 25119-4:2020

## **HZN/TO 82, Rudarstvo**

HRN EN 1889-1:2011 en  
Strojevi za podzemne rudnike – Pokretni strojevi u podzemnim rudnicima – Sigurnost – 1. dio: Vozila na gumenim kotačima (EN 1889-1:2011)  
Machines for underground mines – Mobile machines working underground – Safety – Part 1: Rubber tyred vehicles (EN 1889-1:2011)  
- zamijenjena s: HRN EN ISO 19296:2020

## **HZN/TO 108, Mehaničke vibracije i udari**

HRN EN ISO 28927-1:2010 en  
Ručni prijenosni strojni alati – Ispitne metode za procjenu emisije vibracija – 1. dio: Kutne i vertikalne brusilice (ISO 28927-1:2009; EN ISO 28927-1:2009)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders (ISO 28927-1:2009; EN ISO 28927-1:2009)  
- zamijenjena s: HRN EN ISO 28927-1:2020

HRN EN ISO 28927-1:2010/A1:2017 en  
Ručni prijenosni strojni alati – Ispitne metode za procjenu emisije vibracija – 1. dio: Kutne i vertikalne brusilice – Amandman 1: Konusne žičane četke (ISO 28927-1:2009/Amd 1:2017; EN ISO 28927-1:2009/A1:2017)  
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders – Amendment 1: Cupped wire brushes (ISO 28927-1:2009/Amd 1:2017; EN ISO 28927-1:2009/A1:2017)  
- zamijenjena s: HRN EN ISO 28927-1:2020

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

HRN EN ISO 13666:2013 en  
Oftalmološka optika – Leće za naočale – Terminološki rječnik (ISO 13666:2012; EN ISO 13666:2012)  
Ophthalmic optics – Spectacle lenses – Vocabulary (ISO 13666:2012; EN ISO 13666:2012)  
- zamijenjena s: HRN EN ISO 13666:2020

HRN EN ISO 15902:2008 en,fr  
Optika i optički instrumenti – Difraktivna optika – Terminološki rječnik (ISO 15902:2004; EN ISO 15902:2005)  
Optics and optical instruments – Diffractive optics – Vocabulary (ISO 15902:2004; EN ISO 15902:2005)  
- zamijenjena s: HRN EN ISO 15902:2020

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

HRN EN 13373:2003 en  
Ispitne metode prirodnog kamena – Određivanje geometrijskog oblika kamenih elemenata (EN 13373:2003)  
Natural stone test methods – Determination of geometric characteristics on units (EN 13373:2003)  
- zamijenjena s: HRN EN 13373:2020

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

HRN EN ISO 19107:2005 en  
Geoinformacije – Prostorna shema (ISO 19107:2003; EN ISO 19107:2005)  
Geographic information – Spatial schema (ISO 19107:2003; EN ISO 19107:2005)  
- zamijenjena s: HRN EN ISO 19107:2020

HRN EN ISO 19116:2007 en  
Geoinformacije – Usluge pozicioniranja (ISO 19116:2004; EN ISO 19116:2006)  
Geographic information – Positioning services (ISO 19116:2004; EN ISO 19116:2006)  
- zamijenjena s: HRN EN ISO 19116:2020

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

HRN EN 1534:2010 en  
Drveni podovi – Određivanje otpornosti na zasijecanje – Metode ispitivanja (EN 1534:2010)  
Wood flooring – Determination of resistance to indentation – Test method (EN 1534:2010)  
- zamijenjena s: HRN EN 1534:2020

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

HRN EN 10216-2:2014 en

Bešavne čelične cijevi za tlačne namjene – Tehnički uvjeti isporuke – 2. dio: Cijevi od nelegiranih i legiranih čelika s utvrđenim svojstvima pri povišenim temperaturama (EN 10216-2:2013)

Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties (EN 10216-2:2013)

- zamijenjena s: HRN EN 10216-2:2020

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

HRN EN ISO 6974-3:2008 en

Prirodni plin – Određivanje sastava s određenom nesigurnošću plinskom kromatografijom – 3. dio: Određivanje vodika, helija, kisika, dušika, ugljikovog dioksida i ugljikovodika do C8 uporabom dvije pakirane kolone (ISO 6974-3:2000; EN ISO 6974-3:2001)

Natural gas – Determination of composition with defined uncertainty by gas chromatography – Part 3: Determination of hydrogen, helium, oxygen, nitrogen, carbon dioxide and hydrocarbons up to C8 using two packed columns (ISO 6974-3:2000; EN ISO 6974-3:2001)

- zamijenjena s: HRN EN ISO 6974-3:2020

HRN EN ISO 15138:2008 en

Industrija nafte i prirodnog plina – Odobalna proizvodna postrojenja – Grijanje, ventilacija i klimatizacija (ISO 15138:2007; EN ISO 15138:2007)

Petroleum and natural gas industries – Offshore production installations – Heating, ventilation and air-conditioning (ISO 15138:2007; EN ISO 15138:2007)

- zamijenjena s: HRN EN ISO 15138:2020

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

HRN EN 1434-5:2015 en

Mjerila toplinske energije – 5. dio: Ispitivanja prilikom prvog ovjeravanja (EN 1434-5:2015)

Heat meters – Part 5: Initial verification tests (EN 1434-5:2015)

- zamijenjena s: HRN EN 1434-5:2020

HRN EN 1434-6:2015 en

Mjerila toplinske energije – 6. dio: Ugradnja, preuzimanje, nadzor u radu i održavanje mjerila toplinske energije (EN 1434-6:2015)

Heat meters – Part 6: Installation, commissioning, operational monitoring and maintenance (EN 1434-6:2015)

- zamijenjena s: HRN EN 1434-6:2020

HRN EN 29104:2005 en

Mjerenje protoka fluida u zatvorenim cjevovodnim sustavima – Postupci za procjenu radnih značajka elektromagnetskih mjerila protoka tekućina (ISO 9104:1991; EN 29104:1993)

Measurement of fluid flow in closed conduits – Methods of evaluating the performance of electromagnetic flow-meters for liquids (ISO 9104:1991; EN 29104:1993)

- zamijenjena s: HRN EN ISO 20456:2019

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

HRN EN 234:2008 en

Zidni pokrovi u rolama – Specifikacije za zidne pokrove za naknadnu dekoraciju (EN 234:1989+A1:1996)

Wallcoverings in roll form – Specifications for wallcoverings for subsequent decoration (EN 234:1989+A1:1996)

- zamijenjena s: HRN EN 234:2020

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

HRN EN ISO 12813:2016 en

Elektronička naplata – Komunikacija provjere sukladnosti za autonomne sustave (ISO 12813:2015; EN ISO 12813:2015)

Electronic fee collection – Compliance check communication for autonomous systems (ISO 12813:2015; EN ISO 12813:2015)

- zamijenjena s: HRN EN ISO 12813:2020

HRN EN ISO 12813:2016/A1:2017 en

Elektronička naplata – Komunikacija provjere sukladnosti za autonomne sustave (ISO 12813:2015/Amd 1:2017; EN ISO 12813:2015/A1:2017)

Electronic fee collection – Compliance check communication for autonomous systems (ISO 12813:2015/Amd 1:2017; EN ISO 12813:2015/A1:2017)

- zamijenjena s: HRN EN ISO 12813:2020

HRS CEN/TS 16794-1:2019 en

Javni prijevoz – Komunikacija između beskontaktnih čitača i medija za plaćanje vozničkih karata – 1. dio: Zahtjevi s obzirom na provedbu norme ISO/IEC 14443 (CEN/TS 16794-1:2017)

Public transport – Communication between contactless readers and fare media – Part 1: Implementation requirements for ISO/IEC 14443 (CEN/TS 16794-1:2017)

- zamijenjena s: HRS CEN/TS 16794-1:2020

HRS CEN/TS 16794-2:2019 en

Javni prijevoz – Komunikacija između beskontaktnih čitača i medija za plaćanje vozničkih karata – 2. dio: Plan ispitivanja za normu ISO/IEC 14443 (CEN/TS 16794-2:2017)

Public transport – Communication between contactless readers and fare media – Part 2: Test plan for ISO/IEC 14443 (CEN/TS 16794-2:2017)

- zamijenjena s: HRS CEN/TS 16794-2:2020

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

HRN EN 16452:2015 en

Željeznički sustav – Kočenje – Kočni umeci (EN 16452:2015)

Railway applications – Braking – Brake blocks (EN 16452:2015)

- zamijenjena s: HRN EN 16452:2020

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

HRN EN ISO 180:2004 en

Plastika – Određivanje savojne žilavosti prema Izodu (ISO 180:2000; EN ISO 180:2000)

Plastics – Determination of Izod impact strength (ISO 180:2000; EN ISO 180:2000)

- zamijenjena s: HRN EN ISO 180:2020

HRN EN ISO 180:2004/A1:2008 en

Plastika – Određivanje žilavosti pri savijanju po Izodu – Amandman 1 (ISO 180:2000/Amd 1:2006; EN ISO 180:2000/A1:2006)

Plastics – Determination of Izod impact strength – Amendment 1 (ISO 180:2000/Amd 1:2006; EN ISO 180:2000/A1:2006)

- zamijenjena s: HRN EN ISO 180:2020

HRN EN ISO 180:2004/A2:2013 en

Plastika – Određivanje žilavosti pri savijanju po Izodu – Amandman 2: Preciznost podataka (ISO 180:2000/Amd 2:2013; EN ISO 180:2000/A2:2013)

Plastics – Determination of Izod impact strength – Amendment 2: Precision data (ISO 180:2000/Amd 2:2013; EN ISO 180:2000/A2:2013)

- zamijenjena s: HRN EN ISO 180:2020

HRN EN ISO 29988-1:2018 en

Plastika – Poli(oksimetilenski) (POM) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 29988-1:2018; EN ISO 29988-1:2018)

Plastics – Polyoxymethylene (POM) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 29988-1:2018; EN ISO 29988-1:2018)

- zamijenjena s: HRN EN ISO 29988-1:2020

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

HRN EN 12640:2008 en

Osiguranje tereta na cestovnim vozilima – Točke učvršćenja na gospodarskim vozilima za prijevoz roba – Minimalni zahtjevi i ispitivanje (EN 12640:2000)

Securing of cargo on road vehicles – Lashing points on commercial vehicles for goods transportation – Minimum requirements and testing (EN 12640:2000)

- zamijenjena s: HRN EN 12640:2020

HRN EN 12641-1:2008 en

Izmjenjiva tijela i gospodarska vozila – Cerade – 1. dio: Minimalni zahtjevi (EN 12641-1:2005)

Swap bodies and commercial vehicles – Tarpaulins – Part 1: Minimum requirements (EN 12641-1:2005)

- zamijenjena s: HRN EN 12641-1:2020

HRN EN 12641-2:2008 en

Izmjenjiva tijela i gospodarska vozila – Cerade – 2. dio: Minimalni zahtjevi za bočne stijene (EN 12641-2:2006)

Swap bodies and commercial vehicles – Tarpaulins – Part 2: Minimum requirements for curtainsiders (EN 12641-2:2006)

- zamijenjena s: HRN EN 12641-2:2020

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

HRN EN ISO 14978:2008 en  
Geometrijske specifikacije proizvoda (GSP) – Opći koncepti i zahtjevi za GSP mjernu opremu (ISO 14978:2006; EN ISO 14978:2006)  
Geometrical Product Specifications (GPS) – General concepts and requirements for GPS measuring equipment (ISO 14978:2006; EN ISO 14978:2006)  
- zamijenjena s: HRN EN ISO 14978:2020

HRN EN ISO 14978:2008/Ispr.1:2008 en  
Geometrijske specifikacije proizvoda (GSP) – Opći koncepti i zahtjevi za GSP mjernu opremu (ISO 14978:2006/Cor 1:2008; EN ISO 14978:2006/AC:2008)  
Geometrical Product Specifications (GPS) – General concepts and requirements for GPS measuring equipment (ISO 14978:2006/Cor 1:2008; EN ISO 14978:2006/AC:2008)  
- zamijenjena s: HRN EN ISO 14978:2020

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

HRN EN 13053:2012 en  
Ventilacija u zgradama – Centralne jedinice za pripremu zraka – Podjela i značajke jedinica, dijelova i sekcija (EN 13053:2006+A1:2011)  
Ventilation for buildings – Air handling units – Rating and performance for units, components and sections (EN 13053:2006+A1:2011)  
- zamijenjena s: HRN EN 13053:2020

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

HRN EN ISO 14971:2012 en  
Medicinski proizvodi – Primjena upravljanja rizikom za medicinske proizvode (ISO 14971:2007, ispravljena verzija 2007-10-01; EN ISO 14971:2012)  
Medical devices – Application of risk management to medical devices (ISO 14971:2007, Corrected version 2007-10-01; EN ISO 14971:2012)  
- zamijenjena s: HRN EN ISO 14971:2020

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

HRN EN ISO 13938-2:2008 en  
Tekstilije – Otpornost na probijanje – 2. dio: Pneumatska metoda određivanja čvrstoće kod probijanja i visine ispupčenja (ISO 13938-2:1999; EN ISO 13938-2:1999)  
Textiles – Bursting properties of fabrics – Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:1999; EN ISO 13938-2:1999)  
- zamijenjena s: HRN EN ISO 13938-2:2020

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

HRN EN 15202:2012 en  
Oprema i pribor za UNP – Osnovne dimenzije priključaka za ventile na bocama za UNP i pripadajućih priključaka za opremu (EN 15202:2012)  
LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections (EN 15202:2012)  
- zamijenjena s: HRN EN 15202:2020

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

HRN EN 792-13:2008 en  
Ručni neelektrični alati – Sigurnosni zahtjevi – 13. dio: Alati ("pištolji") za spajanje zabijanjem (EN 792-13:2000+A1:2008)  
Hand-held non-electric power tools – Safety requirements – Part 13: Fastener driving tools (EN 792-13:2000+A1:2008)  
- zamijenjena s: HRN EN ISO 11148-13:2020

HRN EN 1870-19:2013 en  
Sigurnost strojeva za obradu drveta – Kružne pile – 19. dio: Stolne kružne pile (s kliznim stolom i bez njega) i s ugrađenom bočnom pilom (EN 1870-19:2013)  
Safety of woodworking machines – Circular sawing machines – Part 19: Circular saw benches (with and without sliding table) and building site saws (EN 1870-19:2013)  
- zamijenjena s: HRN EN ISO 19085-10:2020

HRN EN 12012-1:2008 en  
Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 1. dio: Sigurnosni zahtjevi za granulatore sa noževima (EN 12012-1:2007+A1:2008)  
Plastics and rubber machines – Size reduction machines – Part 1: Safety requirements for blade granulators (EN 12012-1:2007+A1:2008)  
- zamijenjena s: HRN EN 12012-1:2020

HRN EN 12012-3:2008 en  
Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 3. dio: Sigurnosni zahtjevi za drobljenje (EN 12012-3:2001+A1:2008)  
Plastics and rubber machines – Size reduction machines – Part 3: Safety requirements for shredders (EN 12012-3:2001+A1:2008)  
- zamijenjena s: HRN EN 12012-1:2020

HRN EN 12012-4:2008 en  
Strojevi za gumu i plastiku – Strojevi za usitnjavanje – 4. dio: Sigurnosni zahtjevi za drobilice (EN 12012-4:2006+A1:2008)  
Plastics and rubber machines – Size reduction machines – Part 4: Safety requirements for agglomerators (EN 12012-4:2006+A1:2008)  
- zamijenjena s: HRN EN 12012-4:2020

HRN EN 13236:2016 en  
Sigurnosni zahtjevi za superabrazive (EN 13236:2010+A1:2015)  
Safety requirements for superabrasive products (EN 13236:2010+A1:2015)  
- zamijenjena s: HRN EN 13236:2020

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

HRN EN ISO 19353:2016 en  
Sigurnost strojeva – Prevencija požara i zaštita od požara (ISO 19353:2015; EN ISO 19353:2016)  
Safety of machinery – Fire prevention and fire protection (ISO 19353:2015; EN ISO 19353:2016)  
- zamijenjena s: HRN EN ISO 19353:2020

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

HRN CR 13505:2003 en  
Analiza hrane – Biotoksini – Ocjena analitičkih metoda mikotoksina (CR 13505:1999)  
Food analysis – Biotoxins – Criteria of analytical methods of mycotoxins (CR 13505:1999)  
- bez zamjene

HRN EN 14185-1:2005 en  
Nemasna hrana – Određivanje N-metilkarbamatnih ostataka – 1. dio: Metoda tekućinske kromatografije visokog učinka (HPLC) s čišćenjem apsorpcijom na čvrstoj fazi (EN 14185-1:2003)  
Non fatty foods – Determination of N-methylcarbamate residues – Part 1: HPLC-method with SPE clean-up (EN 14185-1:2003)  
- bez zamjene

HRS ISO/TS 19036:2008 en  
Mikrobiologija hrane i hrane za životinje – Smjernice za procjenu mjerne nesigurnosti za kvantitativna određivanja (ISO/TS 19036:2006)  
Microbiology of food and animal feeding stuffs – Guidelines for the estimation of measurement uncertainty for quantitative determinations (ISO/TS 19036:2006)  
- zamijenjena s: HRN EN ISO 19036:2020

HRS ISO/TS 19036:2008/A1:2014 en  
Mikrobiologija hrane i hrane za životinje – Smjernice za procjenu mjerne nesigurnosti za kvantitativna određivanja – Amandman 1: Mjerna nesigurnost za mali broj (ISO/TS 19036:2006/Amd 1:2009)  
Microbiology of food and animal feeding stuffs – Guidelines for the estimation of measurement uncertainty for quantitative determinations – Amendment 1: Measurement uncertainty for low counts (ISO/TS 19036:2006/Amd 1:2009)  
- zamijenjena s: HRN EN ISO 19036:2020

## HZN/TO 569, Hrana za životinje

- HRN EN 16215:2013 en  
Hrana za životinje – Određivanje dioksina i dioksinu sličnih PCB-a primjenom GC/HRMS i indikatorskih pokazatelja PCB-a primjenom GC/HRMS (EN 16215:2012)  
Animal feeding stuffs – Determination of dioxins and dioxin-like PCBs by GC/HRMS and of indicator PCBs by GC/HRMS (EN 16215:2012)  
- zamijenjena s: HRN EN 16215:2020

## HZN/TO E8, Sustavski vidovi opskrbe električnom energijom

- HRN EN 50438:2008 en  
Zahtjevi za priključak mikrogeneratora na javne niskonaponske distribucijske mreže (EN 50438:2007)  
Requirements for the connection of micro-generators in parallel with public low-voltage distribution networks (EN 50438:2007)  
- zamijenjena s: HRN EN 50438:2014
- HRN EN 50438:2008/IS1:2015 en  
Zahtjevi za priključak mikrogeneratora na javne niskonaponske distribucijske mreže (EN 50438:2007/IS1:2015)  
Requirements for the connection of micro-generators in parallel with public low-voltage distribution networks (EN 50438:2007/IS1:2015)  
- bez zamjene

## HZN/TO E9, Električna oprema za željeznicu

- HRN EN 50121-1:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 1. dio: Općenito (EN 50121-1:2006)  
Railway applications – Electromagnetic compatibility – Part 1: General (EN 50121-1:2006)  
- zamijenjena s: HRN EN 50121-1:2015
- HRN EN 50121-1:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 1. dio: Općenito (EN 50121-1:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 1: General (EN 50121-1:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-1:2015
- HRN EN 50121-1:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 1. dio: Općenito (EN 50121-1:2015)  
Railway applications – Electromagnetic compatibility – Part 1: General (EN 50121-1:2015)  
- zamijenjena s: HRN EN 50121-1:2017
- HRN EN 50121-2:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 2. dio: Emisija cjelokupnog željezničkog sustava u vanjski svijet (EN 50121-2:2006)  
Railway applications – Electromagnetic compatibility – Part 2: Emission of the whole railway system to the outside world (EN 50121-2:2006)  
- zamijenjena s: HRN EN 50121-2:2015
- HRN EN 50121-2:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 2. dio: Emisija cjelokupnog željezničkog sustava u vanjski svijet (EN 50121-2:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 2: Emission of the whole railway system to the outside world (EN 50121-2:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-2:2015
- HRN EN 50121-2:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 2. dio: Emisija cjelokupnoga željezničkog sustava u vanjski svijet (EN 50121-2:2015)  
Railway applications – Electromagnetic compatibility – Part 2: Emission of the whole railway system to the outside world (EN 50121-2:2015)  
- zamijenjena s: HRN EN 50121-2:2017
- HRN EN 50121-3-1:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-1: Željeznička vozila – Vlak i cijelo vozilo (EN 50121-3-1:2006)  
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle (EN 50121-3-1:2006)  
- zamijenjena s: HRN EN 50121-3-1:2015

- HRN EN 50121-3-1:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-1: Željeznička vozila – Vlak i cijelo vozilo (EN 50121-3-1:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle (EN 50121-3-1:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-3-1:2015

- HRN EN 50121-3-1:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-1: Željeznička vozila – Vlak i cijelo vozilo (EN 50121-3-1:2015)  
Railway applications – Electromagnetic compatibility – Part 3-1: Rolling stock – Train and complete vehicle (EN 50121-3-1:2015)  
- zamijenjena s: HRN EN 50121-3-1:2017

- HRN EN 50121-3-2:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-2: Željeznička vozila – Uređaji (EN 50121-3-2:2006)  
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus (EN 50121-3-2:2006)  
- zamijenjena s: HRN EN 50121-3-2:2015

- HRN EN 50121-3-2:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-2: Željeznička vozila – Uređaji (EN 50121-3-2:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus (EN 50121-3-2:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-3-2:2015

- HRN EN 50121-3-2:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – Dio 3-2: Željeznička vozila – Uređaji na vozilu (EN 50121-3-2:2015)  
Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus (EN 50121-3-2:2015)  
- zamijenjena s: HRN EN 50121-3-2:2017

- HRN EN 50121-4:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 4. dio: Emisija i otpornost signalnih i telekomunikacijskih uređaja (EN 50121-4:2006)  
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus (EN 50121-4:2006)  
- zamijenjena s: HRN EN 50121-4:2015

- HRN EN 50121-4:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 4. dio: Emisija i otpornost signalnih i telekomunikacijskih uređaja (EN 50121-4:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus (EN 50121-4:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-4:2015

- HRN EN 50121-4:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 4. dio: Emisija i otpornost signalnih i telekomunikacijskih uređaja (EN 50121-4:2015)  
Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signalling and telecommunications apparatus (EN 50121-4:2015)  
- zamijenjena s: HRN EN 50121-4:2017

- HRN EN 50121-5:2008 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 5. dio: Emisija i otpornost stabilnih postrojenja za napajanje i uređaja (EN 50121-5:2006)  
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus (EN 50121-5:2006)  
- zamijenjena s: HRN EN 50121-5:2015

- HRN EN 50121-5:2008/Ispr.1:2013 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 5. dio: Emisija i otpornost stabilnih postrojenja za napajanje i uređaja (EN 50121-5:2006/AC:2008)  
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus (EN 50121-5:2006/AC:2008)  
- zamijenjena s: HRN EN 50121-5:2015

- HRN EN 50121-5:2015 en  
Željeznički sustav – Elektromagnetska kompatibilnost – 5. dio: Emisija i otpornost stabilnih postrojenja za napajanje i uređaja (EN 50121-5:2015)  
Railway applications – Electromagnetic compatibility – Part 5: Emission and immunity of fixed power supply installations and apparatus (EN 50121-5:2015)  
- zamijenjena s: HRN EN 50121-5:2017
- HRN EN 50125-1:2001 en  
Željeznički sustav – Uvjeti okoliša za opremu – 1. dio: Oprema u željezničkim vozilima (EN 50125-1:1999)  
Railway applications – Environmental conditions for equipment – Part 1: Equipment on board rolling stock (EN 50125-1:1999)  
- zamijenjena s: HRN EN 50125-1:2014
- HRN EN 50125-1:2001/Ispr.1:2014 en  
Željeznički sustav – Uvjeti okoline za opremu – 1. dio: Željeznička vozila i oprema na njima (EN 50125-1:1999/AC:2010)  
Railway applications – Environmental conditions for equipment – Part 1: Equipment on board rolling stock (EN 50125-1:1999/AC:2010)  
- zamijenjena s: HRN EN 50125-1:2014
- HRI CLC/TR 50126-2:2008 en  
Željeznički sustav – Pojediniosti i prikazi pouzdanosti, raspoloživosti, mogućnosti održavanja i sigurnosti (RAMS) – 2. dio: Upute za primjenu EN 50126-1 za sigurnost (CLC/TR 50126-2:2007)  
Railway applications – The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) – Part 2: Guide to the application of EN 50126-1 for safety (CLC/TR 50126-2:2007)  
- zamijenjena s: HRN EN 50126-2:2017
- HRN EN 50151:2007 en  
Željeznički sustav – Stabilna postrojenja – Električna vuča – Posebni zahtjevi za kompozitne izolatore (EN 50151:2003)  
Railway applications – Fixed installations – Electric traction – Special requirements for composite insulators (EN 50151:2003)  
- zamijenjena s: HRN EN 62621:2016
- HRN EN 50151:2007/Ispr.1:2014 en  
Željeznički sustav – Stabilna postrojenja – Električna vuča – Posebni zahtjevi za kompozitne izolatore (EN 50151:2003/AC:2010)  
Railway applications – Fixed installations – Electric traction – Special requirements for composite insulators (EN 50151:2003/AC:2010)  
- zamijenjena s: HRN EN 62621:2016
- HRN EN 50152-3-2:2001 en  
Željeznički sustav – Stabilna postrojenja – Posebni zahtjevi za izmjenična rasklopna postrojenja – Dio 3-2: Mjerni, upravljački i zaštitni uređaji za posebnu uporabu u izmjeničnim sustavima vuče – Jednofazni strujni transformatori (EN 50152-3-2:2001)  
Railway applications – Fixed installations – Particular requirements for a.c. switchgear – Part 3-2: Measurement, control and protection devices for specific use in a.c. traction systems – Single-phase current transformers (EN 50152-3-2:2001)  
- zamijenjena s: HRN EN 50152-3-2:2016
- HRN EN 50152-3-3:2001 en  
Željeznički sustav – Stabilna postrojenja – Posebni zahtjevi za izmjenična rasklopna postrojenja – Dio 3-3: Mjerni, upravljački i zaštitni uređaji za posebnu uporabu u izmjeničnim sustavima vuče – Jednofazni naponski transformatori (EN 50152-3-3:2001)  
Railway applications – Fixed installations – Particular requirements for a.c. switchgear – Part 3-3: Measurement, control and protection devices for specific use in a.c. traction systems – Single-phase inductive voltage transformers (EN 50152-3-3:2001)  
- zamijenjena s: HRN EN 50152-3-3:2016
- HRN EN 50153:2007 en  
Željeznički sustav – Željeznička vozila – Odredbe o zaštiti od opasnosti od električnog udara (EN 50153:2002)  
Railway applications – Rolling stock – Protective provisions relating to electrical hazards (EN 50153:2002)  
- zamijenjena s: HRN EN 50153:2014
- HRN EN 50311:2007 en  
Željeznički sustav – Željeznička vozila – Istosmjerno napajani elektronički pretvarači za fluorescentnu rasvjetu (EN 50311:2003)  
Railway applications – Rolling stock – D.C. supplied electronic ballasts for lightning fluorescent lamps (EN 50311:2003)  
- zamijenjena s: HRN EN 62718:2016
- HRN EN 50343:2007 en  
Željeznički sustav – Željeznička vozila – Pravila instaliranja ožičenja (EN 50343:2003)  
Railway applications – Rolling stock – Rules for installation of cabling (EN 50343:2003)  
- zamijenjena s: HRN EN 50343:2014
- HRN EN 50405:2008 en  
Željeznički sustav – Sustavi oduzimača struje – Pantografi, načini ispitivanja grafitnih klizača (EN 50405:2006)  
Railway applications – Current collection systems – Pantographs, testing methods for carbon contact strips (EN 50405:2006)  
- zamijenjena s: HRN EN 50405:2016
- HRI CLC/TR 50451:2008 en  
Željeznički sustav – Sustavno dodjeljivanje zahtjeva za cjelovitu sigurnost (CLC/TR 50451:2007)  
Railway applications – Systematic allocation of safety integrity requirements (CLC/TR 50451:2007)  
- zamijenjena s: HRN EN 50129:2018
- HRS CLC/TS 50502:2008 en  
Željeznički sustav – Željeznička vozila – Električna oprema u trolejbusima – Zahtjevi za sigurnost i sustavi spajanja (CLC/TS 50502:2008)  
Railway applications – Rolling stock – Electric equipment in trolley buses – Safety requirements and connection systems (CLC/TS 50502:2008)  
- zamijenjena s: HRN EN 50502:2015
- HRI CLC/TR 50506-1:2008 en  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Upute za primjenu EN 50129 – 1. dio: Međusobno priznavanje (CLC/TR 50506-1:2007)  
Railway applications – Communication, signalling and processing systems – Application Guide for EN 50129 – Part 1: Cross-acceptance (CLC/TR 50506-1:2007)  
- zamijenjena s: HRN EN 50129:2018
- HRI CLC/TR 50506-2:2011 en  
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Upute za primjenu EN 50129 – 2. dio: Osiguranje sigurnosti (CLC/TR 50506-2:2009)  
Railway applications – Communication, signalling and processing systems – Application Guide for EN 50129 – Part 2: Safety assurance (CLC/TR 50506-2:2009)  
- bez zamjene
- HRI CLC/TR 50542-1:2017 en  
Željeznički sustav – Upravljački uređaj zaslona u upravljačnici (TDC) – 1. dio: Opća arhitektura (CLC/TR 50542-1:2014)  
Railway applications – Driver's cab train display controller (TDC) – Part 1: General architecture (CLC/TR 50542-1:2014)  
- zamijenjena s: HRI CLC/TR 50542-1:2020
- HRS CLC/TS 50562:2013 en  
Željeznički sustav – Stabilna postrojenja – Postupak, mjere i demonstracija sigurnosti za sustave električne vuče (CLC/TS 50562:2011)  
Railway applications – Fixed installations – Process, measures and demonstration of safety for electric traction systems (CLC/TS 50562:2011)  
- zamijenjena s: HRN EN 50562:2018
- HRN EN 60310:2007 en  
Željeznički sustav – Vučni transformatori i prigušnice u željezničkim vozilima (IEC 60310:2004; EN 60310:2004)  
Railway applications – Traction transformers and inductors on board rolling stock (IEC 60310:2004; EN 60310:2004)  
- zamijenjena s: HRN EN 60310:2016
- HRN EN 61287-1:2008 en  
Željeznički sustav – Energetski pretvarači ugrađeni na željeznička vozila – 1. dio: Karakteristike i načini ispitivanja (IEC 61287-1:2005; EN 61287-1:2006)  
Railway applications – Power converters installed on board rolling stock – Part 1: Characteristics and test methods (IEC 61287-1:2005; EN 61287-1:2006)  
- zamijenjena s: HRN EN 61287-1:2014



HRN EN 61377-1:2008 en

Željeznički sustav – Željeznička vozila – 1. dio: Kombinirana ispitivanja izmjeničnih motora napajanih iz izmjenjivača i njihovog upravljanja (IEC 61377-1:2006; EN 61377-1:2006)  
Railway applications – Rolling stock – Part 1: Combined testing of inverter-fed alternating current motors and their control system (IEC 61377-1:2006; EN 61377-1:2006)  
- zamijenjena s: HRN EN 61377:2016

HRN EN 61377-1:2008/Ispr.1:2014 en

Željeznički sustav – Željeznička vozila – 1. dio: Kombinirana ispitivanja izmjeničnih motora napajanih iz izmjenjivača i njihovog upravljanja (EN 61377-1:2006/AC:2006)  
Railway applications – Rolling stock – Part 1: Combined testing of inverter-fed alternating current motors and their control system (EN 61377-1:2006/AC:2006)  
- zamijenjena s: HRN EN 61377:2016

HRN EN 61377-2:2007 en

Željeznički sustav – Željeznička vozila – Kombinirana ispitivanja – 2. dio: Istosmjerni vučni motori napajani iz čopera i njihovo upravljanje (IEC 61377-2:2002; EN 61377-2:2002)  
Railway applications – Rolling stock – Combined testing – Part 2: Chopper-fed direct current traction motors and their control (IEC 61377-2:2002; EN 61377-2:2002)  
- zamijenjena s: HRN EN 61377:2016

HRN EN 61377-3:2007 en

Željeznički sustav – Željeznička vozila – Kombinirana ispitivanja – 3. dio: Kombinirano ispitivanje izmjeničnih motora napajanih iz indirektnih pretvarača i njihov sustav upravljanja (IEC 61377-3:2002; EN 61377-3:2002)  
Railway applications – Rolling stock – Combined testing – Part 3: Combined testing of alternating current motors, fed by an indirect convertor, and their control system (IEC 61377-3:2002; EN 61377-3:2002)  
- zamijenjena s: HRN EN 61377:2016

HRN EN 62290-1:2008 en

Željeznički sustav – Sustav upravljanja gradskim tračničkim prometom i upravljačko/nadzorni sustavi – 1. dio: Osnove sustava i temeljni pojmovi (IEC 62290-1:2006; EN 62290-1:2006)  
Railway applications – Urban guided transport management and command/control systems – Part 1: System principles and fundamental concepts (IEC 62290-1:2006; EN 62290-1:2006)  
- zamijenjena s: HRN EN 62290-1:2014

HRN EN 62290-2:2013 en

Željeznički sustav – Sustav upravljanja gradskim tračničkim prometom i upravljačko/nadzorni sustavi – 2. dio: Specifikacija zahtjeva za funkcionalnost (IEC 62290-2:2011; EN 62290-2:2011)  
Railway applications – Urban guided transport management and command/control systems – Part 2: Functional requirements specification (IEC 62290-2:2011; EN 62290-2:2011)  
- zamijenjena s: HRN EN 62290-2:2014

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

HRN EN 50249:2008 en

Elektromagnetski lokatori za ukopane cijevi i kabele – Značajke i sigurnost (EN 50249:2002)  
Electromagnetic locators for buried pipes and cables – Performance and safety (EN 50249:2002)  
- bez zamjene

HRS CLC/TS 52056-8-4:2015 en

Electricity metering data exchange – The DLMS/COSEM suite – Part 8-4: Narrow-band OFDM PRIME PLC communication profile for neighbourhood networks (CLC/TS 52056-8-4:2015)  
- bez zamjene

HRS CLC/TS 52056-8-5:2015 en

Electricity metering data exchange – The DLMS/COSEM suite – Part 8-5: Narrow-band OFDM G3-PLC communication profile for neighbourhood networks (CLC/TS 52056-8-5:2015)  
- zamijenjena s: HRN EN 62056-8-5:2018

HRN EN 62056-5-3:2014 en

Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 5-3: Sloj primjene DLMS/COSEM-a (IEC 62056-5-3:2013; EN 62056-5-3:2014)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer (IEC 62056-5-3:2013; EN 62056-5-3:2014)  
- zamijenjena s: HRN EN 62056-5-3:2016

HRN EN 62056-6-1:2014 en

Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 6-1: Sustav prepoznavanja objekta (OBIS - Object Identification System) (IEC 62056-6-1:2013; EN 62056-6-1:2013)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 6-1: Object Identification System (OBIS) (IEC 62056-6-1:2013; EN 62056-6-1:2013)  
- zamijenjena s: HRN EN 62056-6-1:2016

HRN EN 62056-6-2:2014 en

Razmjena podataka mjerenja električne energije – Oprema DLMS/COSEM (Device Language Message Specification / Companion Specification for Energy Metering) – Dio 6-2: COSEM razredi sučelja (IEC 62056-6-2:2013; EN 62056-6-2:2013)  
Electricity metering data exchange – The DLMS/COSEM suite – Part 6-2: COSEM interface classes (IEC 62056-6-2:2013; EN 62056-6-2:2013)  
- zamijenjena s: HRN EN 62056-6-2:2016

HRN EN 62056-47:2008 en

Mjerenje električne energije – Razmjena podataka za očitavanje brojala i upravljanje tarifom i potrošnjom – 47. dio: COSEM prijenosne razine za IPv4 (Internet Protocol Version 4) mreže (IEC 62056-47:2006; EN 62056-47:2007)  
Electricity metering – Data exchange for meter reading, tariff and load control – Part 47: COSEM transport layers for IPv4 networks (IEC 62056-47:2006; EN 62056-47:2007)  
- zamijenjena s: HRN EN 62056-4-7:2016

HRN EN 135000:2008 en

Rodna specifikacija: Elektronke pojačala putujućeg vala (EN 135000:1992)  
Generic Specification: Travelling wave amplifier tubes (EN 135000:1992)  
- bez zamjene

HRN EN 135001:2008 en

Neispunjena specifikacija pojedinosti: Elektronke stalnog putujućeg vala za pojačala snage do 500 vata (EN 135001:1992)  
Blank Detail Specification: C.W. power amplifier travelling wave tubes up to 500 Watts (EN 135001:1992)  
- bez zamjene

HRN EN 136000:2008 en

Rodna specifikacija: Magnetroni (EN 136000:1992)  
Generic Specification: Magnetrons (EN 136000:1992)  
- bez zamjene

HRN EN 136001:2008 en

Neispunjena specifikacija pojedinosti: Impulsni magnetroni (isključujući magnetrone s brzom promjenom frekvencije) (EN 136001:1992)  
Blank Detail Specification: Pulsed magnetrons (Excluding frequency agile magnetrons) (EN 136001:1992)  
- bez zamjene

HRN EN 136002:2008 en

Neispunjena specifikacija pojedinosti: Magnetroni sa stalnim valom za primjene grijanja ili kuhanja radio-frekvencijama (EN 136002:1992)  
Blank Detail Specification: C.W. magnetrons for RF heating or cooking applications (EN 136002:1992)  
- bez zamjene

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

HRN EN 60674-2:2005 en

Specifikacija za plastične folije za elektrotehničke svrhe – 2. dio: Metode ispitivanja (IEC 60674-2:1988+Corr.1:1994+am1:2001; EN 60674-2:1998+A1:2001)  
Specification for plastic films for electrical purposes – Part 2: Methods of test (IEC 60674-2:1988+Corr.1:1994+am1:2001; EN 60674-2:1998+A1:2001)  
- zamijenjena s: HRN EN 60674-2:2017

HRN EN 60684-3-214:2008 en

Savitljive izolacijske navlake – 3. dio: Specifikacije za pojedinačne tipove navlaka – 214. list: Toplinski skupljajuće poliolefinске navlake, bez usporenog gorenja, omjer skupljanja 3:1 – Debele i srednje debele stijenke (IEC 60684-3-214:2005; EN 60684-3-214:2005)  
Flexible insulating sleeving – Part 3: Specifications for individual types of sleeving – Sheet 214: Heat-shrinkable, polyolefin sleeving, not flame retarded, shrink ratio 3:1 – Thick and medium wall (IEC 60684-3-214:2005; EN 60684-3-214:2005)  
- zamijenjena s: HRN EN 60684-3-214:2014

## HZN/TO E45, Nuklearna instrumentacija

HRN HD 442 S1:2005 en  
Oprema za zaštitu od zračenja za mjerenje i praćenje tritija u zraku (IEC 60710:1981; HD 442 S1:1983)  
Radiation protection equipment for the measuring and monitoring of airborne tritium (IEC 60710:1981; HD 442 S1:1983)  
- bez zamjene

HRN EN 61005:2007 en  
Instrumentacija u zaštiti od zračenja – Mjerila neutronskoga doznog ekvivalenta i brzine doznog ekvivalenta u okolini (IEC 61005:2003, preinačeno; EN 61005:2004)  
Radiation protection instrumentation – Neutron ambient dose equivalent (rate) meters (IEC 61005:2003, modified; EN 61005:2004)  
- zamijenjena s: HRN EN 61005:2017

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

HRN HD 193 S2:2001 en  
Naponska područja za električne instalacije zgrada (IEC 60449:1973+A1:1979; HD 193 S2:1982)  
Voltage bands for electrical installations of buildings (IEC 60449:1973+A1:1979; HD 193 S2:1982)  
- bez zamjene

HRN HD 384.4.46 S2:2002 en  
Električne instalacije zgrada – 4. dio: Sigurnosna zaštita – 46. poglavlje – Odvajanje i sklapanje (IEC 60364-4-46:1981, preinačena; HD 384.4.46 S2:2001)  
Electrical installations of buildings – Part 4: Protection for safety – Chapter 46: Isolation and switching (IEC 60364-4-46:1981, modified; HD 384.4.46 S2:2001)  
- zamijenjena s: HRN HD 60364-4-46:2016

HRN HD 384.5.537 S2:1999 en  
Električne instalacije zgrada – 5. dio: Odabir i ugradba električne opreme – 53. poglavlje: Sklopni i upravljački uređaji – 537. odjeljak: Naprave za odvajanje i sklapanje (IEC 60364-5-537:1981+am1:1989; HD 384.5.537 S2:1998)  
Electrical installations of buildings – Part 5: Selection and erection of electrical equipment – Chapter 53: Switchgear and controlgear – Section 537: Devices for isolation and switching (IEC 60364-5-537:1981+am1:1989; HD 384.5.537 S2:1998)  
- zamijenjena s: HRN HD 60364-5-537:2016

HRN HD 50573-5-57:2014 en  
Usklađivanje električne opreme za zaštitu, odvajanje, sklapanje i upravljanje (HD 50573-5-57:2014)  
Co-ordination of electrical equipment for protection, isolation, switching and control (HD 50573-5-57:2014)  
- zamijenjena s: HRN HD 60364-5-53:2016

HRN HD 60364-4-443:2007 en  
Električne instalacije zgrada – Dio 4-44: Sigurnosna zaštita – Zaštita od naponskih i elektromagnetskih smetnji – 443.odjeljak: Prenaponska zaštita od atmosferskih ili sklopnih prenapona (IEC 60364-4-44:2001/am1:2003, MOD; HD 60364-4-443:2006)  
Electrical installations of buildings – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances – Clause 443: Protection against overvoltages of atmospheric origin or due the switching (IEC 60364-4-44:2001/am1:2003, MOD; HD 60364-4-443:2006)  
- zamijenjena s: HRN HD 60364-4-443:2016

HRN HD 60364-5-53:2015 en  
Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradnja električne opreme – Sklopni i upravljački uređaji (HD 60364-5-53:2015)  
Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Switchgear and controlgear (HD 60364-5-53:2015)  
- zamijenjena s: HRN HD 60364-5-53:2016

HRN HD 60364-5-534:2008 en  
Niskonaponske električne instalacije – Dio 5-53: Odabir i ugradba električne opreme – Odvajanje, sklapanje i upravljanje – Točka 534: Naprave za zaštitu od prenapona (IEC 60364-5-53:2001/am1:2002, MOD; HD 60364-5-534:2008)  
Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment – Isolation, switching and control – Clause 534: Devices for protection against overvoltages (IEC 60364-5-53:2001/am1:2002, MOD; HD 60364-5-534:2008)  
- zamijenjena s: HRN HD 60364-5-534:2016

HRN HD 60364-6:2007 en  
Niskonaponske električne instalacije – 6.dio: Provjeravanje (IEC 60364-6:2006, MOD; HD 60364-6:2007)  
Low-voltage electrical installations – Part 6: Verification (IEC 60364-6:2006, MOD; HD 60364-6:2007)  
- zamijenjena s: HRN HD 60364-6:2016

HRN HD 60364-7-712:2007 en  
Električne instalacije zgrada – Dio 7-712: Zahtjevi za posebne instalacije ili prostore – Sustavi za sunčanu fotonaponsku (PV) energetske opskrbe (IEC 60364-7-712:2002, MOD; HD 60364-7-712:2005)  
Electrical installations of buildings – Part 7-712: Requirements of special installations or locations – Solar photovoltaic (PV) power supply systems (IEC 60364-7-712:2002, MOD; HD 60364-7-712:2005)  
- zamijenjena s: HRN HD 60364-7-712:2016

HRN HD 60364-7-712:2007/Ispr.1:2014 en  
Električne instalacije zgrada – Dio 7-712: Zahtjevi za posebne instalacije ili prostore – Sustavi za sunčanu fotonaponsku (PV) energetske opskrbe (HD 60364-7-712:2005/AC:2006)  
Electrical installations of buildings – Part 7-712: Requirements for special installations or locations – Solar photovoltaic (PV) power supply systems (HD 60364-7-712:2005/AC:2006)  
- zamijenjena s: HRN HD 60364-7-712:2016

HRN HD 60364-7-722:2013 en  
Niskonaponske električne instalacije – Dio 7-722: Zahtjevi za posebne instalacije ili prostore – Opskrba električnog vozila (HD 60364-7-722:2012)  
Low voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supply of electric vehicle (HD 60364-7-722:2012)  
- zamijenjena s: HRN HD 60364-7-722:2016

HRN EN 61140/A1:2007 en  
Zaštita od električnog udara – Zajednička gledišta na instalaciju i opremu (IEC 61140:2001/am1:2004, MOD; EN 61140:2002/A1:2006)  
Protection against electric shock – Common aspects for installation and equipment (IEC 61140:2001/am1:2004, MOD; EN 61140:2002/A1:2006)  
- zamijenjena s: HRN EN 61140:2016

HRN EN 61140:2002 en  
Zaštita od električnog udara – Zajednička gledišta na instalaciju i opremu (IEC 61140:2001, EN 61140:2002)  
Protection against electric shock – Common aspects for installation and equipment (IEC 61140:2001; EN 61140:2002)  
- zamijenjena s: HRN EN 61140:2016

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

HRN EN 61003-1:2008 en  
Sustavi za vođenje industrijskih procesa – Instrumenti s analognim ulazima i izlazima s dva ili više stanja – 1. dio: Metode ocjenjivanja izvedbe (IEC 61003-1:2004; EN 61003-1:2004)  
Industrial-process control systems – Instruments with analogue inputs and two- or multi-state outputs – Part 1: Methods of evaluating performance (IEC 61003-1:2004; EN 61003-1:2004)  
- zamijenjena s: HRN EN 61003-1:2016

HRN EN 61003-2:2010 en  
Sustavi za vođenje industrijskih procesa – Instrumenti s analognim ulazima i izlazima s dva ili više stanja – 2. dio: Uputa za inspekciju i rutinska ispitivanja (IEC 61003-2:2009; EN 61003-2:2009)  
Industrial-process control systems – Instruments with analogue inputs and two- or multi-state outputs – Part 2: Guidance for inspection and routine testing (IEC 61003-2:2009; EN 61003-2:2009)  
- zamijenjena s: HRN EN 61003-2:2016

HRN EN 61069-1:2008 en  
Industrijska procesna mjerna oprema i oprema za vođenje – Ocjena svojstva sustava u svrhu procjene sustava – 1. dio: Opća razmatranja i metodologija (IEC 61069-1:1991; EN 61069-1:1993+AC:1993)  
Industrial-process measurement and control – Evaluation of system properties for the purpose of system assessment – Part 1: General considerations and methodology (IEC 61069-1:1991; EN 61069-1:1993+AC:1993)  
- zamijenjena s: HRN EN 61069-1:2016

HRN EN 61069-2:2008 en  
Industrijska procesna mjerna oprema i oprema za vođenje  
– Ocjena svojstva sustava u svrhu procjene sustava  
– 2. dio: Metodologija procjenjivanja (IEC 61069-2:1993;  
EN 61069-2:1994)  
Industrial-process measurement and control – Evaluation  
of system properties for the purpose of system assessment  
– Part 2: Assessment methodology (IEC 61069-2:1993;  
EN 61069-2:1994)  
– zamijenjena s: HRN EN 61069-2:2016

HRN EN 61069-3:2008 en  
Industrijska procesna mjerna oprema i oprema za vođenje  
– Ocjena svojstva sustava u svrhu procjene sustava  
– 3. dio: Procjena funkcionalnosti sustava (IEC 61069-3:1996;  
EN 61069-3:1996)  
Industrial-process measurement and control – Evaluation  
of system properties for the purpose of system  
assessment – Part 3: Assessment of system functionality  
(IEC 61069-3:1996; EN 61069-3:1996)  
– zamijenjena s: HRN EN 61069-3:2016

HRN EN 61069-4:2008 en  
Industrijska procesna mjerna oprema i oprema za vođenje  
– Ocjena svojstva sustava u svrhu procjene sustava – 4. dio:  
Procjena izvedbe sustava (IEC 61069-4:1997+Corr.1:1997;  
EN 61069-4:1997)  
Industrial process measurement and control – Evaluation  
of system properties for the purpose of system  
assessment – Part 4: Assessment of system performance  
(IEC 61069-4:1997+Corr.1:1997; EN 61069-4:1997)  
– zamijenjena s: HRN EN 61069-4:2016

HRN EN 62264-5:2014 en  
Integracija sustava za vođenje poduzeća – 5. dio: Izvještavanje  
između poslovanja i proizvodnje (IEC 62264-5:2011;  
EN 62264-5:2012)  
Enterprise system integration – Part 5: Business to  
manufacturing transactions (IEC 62264-5:2011; EN 62264-5:2012)  
– zamijenjena s: HRN EN 62264-5:2016

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

HRS CLC/TS 50131-2-8:2013 en  
Alarmni sustavi – Protuprovalni i protupreparni sustavi  
– Dio 2-8: Protuprovalni detektori – Detektori udara  
(CLC/TS 50131-2-8:2012)  
Alarm systems – Intrusion and hold-up systems – Part 2-8:  
Intrusion detectors – Shock detectors (CLC/TS 50131-2-8:2012)  
– zamijenjena s: HRN EN 50131-2-8:2017

HRS CLC/TS 50131-2-8:2013/IS1:2014 en  
Alarmni sustavi – Protuprovalni i protupreparni sustavi  
– Dio 2-8: Protuprovalni detektori – Detektori udara  
(CLC/TS 50131-2-8:2012/IS1:2014)  
Alarm systems – Intrusion and hold-up systems – Part 2-8: Intrusion  
detectors – Shock detectors (CLC/TS 50131-2-8:2012/IS1:2014)  
– bez zamjene

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

HRN EN 62320-2:2008 en  
Pomorska navigacijska i radiokomunikacijska oprema i  
sustavi – Sustav automatske identifikacije (AIS) – 2. dio: AIS  
postaje za pomoćna navigacijska sredstva – Radni i izvedbeni  
zahtjevi, metode ispitivanja i zahtijevani rezultati ispitivanja  
(IEC 62320-2:2008; EN 62320-2:2008)  
Maritime navigation and radiocommunication equipment and  
systems – Automatic identification system (AIS)  
– Part 2: AIS AtoN Stations – Operational and performance  
requirements, methods of testing and required test results  
(IEC 62320-2:2008; EN 62320-2:2008)  
– zamijenjena s: HRN EN 62320-2:2017

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

HRN EN 50248:2003 en  
Značajke prijarnika digitalne radiodifuzije (DAB, Digital  
Audio Broadcasting) (EN 50248:2001)  
Characteristics of DAB receivers (EN 50248:2001)  
– zamijenjena s: HRN EN 62104:2008

HRN EN 50248:2003/Ispr.1:2014 en  
Značajke prijarnika digitalne radiodifuzije (DAB, Digital  
Audio Broadcasting) (EN 50248:2001/AC:2007)  
Characteristics of DAB receivers (EN 50248:2001/AC:2007)  
– zamijenjena s: HRN EN 62104:2008

HRN EN 60849:2008 en  
Sound systems for emergency purposes (IEC 60849:1998;  
EN 60849:1998)  
– zamijenjena s: HRN EN 50849:2017

HRN EN 62605:2012 en  
Multimedijski sustavi i oprema – Multimedijsko e-izdavaštvo  
i e-knjige – Format međusobne izmjene za e-rječnike  
(IEC 62605:2011; EN 62605:2011)  
Multimedia systems and equipment – Multimedia e-publishing  
and e-books – Interchange format for e-dictionaries  
(IEC 62605:2011; EN 62605:2011)  
– zamijenjena s: HRN EN 62605:2016

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

HRN EN 50421:2007 en  
Norma za proizvode za pokazivanje sukladnosti pojedinačnih  
radiodifuzijskih odašiljača s referencijskim razinama ili  
temeljnim ograničenjima koja se odnose na izloženost  
pučanstva radiofrekvencijskim elektromagnetskim poljima  
(30 MHz - 40 GHz) (EN 50421:2006)  
Product standard to demonstrate the compliance of stand  
alone broadcast transmitters with the reference levels or  
the basic restrictions related to public human exposure to  
radio frequency electromagnetic fields (30 MHz - 40 GHz)  
(EN 50421:2006)  
– bez zamjene

HRN EN 50476:2008 en  
Norma za proizvode za pokazivanje sukladnosti  
radiodifuzijskih odašiljača s referentnim razinama i  
temeljnim ograničenjima koja se odnose na izloženost  
pučanstva radiofrekvencijskim elektromagnetskim poljima  
(3 MHz-30 MHz) (EN 50476:2008)  
Product standard to demonstrate the compliance of broadcast  
station transmitters with the reference levels and the basic  
restrictions related to public exposure to radio frequency  
electromagnetic fields (3 MHz-30 MHz) (EN 50476:2008)  
– bez zamjene

HRN EN 50519:2012 en  
Procjena izloženosti radnika električnim i magnetskim  
poljima industrijske opreme za induksijsko zagrijavanje  
(EN 50519:2010)  
Assessment of workers' exposure to electric and  
magnetic fields of industrial induction heating equipment  
(EN 50519:2010)  
– bez zamjene

HRN EN 50527-1:2012 en  
Postupak za procjenu izloženosti elektromagnetskim poljima  
radnika koji nose aktivne medicinske implantate – 1. dio:  
Općenito (EN 50527-1:2010)  
Procedure for the assessment of the exposure to  
electromagnetic fields of workers bearing active implantable  
medical devices – Part 1: General (EN 50527-1:2010)  
– zamijenjena s: HRN EN 50527-1:2016

HRN EN 50527-2-1:2011 en  
Postupak za procjenu izloženosti elektromagnetskim poljima  
radnika koji nose aktivne medicinske implantate – Dio 2-1:  
Specifična procjena za radnike s elektrostimulatorima srca  
(EN 50527-2-1:2011)  
Procedure for the assessment of the exposure to  
electromagnetic fields of workers bearing active implantable  
medical devices – Part 2-1: Specific assessment for workers  
with cardiac pacemakers (EN 50527-2-1:2011)  
– zamijenjena s: HRN EN 50527-2-1:2016

HRN EN 62209-1:2007 en  
Izloženost ljudi radiofrekvencijskim poljima iz ručnih uređaja  
i uređaja za bežičnu komunikaciju postavljenih na tijelo  
– Modeli ljudskog tijela, instrumenti i postupci – 1. dio:  
Postupak određivanja gustoće apsorbirane snage (SAR)  
za ručne uređaje koji se rabe u neposrednoj blizini  
uha (frekvencijsko područje od 300 MHz do 3 GHz)  
(IEC 62209-1:2005; EN 62209-1:2006)  
Human exposure to radio frequency fields from hand-held  
and body-mounted wireless communication devices – Human  
models, instrumentation and procedures – Part 1: Procedure  
to determine the specific absorption rate (SAR) for hand-held  
devices used in close proximity to the ear (frequency range of  
300 MHz to 3 GHz) (IEC 62209-1:2005; EN 62209-1:2006)  
– zamijenjena s: HRN EN 62209-1:2016

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

- HRN EN 60118-0:1998 en  
Slušna pomagala – 0. dio: Mjerenje elektroakustičkih značajki (IEC 60118-0:1983+am1:1994; EN 60118-0:1993+A1:1994)  
Hearing aids – Part 0: Measurement of electroacoustical characteristics (IEC 60118-0:1983+am1:1994; EN 60118-0:1993+A1:1994)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN EN 60118-1:1998 en  
Slušna pomagala – 1. dio: Slušna pomagala s induktivnim ulaznim krugom (IEC 60118-1:1995; EN 60118-1:1995)  
Hearing aids – Part 1: Hearing aids with induction pick-up coil input (IEC 60118-1:1995; EN 60118-1:1995)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN EN 60118-1:1998/A1:2002 en  
Slušna pomagala – 1. dio: Slušna pomagala s induktivnim ulaznim krugom (IEC 60118-1:1995/A1:1998; EN 60118-1:1995/A1:1998)  
Hearing aids – Part 1: Hearing aids with induction pick-up coil input (IEC 60118-1:1995/A1:1998; EN 60118-1:1995/A1:1998)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN EN 60118-2:1998 en  
Slušna pomagala – 2. dio: Slušna pomagala s krugovima za automatsko upravljanje pojačanjem (IEC 60118-2:1983+am1:1993; EN 60118-2:1995)  
Hearing aids – Part 2: Hearing aids with automatic gain control circuits (IEC 60118-2:1983+am1:1993; EN 60118-2:1995)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN EN 60118-2:1998/A2:2004 en  
Slušna pomagala – 2. dio: Slušna pomagala s krugovima za automatsko upravljanje pojačanjem (IEC 60118-2:1983/am2:1997; EN 60118-2:1995/A2:1997)  
Hearing aids – Part 2: Hearing aids with automatic gain control circuits (IEC 60118-2:1983/am2:1997; EN 60118-2:1995/A2:1997)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN IEC 60118-3:2002 en  
Slušna pomagala – 3. dio: Slušna pomagala, kod kojih slušatelj ne nosi sve dijelove na sebi (IEC 60118-3:1983)  
Hearing aids – Part 3: Hearing aid equipment not entirely worn on the listener (IEC 60118-3:1983)  
- zamijenjena s: HRN HD 450.3 S1:2012
- HRN EN 60118-4:2008 en  
Elektroakustika – Slušni aparati – 4. dio: Sustavi s indukcijskom petljom za pomagala za poboljšanje slušanja – Jačina magnetskog polja (IEC 60118-4:2006; EN 60118-4:2006)  
Electroacoustics – Hearing aids – Part 4: Induction loop systems for hearing aid purposes – Magnetic field strength (IEC 60118-4:2006; EN 60118-4:2006)  
- zamijenjena s: HRN EN 60118-4:2015
- HRN EN 60118-6:2002 en  
Slušna pomagala – 6. dio: Značajke električnih ulaznih krugova slušnih pomagala (IEC 60118-6:1999; EN 60118-6:1999)  
Hearing aids – Part 6: Characteristics of electrical input circuits for hearing aids (IEC 60118-6:1999; EN 60118-6:1999)  
- zamijenjena s: HRN EN 60118-0:2015
- HRN IEC 60118-11:2002 en  
Slušna pomagala – 11. dio: Znakovi i druge oznake na slušnim pomaglima i pripadajućoj opremi (IEC 60118-11:1983)  
Hearing aids – Part 11: Symbols and other markings on hearing aids and related equipment (IEC 60118-11:1983)  
- bez zamjene
- HRN IEC 60126:2002 en  
Referentni spojnik prema IEC-u za mjerenje slušnih pomagala sa slušalicama spregnutima s ušima preko ušnih uložaka (IEC 60126:1973)  
IEC reference coupler for the measurement of hearing aids using earphones coupled to the ear by means of ear inserts (IEC 60126:1973)  
- zamijenjena s: HRN EN 60318-5:2008
- HRN EN 60318-3:2002 en  
Elektroakustika – Simulatori ljudske glave i uha – 3. dio: Akustički spojnik za umjeravanje naušnih slušalica za mjerila sluha (IEC 60318-3:1998; EN 60318-3:1998)  
Electroacoustics – Simulators of human head and ear – Part 3: Acoustic coupler for the calibration of supra-aural earphones used in audiometry (IEC 60318-3:1998; EN 60318-3:1998)  
- zamijenjena s: HRN EN 60318-3:2015
- HRN IEC 60373:2002 en  
Mehanički spojnik za mjerenja na vibratorima za koštanu vodljivost (IEC 60373:1990)  
Mechanical coupler for measurements on bone vibrators (IEC 60373:1990)  
- zamijenjena s: HRN EN 60318-6:2010
- HRN EN 60601-2-66:2013 en  
Medicinska električna oprema – Dio 2-66: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke slušnih instrumenata i sustava slušnih instrumenata (IEC 60601-2-66:2012; EN 60601-2-66:2013)  
Medical electrical equipment – Part 2-66: Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems (IEC 60601-2-66:2012; EN 60601-2-66:2013)  
- zamijenjena s: HRN EN 60601-2-66:2015
- HRN EN 60645-1:2002 en  
Elektroakustika – Mjerila sluha 1. dio: Mjerila sluha s čistim tonom (IEC 60645-1:2001; EN 60645-1:2001)  
Electroacoustics – Audiological equipment – Part 1: Pure-tone audiometers (IEC 60645-1:2001; EN 60645-1:2001)  
- zamijenjena s: HRN EN 60645-1:2015
- HRN EN 60645-4:1998 en  
Audiometri – 4. dio: Oprema za audiometriju u proširenom visokofrekvencijskom području (IEC 60645-4:1994; EN 60645-4:1995)  
Audiometers – Part 4: Equipment for extended high-frequency audiometry (IEC 60645-4:1994; EN 60645-4:1995)  
- zamijenjena s: HRN EN 60645-1:2015
- HRN IEC 60655:2002 en  
Iznosi razlika razina osjetljivosti u slobodnom polju i tlačne osjetljivosti za etalonske jedno-inčne kondenzatorske mikrofone (IEC 60655:1979)  
Values for the difference between free-field and pressure sensitivity levels for one-inch standard condenser microphones (IEC 60655:1979)  
- zamijenjena s: HRS IEC/TS 61094-7:2010
- HRN IEC 60711:2002 en  
Simulator začepljenih ušiju za mjerenje slušalica spregnutih s ušima preko ušnih umetaka (IEC 60711:1981)  
Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts (IEC 60711:1981)  
- zamijenjena s: HRN EN 60318-4:2012
- HRN IEC 60866:2002 en  
Značajke i umjeravanje hidrofona u radnom frekvencijskom području od 0,5 MHz do 15 MHz (IEC 60866:1987)  
Characteristics and calibration of hydrophones for operation in the frequency range 0.5 MHz to 15 MHz (IEC 60866:1987)  
- zamijenjena s: HRN EN 62127-1:2008, HRN EN 62127-2:2008, HRN EN 62127-3:2008
- HRN IEC/TR 60959:2002 en  
Privremeni simulator glave i trupa za akustička mjerenja na slušnim pomaglima sa zračnom vodljivošću (IEC/TR 60959:1990)  
Provisional head and torso simulator for acoustic measurements on air conduction hearing aids (IEC/TR 60959:1990)  
- bez zamjene
- HRN EN 61094-3:1998 en  
Mjerni mikrofoni – 3. dio: Apsolutno umjeravanje laboratorijskih etalonskih mikrofona metodom recipročnosti u slobodnom polju (IEC 61094-3:1995; EN 61094-3:1995)  
Measurement microphones – Part 3: Primary method for free-field calibration of laboratory standard microphones by the reciprocity technique (IEC 61094-3:1995; EN 61094-3:1995)  
- zamijenjena s: HRN EN 61094-3:2016
- HRN EN 61094-5:2002 en  
Mjerni mikrofoni – 5. dio: Metode tlačnog umjeravanja mikrofona – radnih etalona, usporedbom (IEC 61094-5:2001; EN 61094-5:2001)  
Measurement microphones – Part 5: Methods for pressure calibration of working standard microphones by comparison (IEC 61094-5:2001; EN 61094-5:2001)  
- zamijenjena s: HRN EN 61094-5:2016

HRN EN 61260:1998 en  
Elektroakustika – Filtri kojima je širina pojasa oktava ili dio oktave (IEC 61260:1995; EN 61260:1995)  
Electroacoustics – Octave-band and fractional-octave-band filters (IEC 61260:1995; EN 61260:1995)  
- zamijenjena s: HRN EN 61260-1:2014, HRN EN 61260-2:2016, HRN EN 61260-3:2016

HRN EN 61260:1998/A1:2002 en  
Elektroakustika – Filtri kojima je širina pojasa oktava ili dio oktave (IEC 61260:1995/A1:2001; EN 61260:1995/A1:2001)  
Electroacoustics – Octave-band and fractional-octave-band filters (IEC 61260:1995/A1:2001; EN 61260:1995/A1:2001)  
- zamijenjena s: HRN EN 61260-1:2014, HRN EN 61260-2:2016, HRN EN 61260-3:2016

HRN EN 61669:2002 en  
Elektroakustika – oprema za mjerenje akustičkih značajki slušnih pomagala u stvarnim uvjetima u uhu (IEC 61669:2001; EN 61669:2001)  
Electroacoustics – Equipment for the measurement of real-ear acoustical characteristics of hearing aids (IEC 61669:2001; EN 61669:2001)  
- zamijenjena s: HRN EN 61669:2016

HRN EN 61672-2:2004 en  
Elektroakustika – Zvukomjeri – 2. dio: Tipno ispitivanje (IEC 61672-2:2003; EN 61672-2:2003)  
Electroacoustics – Sound level meters – Part 2: Pattern evaluation tests (IEC 61672-2:2003; EN 61672-2:2003)  
- zamijenjena s: HRN EN 61672-2:2014

HRN EN 61672-3:2008 en  
Elektroakustika – Zvukomjeri – 3. dio: Periodična ispitivanja (IEC 61672-3:2006; EN 61672-3:2006)  
Electroacoustics – Sound level meters – Part 3: Periodic tests (IEC 61672-3:2006; EN 61672-3:2006)  
- zamijenjena s: HRN EN 61672-3:2014

HRN EN 62489-2:2012 en  
Elektroakustika – Sustavi s indukcijskim petljama kao pomoć pri slušanju u audiofrekvencijskom području – 2. dio: Metode za računanje i mjerenje isijavanja nisko-frekvencijskih magnetskih polja iz perleja radi osiguranja usklađenosti s vrijednostima iz uputa o granicama izloženosti za čovjeka (IEC 62489-2:2011; EN 62489-2:2011)  
Electroacoustics – Audio-frequency induction loop systems for assisted hearing – Part 2: Methods of calculating and measuring the low-frequency magnetic field emissions from the loop for assessing conformity with guidelines on limits for human exposure (IEC 62489-2:2011; EN 62489-2:2011)  
- zamijenjena s: HRN EN 62489-2:2015

## HRN/TO Z1, Informacijska tehnologija

HRN EN 16234-1:2016 en  
Okvir e-kompetencija (e-CF) – 1. dio: Okvir (EN 16234-1:2016)  
E-Competence Framework (e-CF) – Part 1: Framework (EN 16234-1:2016)  
- zamijenjena s: HRN EN 16234-1:2020

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

HRN EN ISO 3233-1:2013 en  
Boje i lakovi – Određivanje volumnog postotka nehlapljivih tvari – 1. dio: Metoda s upotrebom presvučene ispitne ploče za određivanje nehlapljivih tvari i određivanje gustoće suhog filma po Arhimedovom načelu (ISO 3233-1:2013; EN ISO 3233-1:2013)  
Paints and varnishes – Determination of the percentage volume of non-volatile matter – Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry film density by the Archimedes principle (ISO 3233-1:2013; EN ISO 3233-1:2013)  
- zamijenjena s: HRN EN ISO 3233-1:2020

HRN EN ISO 6504-3:2008 en  
Boje i lakovi – Određivanje pokrivne moći – 3. dio: Određivanje kontrasta neprozirnost svijetlih boja kod stalne brzine prskanja (ISO 6504-3:2006; EN ISO 6504-3:2007)  
Paints and varnishes – Determination of hiding power – Part 3: Determination of contrast ratio of light-coloured paints at a fixed spreading rate (ISO 6504-3:2006; EN ISO 6504-3:2007)  
- zamijenjena s: HRN EN ISO 6504-3:2020

## HZN/TU F1, Osnovne norme 1

HRN EN 1047-2:2013 en  
Jedinice za sigurno pohranjivanje – Klasifikacija i metode ispitivanja vatrootpornosti – 2. dio: Prostorije za zaštitu podataka i spremnik podataka (EN 1047-2:2009+A1:2013)  
Secure storage units – Classification and methods of test for resistance to fire – Part 2: Data rooms and data container (EN 1047-2:2009+A1:2013)  
- zamijenjena s: HRN EN 1047-2:2020

HRN EN 1143-1:2013 en  
Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – 1. dio: Sefovi, sefovi bankomata, trezorska vrata i trezori (EN 1143-1:2012)  
Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms (EN 1143-1:2012)  
- zamijenjena s: HRN EN 1143-1:2020

HRN EN 1300:2014 en  
Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje (EN 1300:2013)  
Secure storage units – Classification for high security locks according to their resistance to unauthorized opening (EN 1300:2013)  
- zamijenjena s: HRN EN 1300:2020

## HZN/TU I2, Strojarstvo 2

HRN EN 12643:2014 en  
Strojevi za zemljane radove – Strojevi s gumenim kotačima – Zahtjevi za upravljanje (ISO 5010:1992, MOD; EN 12643:2014)  
Earth-moving machinery – Rubber-tyred machines – Steering requirements (ISO 5010:1992, MOD; EN 12643:2014)  
- zamijenjena s: HRN EN ISO 5010:2020

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

HRN EN 2516:2008 en  
Nizovi o zrakoplovstvu – Pasivizacija čelika otpornih na koroziju i dekontaminacija legura na bazi nikla (EN 2516:1997)  
Aerospace series – Passivation of corrosion resisting steels and decontamination of nickel base alloys (EN 2516:1997)  
- zamijenjena s: HRN EN 2516:2020

HRN EN 2878:2018 en  
Aerospace series – Nuts, anchor, self-locking, air resistant, sealing, floating, two lug, with counterbore, in alloy steel, cadmium plated, MoS2 lubricated – Classification: 900 MPa (at ambient temperature)/235 °C (EN 2878:2018)  
- zamijenjena s: HRN EN 2878:2020

HRN EN 2880:2018 en  
Aerospace series – Nuts, anchor, self-locking, fuel resistant, sealing, floating, two lug, with counterbore, in alloy steel, cadmium plated, MoS2 lubricated – Classification: 900 MPa (at ambient temperature)/120 °C (EN 2880:2018)  
- zamijenjena s: HRN EN 2880:2020

HRN EN 2943:2008 en  
Nizovi o zrakoplovstvu – Zatici, sa vijčastim navojem, sa spiralnim svitkom, samozatvarajući – Tehničke specifikacije (EN 2943:1998)  
Aerospace series – Inserts, screw thread, helical coil, self locking – Technical specification (EN 2943:1998)  
- zamijenjena s: HRN EN 2943:2020

HRN EN 3155-003:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 003. dio: Kontakti, električni, ženski, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-003:2005)  
Aerospace series – Electrical contacts used in elements of connection – Part 003: Contacts, electrical, female, type A, crimp, class S – Product standard (EN 3155-003:2005)  
- zamijenjena s: HRN EN 3155-003:2020

HRN EN 3155-016:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 016. dio: Kontakti, električni, muški, tip A, za krimpovanje, razreda S – Norma za proizvod (EN 3155-016:2006)  
Aerospace series – Electrical contacts used in elements of connection – Part 016: Contacts, electrical, male, type A, crimp, class S – Product standard (EN 3155-016:2006)  
- zamijenjena s: HRN EN 3155-016:2020

- HRN EN 3155-044:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 044. dio: Kontakti, električni, muški 044, tip A, dvostruko krimpni, razreda T – Norma za proizvod (EN 3155-044:2007)  
Aerospace series – Electrical contacts used in elements of connection – Part 044: Contacts, electrical, male 044, type A, double crimping, class T – Product standard (EN 3155-044:2007)  
- zamijenjena s: HRN EN 3155-044:2020
- HRN EN 3155-045:2008 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 045. dio: Kontakti, električni, ženski, tip A, dvostruko krimpni, razreda T – Norma za proizvod (EN 3155-045:2006)  
Aerospace series – Electrical contacts used in elements of connection – Part 045: Contacts, electrical, female, type A, double crimping, class T – Product standard (EN 3155-045:2006)  
- zamijenjena s: HRN EN 3155-045:2020
- HRN EN 3155-076:2012 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 076. dio: Kontakti, električni, muški, tip A, za krimpnanje, razreda R – Norma za proizvod (EN 3155-076:2012)  
Aerospace series – Electrical contacts used in elements of connection – Part 076: Contacts, electrical, male, type A, crimp, class R – Product standard (EN 3155-076:2012)  
- zamijenjena s: HRN EN 3155-076:2020
- HRN EN 3155-077:2012 en  
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 077. dio: Kontakti, električni, ženski, tip A, za krimpnanje, razreda R – Norma za proizvod (EN 3155-077:2012)  
Aerospace series – Electrical contacts used in elements of connection – Part 077: Contacts, electrical, female, type A, crimp, class R – Product standard (EN 3155-077:2012)  
- zamijenjena s: HRN EN 3155-077:2020
- HRN EN 3155-083:2015 en  
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 083: Kontakti, električni, ženski, tip A, za krimpnanje, razreda S, veličina 8 – Norma za proizvod (EN 3155-083:2015)  
Aerospace series – Electrical contacts used in elements of connection – Part 083: Contact, electrical, female, type A, crimp, class S, size 8 – Product standard (EN 3155-083:2015)  
- zamijenjena s: HRN EN 3155-083:2020
- HRN EN 3278:2012 en  
Nizovi o zrakoplovstvu – Navlake, cjevaste, s izbočenom glavom, od čelika otpornog na koroziju, pasivizirane (debljine zida 0,25 mm) (EN 3278:2012)  
Aerospace series – Sleeves, tubular, protruding head, in corrosion resisting steel, passivated (0,25 mm wall thickness) (EN 3278:2012)  
- zamijenjena s: HRN EN 3278:2020
- HRN EN 3660-003:2011 en  
Nizovi o zrakoplovstvu – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – 003. dio: Uvodna matica, tip A za EN 2997 i EN 4067 – Norma za proizvod (EN 3660-003:2009)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 003: Grommet nut, style A for EN 2997 and EN 4067 – Product standard (EN 3660-003:2009)  
- zamijenjena s: HRN EN 3660-003:2019
- HRN EN 3660-004:2018 en  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 004: Kabelski izlaz, tip A, ravni, nebrtvljeni sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-004:2018)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 004: Cable outlet, style A, straight, unsealed with clamp strain relief – Product standard (EN 3660-004:2018)  
- zamijenjena s: HRN EN 3660-004:2020
- HRN EN 3660-005:2018 en  
Zrakoplovstvo – Oprema utičnice kabela za kružne i kvadratne električne i optičke spojnice – Dio 005: Kabelski izlaz, tip A, 90°, nebrtvljen sa spojnicom kabela za rasterećenje – Norma za proizvod (EN 3660-005:2018)  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 005: Cable outlet, style A, 90°, unsealed with clamp strain relief – Product standard (EN 3660-005:2018)  
- zamijenjena s: HRN EN 3660-005:2020
- HRN EN 3740:2008 en  
Nizovi o zrakoplovstvu – Matice, s jačim strukom, tanke šesterokutne glave, struk s uskom tolerancijom, kratki navoj, od legure titana, anodizirani, podmazani s MoS2 – Klasifikacija: 1100 MPa (pri temperaturi okoline)/315 °C (EN 3740:1996)  
Aerospace series – Bolts, shouldered, thin hexagonal head, close tolerance shank, short thread, in titanium alloy, anodized, MoS2 lubricated – Classification: 1100 MPa (at ambient temperature)/315 °C (EN 3740:1996)  
- zamijenjena s: HRN EN 3740:2020
- HRN EN 4161:2011 en  
Nizovi o zrakoplovstvu – Vijci, s ravnom glavom, s ujednačenim križnim urezom, normalnog struka grube tolerancije, dugog navoja, od legure čelika, prevučeni kadmijem – Klasifikacija: 1100 MPa (pri temperaturi okoline) / 235 °C (EN 4161:2009+AC:2010)  
Aerospace series – Screws, pan head, offset cruciform recess, coarse tolerance normal shank, long thread, in alloy steel, cadmium plated – Classification: 1100 MPa (at ambient temperature) / 235 °C (EN 4161:2009+AC:2010)  
- zamijenjena s: HRN EN 4161:2020
- HRN EN 4165-022:2008 en  
Nizovi o zrakoplovstvu – Spojnice, električne, pravokutne, modularne – Stalna radna temperatura 175 °C – 022. dio: Alat za umetanje/izvlačenje za uklanjanje modula – Norma za proizvod (EN 4165-022:2005)  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 022: Insertion/extraction tool for removal of modules – Product standard (EN 4165-022:2005)  
- zamijenjena s: HRN EN 4165-022:2020
- HRN EN 4612-006:2012 en  
Nizovi o zrakoplovstvu – Kabeli, električni, opće namjene, jednožilni i višezilni sklop – XLETFE porodica – Obloženi ili oklopljeni i obloženi – 006. dio: Bakar prevučeni kositrom – Radna temperatura između – 65 °C i 135 °C – Dvostruka izolacija zida za upotrebu na otvorenom, s oblogom i oklopom (opleten) – Ispisivanje pomoću UV lasera – Norma za proizvod (EN 4612-006:2011)  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Jacketed or screened and jacketed – Part 006: Tin plated copper – Operating temperatures, between – 65 °C and 135 °C – Dual extruded wall for open applications, with jacket and screen (braid) – UV laser printable – Product standard (EN 4612-006:2011)  
- zamijenjena s: HRN EN 4612-006:2020
- HRN EN 4726:2019 en  
Zrakoplovstvo – Parametri za prihvaćanje estetskih inačica za svu vidljivu opremu ugrađenu u zrakoplovnu kabinu u svim varijantama ugovora (EN 4726:2018)  
Aerospace series – Acceptance parameters of aesthetical variations for all visible equipment installed in aircraft cabins under all contractual variations (EN 4726:2018)  
- zamijenjena s: HRN EN 4726:2020

## HZNTU V1, Elektronika 1

- HRN EN 60097:2008 en  
Grid systems for printed circuits (IEC 60097:1991; EN 60097:1993)  
- bez zamjene
- HRN EN 60154-2:2008 en  
Flanges for waveguides – Part 2: Relevant specifications for flanges for ordinary rectangular waveguides (IEC 60154-2:1980+am1:1997; EN 60154-2:1997+A1:1997)  
- zamijenjena s: HRN EN 60154-2:2016
- HRN EN 60191-6-13:2008 en  
Mechanical standardization of semiconductor devices – Part 6-13: Design guideline of open-top-type sockets for Fine-pitch Ball Grid Array and Fine-pitch Land Grid Array (FBGA/FLGA) (IEC 60191-6-13:2007; EN 60191-6-13:2007)  
- zamijenjena s: HRN EN 60191-6-13:2016

HRN EN 60205:2009 en  
Calculation of the effective parameters of magnetic piece parts (IEC 60205:2006; EN 60205:2006)  
- zamijenjena s: HRN EN 60205:2017

HRN EN 60205:2009/A1:2010 en  
Calculation of the effective parameters of magnetic piece parts (IEC 60205:2006/am1:2009; EN 60205:2006/A1:2009)  
- zamijenjena s: HRN EN 60205:2017

HRN EN 60794-3-20:2009 en  
Optical fibre cables – Part 3-20: Outdoor cables – Family specification for self-supporting aerial telecommunication cables (IEC 60794-3-20:2009; EN 60794-3-20:2009)  
- zamijenjena s: HRN EN 60794-3-20:2016

HRN EN 60794-5:2008 en  
Optical fibre cables – Part 5: Sectional specification – Microduct cabling for installation by blowing (IEC 60794-5:2006; EN 60794-5:2007)  
- zamijenjena s: HRN EN 60794-5:2016

HRN EN 60869-1:2014 en  
Fibre optic interconnecting devices and passive components – Fibre optic passive power control devices – Part 1: Generic specification (IEC 60869-1:2012; EN 60869-1:2013)  
- zamijenjena s: HRN EN IEC 60869-1:2019

HRN EN 60966-2-5:2010 en  
Radio frequency and coaxial cable assemblies – Part 2-5: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 MHz to 1000 MHz, IEC 61169-2 connectors (IEC 60966-2-5:2009; EN 60966-2-5:2009)  
- zamijenjena s: HRN EN 60966-2-5:2017

HRN EN 60966-2-6:2010 en  
Radio frequency and coaxial cable assemblies – Part 2-6: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 MHz to 3000 MHz, IEC 61169-24 connectors (IEC 60966-2-6:2009; EN 60966-2-6:2009)  
- zamijenjena s: HRN EN 60966-2-6:2017

HRN EN 61240:2014 en  
Piezoelectric devices – Preparation of outline drawings of surface-mounted devices (SMD) for frequency control and selection – General rules (IEC 61240:2012; EN 61240:2012)  
- zamijenjena s: HRN EN 61240:2017

HRN EN 61290-4-1:2012 en  
Optical amplifiers – Test methods – Part 4-1: Gain transient parameters – Two-wavelength method (IEC 61290-4-1:2011; EN 61290-4-1:2011)  
- zamijenjena s: HRN EN 61290-4-1:2017

HRN EN 61332:2008 en  
Soft ferrite material classification (IEC 61332:2005; EN 61332:2005)  
- zamijenjena s: HRN EN 61332:2017

HRN EN 61340-5-1:2009 en  
Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements (IEC 61340-5-1:2007; EN 61340-5-1:2007)  
- zamijenjena s: HRN EN 61340-5-1:2016

HRN EN 61345:2008 en  
UV test for photovoltaic (PV) modules (IEC 61345:1998; EN 61345:1998)  
- bez zamjene

HRN EN 61605:2008 en  
Fixed inductors for use in electronic and telecommunication equipment – Marking codes (IEC 61605:2005; EN 61605:2005)  
- zamijenjena s: HRN EN 61605:2017

HRN EN 61727:2008 en  
Photovoltaic (PV) systems – Characteristics of the utility interface (IEC 61727:1995; EN 61727:1995)  
- bez zamjene

HRN EN 62014-1:2008 en  
Electronic design automation libraries – Part 1: Input/Output buffer information specifications (IBIS version 3.2) (IEC 62014-1:2001; EN 62014-1:2002)  
- bez zamjene

HRN EN 62108:2008 en  
Concentrator photovoltaic (CPV) modules and assemblies – Design qualification and type approval (IEC 62108:2007; EN 62108:2008)  
- zamijenjena s: HRN EN 62108:2016

HRN EN 62276:2014 en  
Single crystal wafers for surface acoustic wave (SAW) device applications – Specifications and measuring methods (IEC 62276:2012; EN 62276:2013)  
- zamijenjena s: HRN EN 62276:2016

## 1.6 Ispravci hrvatskih norma

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

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

- **umjesto**

HRN EN 862:2016  
Ambalaža – **Pakiranje koje djeci otežava otvaranje** – Zahtjevi i postupci ispitivanja **ambalaže** za jednokratno otvaranje nefarmaceutskih proizvoda (EN 862:2016)  
Packaging – Child-resistant packaging – Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products (EN 862:2016)

- **treba biti**

HRN EN 862:2016  
Ambalaža – **Ambalaža koja djeci otežava otvaranje** – Zahtjevi i postupci ispitivanja **pakovina** za jednokratno otvaranje nefarmaceutskih proizvoda (EN 862:2016)  
Packaging – Child-resistant packaging – Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products (EN 862:2016)

### HZN/TO 557, *Zaštitna odjeća*

- **umjesto**

HRN EN ISO 11393-6:2019  
Zaštitna odjeća za korisnike ručnih lančanih pila – 6. dio: Zahtjevi za svojstva i metode ispitivanja štitnika za gornji dio tijela (ISO 11393-6:2018; EN ISO 11393-6:2019)  
Protective clothing for users of hand-held chainsaws – Part 6: Performance requirements and test methods for upper body protectors (ISO 11393-6:2018; EN ISO 11393-6:2019)

- **treba biti**

HRN EN ISO 11393-6:2019  
Zaštitna odjeća za korisnike ručnih lančanih pila – 6. dio: Zahtjevi za svojstva i metode ispitivanja štitnika za gornji dio tijela (ISO 11393-6:2018, **ispravljena verzija 2019-11**; EN ISO 11393-6:2019)  
Protective clothing for users of hand-held chainsaws – Part 6: Performance requirements and test methods for upper body protectors (ISO 11393-6:2018, **Corrected version 2019-11**; EN ISO 11393-6:2019)

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

U HZN Glasilu broj 12/2019, rubrika 1.6 Ispravci hrvatskih norma, za HZN/TO 561 pogrešno je objavljen ispravak za norme niza HRN EN 13480:2017.

Te su norme još uvijek na snazi kao hrvatske norme, a nova izdanja tih norma objavljuju se kao zasebni dokumenti.

HRN EN 13480-1:2017  
Metalni industrijski cjevovodi – 1. dio: Općenito (EN 13480-1:2017)  
Metallic industrial piping – Part 1: General (EN 13480-1:2017)

HRN EN 13480-2:2017  
Metalni industrijski cjevovodi – 2. dio: Materijali (EN 13480-2:2017)  
Metallic industrial piping – Part 2: Materials (EN 13480-2:2017)

HRN EN 13480-5:2017  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje  
(EN 13480-5:2017)  
Metallic industrial piping – Part 5: Inspection and testing  
(EN 13480-5:2017)

HRN EN 13480-6:2017  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode (EN 13480-6:2017)  
Metallic industrial piping – Part 6: Additional requirements for buried piping (EN 13480-6:2017)

HRN EN 13480-8:2017  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura (EN 13480-8:2017)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2017)

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

• **umjesto**  
HRN EN 50388:2013  
Željeznički sustav – Opskrba električnom energijom i željeznička vozila – Tehnički kriteriji za koordinaciju između sustava napajanja (podstanica) i željezničkih vozila radi postizanja interoperabilnosti (**EN 50388:2012+AC:2012**)  
Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability (**EN 50388:2012+AC:2012**)

• **treba biti**  
HRN EN 50388:2013  
Željeznički sustav – Opskrba električnom energijom i željeznička vozila – Tehnički kriteriji za koordinaciju između sustava napajanja (podstanica) i željezničkih vozila radi postizanja interoperabilnosti (**EN 50388:2012**)  
Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability (**EN 50388:2012**)

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

• **umjesto**  
HRN EN IEC 63009:2019  
Ultrazvuk – **Psihoterapijski sustavi** – Značajke polja i mjerne metode u frekvencijskom području 20 kHz do 500 kHz (IEC 63009:2019; EN IEC 63009:2019)  
Ultrasonics – Physiotherapy systems – Field specifications and methods of measurement in the frequency range 20 kHz to 500 kHz (IEC 63009:2019; EN IEC 63009:2019)

• **treba biti**  
HRN EN IEC 63009:2019  
Ultrazvuk – **Sustavi za fizikalnu terapiju** – Značajke polja i mjerne metode u frekvencijskom području 20 kHz do 500 kHz (IEC 63009:2019; EN IEC 63009:2019)  
Ultrasonics – Physiotherapy systems – Field specifications and methods of measurement in the frequency range 20 kHz to 500 kHz (IEC 63009:2019; EN IEC 63009:2019)

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

• **umjesto**  
HRN EN ISO 20696:2018  
Sterilni kateteri za mokraćnu cijev za jednokratnu upotrebu (ISO 20696:2018, ispravljena verzija **2018-09**; EN ISO 20696:2018)  
Sterile urethral catheters for single use (ISO 20696:2018, Corrected version **2018-09**; EN ISO 20696:2018)

• **treba biti**  
HRN EN ISO 20696:2018  
Sterilni kateteri za mokraćnu cijev za jednokratnu upotrebu (ISO 20696:2018, ispravljena verzija **2019-12**; EN ISO 20696:2018)  
Sterile urethral catheters for single use (ISO 20696:2018, Corrected version **2019-12**; EN ISO 20696:2018)

## **1.10 Prijevodi hrvatskih normativnih dokumenata**

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

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

HRN EN 681-2:2003 hr-en pr-pp  
Elastomerne brtve – Zahtjevi za materijal brtva za cjevovode namijenjene za transport vode i odvodnju – 2. dio: Plastomerni elastomeri (EN 681-2:2000+A1:2002)  
Elastomeric seals – Material requirements for pipe joint seals used in water and drainage applications – Part 2: Thermoplastic elastomers (EN 681-2:2000+A1:2002)

HRN EN 681-2:2003/A2:2007 hr-en pr-pp  
Elastomerne brtve – Zahtjevi za materijal brtva za cjevovode namijenjene za transport vode i odvodnju – 2. dio: Plastomerni elastomeri (EN 681-2:2000/A2:2005)  
Elastomeric seals – Material requirements for pipe joint seals used in water and drainage applications – Part 2: Thermoplastic elastomers (EN 681-2:2000/A2:2005)



## 2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju

### Europska normizacija (CEN)

| Oznaka norme  | Naslov norme  | ICS                     | Datum objave |
|---------------|---|-------------------------|--------------|
| EN 510        | Specification for protective clothing for use where there is a risk of entanglement with moving parts   | 13.340.10               | 2019-11      |
| EN 1015-11    | Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar   | 91.100.15;<br>91.100.30 | 2019-11      |
| EN 1130       | Children's furniture – Cribs – Safety requirements and test methods   | 97.140; 97.190          | 2019-11      |
| EN 1269       | Textile floor coverings – Assessment of impregnations in needled floor coverings by means of a soiling test   | 97.150                  | 2019-11      |
| EN 1366-12+A1 | Fire resistance tests for service installations – Part 12: Non-mechanical fire barrier for ventilation ductwork   | 13.220.50;<br>91.140.30 | 2019-11      |
| EN 1971-1     | Copper and copper alloys – Eddy current test for measuring defects on seamless round copper and copper alloy tubes – Part 1: Test with an encircling test coil on the outer surface | 23.040.15;<br>77.150.30 | 2019-11      |
| EN 1971-2     | Copper and copper alloys – Eddy current test for measuring defects on seamless round copper and copper alloy tubes – Part 2: Test with an internal probe on the inner surface       | 23.040.15;<br>77.150.30 | 2019-11      |
| EN 2002-16    | Aerospace series – Metallic materials – Test methods – Part 16: Non-destructive testing – Penetrant testing   | 49.025.05;<br>49.025.15 | 2019-11      |
| EN 2002-21    | Aerospace series – Metallic materials – Test methods – Part 21: Radiographic testing of castings  | 49.025.05;<br>49.025.15 | 2019-11      |
| EN 2400       | Aerospace series – Heat resisting nickel base alloy NI-P96-HT – Cold drawn and precipitation treated – Wire – Draht $D \leq 10$ mm  | 49.025.15               | 2019-11      |
| EN 2943       | Aerospace series – Inserts, MJ and M screw threads, helical coil – Technical specification  | 49.030.30               | 2019-11      |
| EN 3468       | Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Softened – $500 \text{ MPa} \leq R_m \leq 700 \text{ MPa}$ – Forgings – $D_e \leq 100$ mm                                  | 49.025.10               | 2019-11      |
| EN 3481       | Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Annealed – Reference heat treatment: softened – Hollow bars – $5 \text{ mm} \leq a \leq 12 \text{ mm}$                     | 49.025.10               | 2019-11      |
| EN 3482       | Aerospace series – Steel X8CrNiTi18-10 (1.4878/1.4544) – Annealed – Reference heat treatment: softened – Forging stock – $D_e \leq 100$ mm  | 49.025.10               | 2019-11      |
| EN 4609       | Aerospace series – Spiral drive recesses for threaded fasteners – Geometrical definition and technical requirements   | 49.030.20               | 2019-11      |
| EN 9138       | Aerospace Series – Quality Management Systems – Statistical Product- Acceptance Requirements  | 03.120.10; 49.020       | 2019-11      |

| Oznaka norme  | Naslov norme   | ICS   | Datum objave |
|---------------|--|---|--------------|
| EN 13422      | Vertical road signs – Portable deformable warning devices and delineators – Portable road traffic signs – Cones and cylinders  | 93.080.30                                     | 2019-11      |
| EN 13819-3    | Hearing protectors – Testing – Part 3: Supplementary acoustic test methods   | 13.340.20                                     | 2019-11      |
| EN 14752      | Railway applications – Bodyside entrance systems for rolling stock   | 45.140  | 2019-11      |
| EN 14901-1+A1 | Ductile iron pipes, fittings and accessories – Requirements and test methods for organic coatings of ductile iron fittings and accessories – Part 1: Epoxy coating (heavy duty)  | 23.040.10;<br>23.040.40;<br>25.220.60         | 2019-11      |
| EN 14901-2    | Ductile iron pipes, fittings and accessories – Requirements and test methods for organic coatings of ductile iron fittings and accessories – Part 2: Thermoplastic acid modified polyolefin coating (TMPO)   | 23.040.10;<br>23.040.40;<br>25.220.60         | 2019-11      |
| EN 15494      | Candles – Product safety labels  | 71.100.99                                     | 2019-11      |
| EN 15898      | Conservation of cultural heritage – Main general terms and definitions   | 01.040.97; 97.195                             | 2019-11      |
| EN 16090      | Copper and copper alloys – Estimation of average grain size by ultrasound  | 77.120.30                                     | 2019-11      |
| EN 16185-2+A1 | Railway applications – Braking systems of multiple unit trains – Part 2: Test methods  | 45.040  | 2019-11      |
| EN 16207+A1   | Railway applications – Braking – Functional and performance criteria of Magnetic Track Brake systems for use in railway rolling stock  | 45.060.01                                     | 2019-11      |
| EN 16214-1+A1 | Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology   | 01.040.27;<br>01.040.75; 27.190;<br>75.160.40 | 2019-11      |
| EN 16214-4+A1 | Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach | 27.190; 75.160.40                             | 2019-11      |
| CEN/TS 16459  | External fire exposure of roofs and roof coverings – Extended application of test results from CEN/TS 1187   | 13.220.50;<br>91.060.20                       | 2019-11      |
| EN 16809-1    | Thermal insulation products of buildings – In-situ formed products from loose-fill expanded polystyrene (EPS) beads and bonded expanded polystyrene beads – Part 1: Specification for the bonded and loose-fill products before installation             | 91.100.60                                     | 2019-11      |
| EN 16931-1+A1 | Electronic invoicing – Part 1: Semantic data model of the core elements of an electronic invoice   | 35.240.20;<br>35.240.63                       | 2019-11      |

| Oznaka norme   | Naslov norme  | ICS               | Datum objave |
|----------------|---|-------------------|--------------|
| EN 17122       | Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the veterinary area – Test method and requirements – Phase 2, step 2 | 11.080.20         | 2019-11      |
| EN 17194       | Animal feeding stuffs: Methods of sampling and analysis – Determination of Deoxynivalenol, Aflatoxin B1, Fumonisin B1 & B2, T-2 & HT-2 toxins, Zearalenone and Ochratoxin A in feed materials and compound feed by LC-MS/MS                   | 65.120            | 2019-11      |
| EN 17266       | Foodstuffs – Determination elements and their chemical species – Determination of organomercury in seafood by elemental mercury analysis  | 67.120.30         | 2019-11      |
| EN 17269       | Health informatics – The International Patient Summary  | 35.240.80         | 2019-11      |
| CEN/TS 17385   | Method for condition assessment of immobile constructed assets  | 03.100.01         | 2019-11      |
| CEN/TS 17395   | Intelligent transport systems – eSafety – eCall for automated and autonomous vehicles   | 35.240.60         | 2019-11      |
| EN 50465/A1    | Gas appliances – Combined heat and power appliance of nominal heat input inferior or equal to 70 kW   | 27.070; 97.100.20 | 2019-11      |
| EN 60644/A1    | Specification for high-voltage fuse-links for motor circuit applications (IEC 60644:2009/A1:2019)   | 29.120.50         | 2019-11      |
| EN ISO 389-7   | Acoustics – Reference zero for the calibration of audiometric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions (ISO 389-7:2019)   | 13.140            | 2019-11      |
| EN ISO 1833-15 | Textiles – Quantitative chemical analysis – Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content) (ISO 1833-15:2019)  | 59.060.01         | 2019-11      |
| EN ISO 2440    | Flexible and rigid cellular polymeric materials – Accelerated ageing tests (ISO 2440:2019)  | 83.100            | 2019-11      |
| EN ISO 4180    | Packaging – Complete, filled transport packages – General rules for the compilation of performance test schedules (ISO 4180:2019)   | 55.180.40         | 2019-11      |
| EN ISO 8504-1  | Preparation of steel substrates before application of paints and related products – Surface preparation methods – Part 1: General principles (ISO 8504-1:2019)  | 25.220.10         | 2019-11      |
| EN ISO 8504-2  | Preparation of steel substrates before application of paints and related products – Surface preparation methods – Part 2: Abrasive blast-cleaning (ISO 8504-2:2019)   | 25.220.10         | 2019-11      |
| EN ISO 9090    | Gas tightness of equipment for gas welding and allied processes (ISO 9090:2019)   | 25.160.30         | 2019-11      |

| Oznaka norme      | Naslov norme  | ICS                     | Datum objave |
|-------------------|---|-------------------------|--------------|
| EN ISO 9693       | Dentistry–Compatibility testing for metal-ceramic and ceramic-ceramic systems (ISO 9693:2019)   | 11.060.10               | 2019-11      |
| EN ISO 11135/A1   | Sterilization of health-care products – Ethylene oxide – Requirements for the development, validation and routine control of a sterilization process for medical devices – Amendment 1: Revision of Annex E, Single batch release (ISO 11135:2014/Amd 1:2018) | 11.080.01               | 2019-11      |
| EN ISO 11137-1/A2 | Sterilization of health care products – Radiation – Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices – Amendment 2: Revision to 4.3.4 and 1 (ISO 11137-1:2006/Amd 2:2018)                  | 11.080.01               | 2019-11      |
| EN ISO 11197      | Medical supply units (ISO 11197:2019)   | 11.040.10               | 2019-11      |
| EN ISO 11551      | Optics and photonics – Lasers and laser-related equipment – Test method for absorptance of optical laser components (ISO 11551:2019)  | 31.260                  | 2019-11      |
| EN ISO 12759-4    | Fans – Efficiency classification for fans – Part 4: Driven fans at maximum operating speed (ISO 12759-4:2019)   | 23.120                  | 2019-11      |
| EN ISO 13919-1    | Electron and laser-beam welded joints – Requirements and recommendations on quality levels for imperfections – Part 1: Steel, nickel, titanium and their alloys (ISO 13919-1:2019)  | 25.160.40               | 2019-11      |
| EN ISO 15002/A1   | Flow-metering devices for connection to terminal units of medical gas pipeline systems – Amendment 1 (ISO 15002:2008/Amd 1:2018)  | 11.040.10               | 2019-11      |
| EN ISO 15614-7    | Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 7: Overlay welding (ISO 15614-7:2016)  | 25.160.10               | 2019-11      |
| EN ISO 19036      | Microbiology of the food chain – Estimation of measurement uncertainty for quantitative determinations (ISO 19036:2019)   | 07.100.30               | 2019-11      |
| EN ISO 22041/A1   | Refrigerated storage cabinets and counters for professional use – Performance and energy consumption (ISO 22041:2019)   | 97.130.20               | 2019-11      |
| EN ISO 22125-1    | Water quality – Technetium-99 – Part 1: Test method using liquid scintillation counting (ISO 22125-1:2019)  | 13.060.60; 17.240       | 2019-11      |
| EN ISO 22125-2    | Water quality – Technetium-99 – Part 2: Test method using inductively coupled plasma mass spectrometry (ICP-MS) (ISO 22125-2:2019)  | 13.060.60               | 2019-11      |
| EN ISO 22301      | Security and resilience – Business continuity management systems – Requirements (ISO 22301:2019)  | 03.100.01;<br>03.100.70 | 2019-11      |

| Oznaka norme         | Naslov norme  | ICS               | Datum objave |
|----------------------|---|-------------------|--------------|
| EN ISO 24550         | Ergonomics – Accessible design – Indicator lights on consumer products (ISO 24550:2019)   | 11.180.30; 13.180 | 2019-11      |
| EN ISO 24551         | Ergonomics – Accessible design – Spoken instructions of consumer products (ISO 24551:2019)  | 11.180.30; 13.180 | 2019-11      |
| EN ISO 25424         | Sterilization of health care products – Low temperature steam and formaldehyde – Requirements for development, validation and routine control of a sterilization process for medical devices (ISO 25424:2018) | 11.080.01         | 2019-11      |
| EN ISO 80601-2-13/A1 | Medical electrical equipment – Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation – Amendment 1 (ISO 80601-2-13:2011/Amd 1:2015)                     | 11.040.10         | 2019-11      |
| EN ISO 80601-2-13/A2 | Medical electrical equipment – Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation – Amendment 2 (ISO 80601-2-13:2011/Amd 2:2018)                     | 11.040.10         | 2019-11      |
| EN ISO 81060-2       | Non-invasive sphygmomanometers – Part 2: Clinical investigation of intermittent automated measurement type (ISO 81060-2:2018)   | 11.040.10         | 2019-11      |

## Europska normizacija (CENELEC)

| Oznaka norme       | Naslov norme  | ICS                             | Datum objave |
|--------------------|---|---------------------------------|--------------|
| EN 16603-11        | Space engineering – Definition of the Technology Readiness Levels (TRLs) and their criteria of assessment (ISO 16290:2013, modified)  | 49.140                          | 2019-11      |
| EN 45555           | General methods for assessing the recyclability and recoverability of energy-related products   | 13.020.20                       | 2019-11      |
| EN 50104           | Electrical equipment for the detection and measurement of oxygen – Performance requirements and test methods  | 13.320                          | 2019-11      |
| CLC/TS 50586       | Open Smart Grid Protocol (OSGP)   | 33.200; 35.240.99;<br>91.140.50 | 2019-11      |
| EN 50632-2-6/A1    | Electric motor-operated tools – Dust measurement procedure – Part 2-6: Particular requirements for hammers  | 13.040.40;<br>25.140.20         | 2019-11      |
| EN 50980-1         | Remote alcohol monitoring devices – Test methods and performance requirements – Part 1: Instruments for assessment programmes   | 71.040.40                       | 2019-11      |
| EN 55035/AC        | Electromagnetic compatibility of multimedia equipment – Immunity requirements   | 33.100.20                       | 2019-11      |
| EN IEC 60086-4/AC  | Primary batteries – Part 4: Safety of lithium batteries (IEC 60086-4:2019/COR1:2019)  | 29.220.10                       | 2019-11      |
| EN IEC 60118-9     | Electroacoustics – Hearing aids – Part 9: Methods of measurement of the performance characteristics of bone conduction hearing aids (IEC 60118-9:2019)                        | 11.180.15;<br>17.140.50         | 2019-11      |
| EN 60335-2-4/A2    | Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors (IEC 60335-2-4:2008/A2:2017)                                     | 13.120; 97.060                  | 2019-11      |
| EN 60335-2-7/A2    | Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines (IEC 60335-2-7:2008/A2:2016, modified)                          | 97.060                          | 2019-11      |
| EN 60335-2-52/A12  | Household and similar electrical appliances – Safety – Part 2-52: Particular requirements for oral hygiene appliances   | 13.120; 97.170                  | 2019-11      |
| EN IEC 60335-2-111 | Household and similar electrical appliances – Safety – Part 2-111: Particular requirements for electric ondol mattress with a non-flexible heated part (IEC 60335-2-111:2015) | 97.030                          | 2019-11      |
| EN IEC 60384-16    | Fixed capacitors for use in electronic equipment – Part 16: Sectional specification – Fixed metallized polypropylene film dielectric DC capacitors (IEC 60384-16:2019)        | 31.060.30                       | 2019-11      |
| EN IEC 60565-2     | Underwater acoustics – Hydrophones – Calibration of hydrophones – Part 2: Procedures for low frequency pressure calibration (IEC 60565-2:2019)                                | 17.140.50                       | 2019-11      |

| Oznaka norme       | Naslov norme   | ICS                     | Datum objave |
|--------------------|--|-------------------------|--------------|
| EN IEC 60601-2-46  | Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables (IEC 60601-2-46:2016)   | 11.140                  | 2019-11      |
| EN IEC 60917-1     | Modular order for the development of mechanical structures for electrical and electronic equipment practices – Part 1: Generic standard (IEC 60917-1:2019)   | 31.240                  | 2019-11      |
| EN IEC 60974-3     | Arc welding equipment – Part 3: Arc striking and stabilizing devices (IEC 60974-3:2019)  | 25.160.30               | 2019-11      |
| EN IEC 60974-7     | Arc welding equipment – Part 7: Torches (IEC 60974-7:2019)   | 25.160.30               | 2019-11      |
| EN IEC 61000-3-11  | Electromagnetic compatibility (EMC) – Part 3-11: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems – Equipment with rated current $\leq 75$ A and subject to conditional connection (IEC 61000-3-11:2017)                      | 33.100.10;<br>35.240.63 | 2019-11      |
| EN IEC 61076-3-123 | Connectors for electrical and electronic equipment – Product requirements – Part 3-123: Rectangular connectors – Detail specification for hybrid connectors for industrial environments, for power supply and fibre optic data transmission, with push-pull locking (IEC 61076-3-123:2019) | 31.220.10               | 2019-11      |
| EN IEC 61169-1-2   | Radio-frequency connectors – Part 1-2: Electrical test methods – Insertion loss (IEC 61169-1-2:2019)   | 33.120.30               | 2019-11      |
| EN IEC 61169-64    | Radio frequency connectors – Part 64: Sectional specification – RF coaxial connectors with 0,8 mm inner diameter of outer conductor – Characteristic impedance $50 \Omega$ (type 0,8) (IEC 61169-64:2019)  | 33.120.30               | 2019-11      |
| EN IEC 61223-3-5   | Evaluation and routine testing in medical imaging departments – Part 3-5: Acceptance tests and constancy tests – Imaging performance of computed tomography X-ray equipment (IEC 61223-3-5:2019)   | 11.040.50               | 2019-11      |
| EN IEC 61300-3-21  | Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-21: Examinations and measurements – Switching time (IEC 61300-3-21:2019)   | 33.180.20               | 2019-11      |
| EN 61400-11/A1/AC  | Wind turbines – Part 11: Acoustic noise measurement techniques (IEC 61400-11:2012/A1:2018/COR1:2019)   | 17.140.20; 27.180       | 2019-11      |
| EN 61709/AC        | Electric components – Reliability – Reference conditions for failure rates and stress models for conversion (IEC 61709:2017/COR1:2019)   | 31.020                  | 2019-11      |
| EN IEC 62025-2     | High frequency inductive components – Non-electrical characteristics and measuring methods – Part 2: Test methods for non-electrical characteristics (IEC 62025-2:2019)  | 29.100.10               | 2019-11      |

| Oznaka norme      | Naslov norme  | ICS   | Datum objave |
|-------------------|---|---|--------------|
| EN IEC 62040-1/AC | Uninterruptible power systems (UPS) – Part 1: Safety requirements (IEC 62040-1:2017/COR1:2019)  | 29.160.40; 29.200                                     | 2019-11      |
| EN IEC 62209-3    | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 3: Vector measurement-based systems (Frequency range of 600 MHz to 6 GHz) (IEC 62209-3:2019) | 17.240; 33.060.20                                     | 2019-11      |
| EN IEC 62290-3    | Railway applications – Urban guided transport management and command/control systems – Part 3: System requirements specification (IEC 62290-3:2019)   | 03.220.30;<br>35.240.60;<br>45.060.01                 | 2019-11      |
| EN 62657-2/A1     | Industrial communication networks – Wireless communication networks – Part 2: Coexistence management (IEC 62657-2:2017/A1:2019)   | 25.040.40;<br>33.040.40; 35.110                       | 2019-11      |
| EN IEC 62668-1    | Process management for avionics – Counterfeit prevention – Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components (IEC 62668-1:2019)  | 03.100.50; 31.020;<br>49.060; 49.090                  | 2019-11      |
| EN IEC 62680-1-5  | Universal serial bus interfaces for data and power – Part 1-5: Common components – USB Audio 3.0 device class definition (IEC 62680-1-5:2019)   | 29.200; 33.120.01;<br>33.120.20; 35.200               | 2019-11      |
| EN IEC 62680-1-6  | Universal serial bus interfaces for data and power – Part 1-6: Common components – USB Audio 3.0 device class definition basic functions (IEC 62680-1-6:2019)   | 29.200; 33.120.01;<br>33.120.20; 35.200               | 2019-11      |
| EN IEC 62680-1-7  | Universal serial bus interfaces for data and power – Part 1-7: Common components – USB Audio 3.0 device class definition data formats (IEC 62680-1-7:2019)  | 29.200; 33.120.01;<br>35.100.20; 35.200               | 2019-11      |
| EN IEC 62680-1-8  | Universal serial bus interfaces for data and power – Part 1-8: Common components – USB Audio 3.0 device class definition terminal types (IEC 62680-1-8:2019)  | 29.200; 33.120.01;<br>33.120.20;<br>33.120.30; 35.200 | 2019-11      |
| EN IEC 62878-2-5  | Device embedding assembly technology – Part 2-5: Guidelines – Implementation of a 3D data format for device embedded substrate (IEC 62878-2-5:2019)   | 31.180; 31.190  | 2019-11      |
| EN IEC 62962      | Particular requirements for load-shedding equipment (LSE) (IEC 62962:2019)  | 27.015; 29.020;<br>91.140.50                          | 2019-11      |
| EN IEC 62985      | Methods for calculating size specific dose estimates (SSDE) on computed tomography (IEC 62985:2019)   | 11.040.50;<br>35.240.80                               | 2019-11      |
| EN IEC 63033-3    | Car multimedia systems and equipment – Drive monitoring system – Part 3: Measurement methods (IEC 63033-3:2019)   | 33.160.60;<br>35.240.60;<br>43.040.10;<br>43.040.15   | 2019-11      |



| Oznaka norme     | Naslov norme   | ICS                             | Datum objave |
|------------------|--|---------------------------------|--------------|
| EN IEC 63044-5-1 | Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-1: EMC requirements, conditions and test set-up (IEC 63044-5-1:2017)   | 29.120.01;<br>29.120.99; 97.120 | 2019-11      |
| EN IEC 63044-5-2 | Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) – Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments (IEC 63044-5-2:2017) | 29.100.99;<br>29.120.01; 97.120 | 2019-11      |
| EN IEC 63044-5-3 | Home and building electronic systems (HBES) and building automation and control systems (BACS) – Part 5-3: EMC requirements for HBES/BACS used in industrial environments (IEC 63044-5-3:2017)                                   | 29.120.01;<br>29.120.99; 97.120 | 2019-11      |
| EN IEC 63136     | Electric dishwashers for commercial use – Test methods for measuring the performance (IEC 63136:2019)  | 97.040.40                       | 2019-11      |
| EN IEC 63138-1   | Multi-channel radio frequency connectors – Part 1: Generic specification – General requirements and test methods (IEC 63138-1:2019)  | 33.120.30                       | 2019-11      |
| EN ISO/IEC 17029 | Conformity Assessment – General principles and requirements for validation and verification bodies (ISO/IEC 17029:2019)  | 03.120.20                       | 2019-11      |

## Europska normizacija (ETSI)

| Oznaka norme             | Naslov norme   | ICS                    | Datum objave |
|--------------------------|--|------------------------|--------------|
| ETSI SR 000314 V 2.26.2  | Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards  | 01.120; 03.140; 33.020 | 2019-11      |
| ETSI TS 101220 V 15.2.0  | Smart Cards – ETSI numbering system for telecommunication application providers (Release 15)   | 35.240.15              | 2019-11      |
| ETSI TR 101495 V 2.2.1   | Digital Audio Broadcasting (DAB) – Guide to DAB standards  | 33.170                 | 2019-11      |
| ETSI TS 101756 V 2.3.1   | Digital Audio Broadcasting (DAB) – Registered Tables   | 33.170                 | 2019-11      |
| ETSI TR 102137 V 1.3.1   | Electromagnetic compatibility and Radio spectrum Matters (ERM) – Use of radio frequency spectrum by equipment meeting ETSI standards   | 33.100.10              | 2019-11      |
| ETSI TR 102216 V 5.0.0   | Smart Cards – Vocabulary for Smart Card Platform specifications  | 35.240.15              | 2019-11      |
| ETSI TS 102221 V 15.4.0  | Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 15)  | 35.240.15              | 2019-11      |
| ETSI TS 102221 V 16.1.0  | Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 16)  | 35.240.15              | 2019-11      |
| ETSI TS 102241 V 14.2.0  | Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 14)  | 35.240.15              | 2019-11      |
| ETSI TS 102241 V 15.2.0  | Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 15)  | 35.240.15              | 2019-11      |
| ETSI TS 102241 V 16.0.0  | Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 16)  | 35.240.15              | 2019-11      |
| ETSI TS 102250-1 V 2.3.1 | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 1: Assessment of Quality of Service                                  | 33.040.01              | 2019-11      |
| ETSI TS 102250-2 V 2.7.1 | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 2: Definition of Quality of Service parameters and their computation | 33.040.01              | 2019-11      |
| ETSI TS 102250-3 V 2.4.1 | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 3: Typical procedures for Quality of Service measurement equipment   | 33.040.01              | 2019-11      |
| ETSI TS 102250-4 V 2.3.1 | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 4: Requirements for Quality of Service measurement equipment         | 33.040.01              | 2019-11      |
| ETSI TS 102250-5 V 2.5.1 | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 5: Definition of typical measurement profiles                        | 33.040.01              | 2019-11      |

| Oznaka norme              | Naslov norme   | ICS       | Datum objave |
|---------------------------|--|-----------|--------------|
| ETSI TS 102250-6 V 1.3.1  | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 6: Post processing and statistical methods       | 33.040.01 | 2019-11      |
| ETSI TS 102250-7 V 1.2.1  | Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 7: Network based Quality of Service measurements | 33.040.01 | 2019-11      |
| ETSI TR 102299 V 1.4.1    | Emergency Communications (EMTEL) – Collection of European Regulatory Texts and orientations  | 33.040.01 | 2019-11      |
| ETSI TS 102613 V 15.1.0   | Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 15)   | 35.240.15 | 2019-11      |
| ETSI TS 103152 V 2.1.1    | Intelligent Transport Systems (ITS) – V2X Communications – Multimedia Content Dissemination (MCD) Basic Service specification – Release 2                      | 35.240.60 | 2019-11      |
| ETSI TS 103176 V 2.3.1    | Digital Audio Broadcasting (DAB) – Rules of implementation – Service information features  | 33.170    | 2019-11      |
| ETSI TS 103427 V 1.1.1    | Core Network and Interoperability Testing (INT) – Framework of Internet related performance measurements [Recommendation ITU-T Q.3960 (2016)]                  | 33.040.99 | 2019-11      |
| ETSI TR 103513 V 1.1.1    | Digital Enhanced Cordless Telecommunications (DECT) – DECT Technology Roadmap  | 33.070.30 | 2019-11      |
| ETSI TS 103558 V 1.1.1    | Speech and multimedia Transmission Quality (STQ) – Methods for objective assessment of listening effort  | 33.040.01 | 2019-11      |
| ETSI TR 103573 V 1.1.1    | Intelligent Transport Systems (ITS) – Pre-standardization study of ITS test mode for operational devices in the field  | 35.240.60 | 2019-11      |
| ETSI TR 103581 V 1.1.1    | Use of measurement detectors in radio measurement methods  | 33.060.20 | 2019-11      |
| ETSI TR 103585 V 1.2.1    | Reconfigurable Radio Systems (RRS) – Radio Equipment (RE) reconfiguration use cases  | 33.060.20 | 2019-11      |
| ETSI TS 103624 V 1.1.1    | Characterization Methodology and Requirement Specifications for the ETSI LC3plus codec   | 33.040.01 | 2019-11      |
| ETSI TR 103635 V 1.1.1    | Digital Enhanced Cordless Telecommunications (DECT) – DECT-2020 New Radio (NR) interface – Study on MAC and higher layers                                      | 33.070.30 | 2019-11      |
| ETSI TS 103666-1 V 15.0.0 | Smart Secure Platform (SSP) – Part 1: General characteristics (Release 15)   | 35.240.15 | 2019-11      |
| ETSI TS 103666-2 V 15.0.0 | Smart Secure Platform (SSP) – Part 2: Integrated SSP (iSSP) characteristics (Release 15)   | 35.240.15 | 2019-11      |
| ETSI TS 103689 V 1.1.1    | Digital Audio Broadcasting (DAB) – Filtered Information Service (FIS) – Application specification  | 33.170    | 2019-11      |
| ETSI TS 103713 V 15.0.0   | Smart Secure Platform (SSP) – SPI interface (Release 15)   | 35.240.15 | 2019-11      |

| Oznaka norme                | Naslov norme  | ICS                               | Datum objave |
|-----------------------------|---|-----------------------------------|--------------|
| ETSI TS 119495 V 1.4.1      | Electronic Signatures and Infrastructures (ESI) – Sector Specific Requirements – Qualified Certificate Profiles and TSP Policy Requirements under the payment services Directive (EU) 2015/2366 | 33.040.01                         | 2019-11      |
| ETSI TS 129573 V 15.3.1     | 5G – 5G System – Public Land Mobile Network (PLMN) Interconnection – Stage 3 (3GPP TS 29.573 version 15.3.1 Release 15)   | 33.070.99                         | 2019-11      |
| ETSI GR ENI 007 V 1.1.1     | Experiential Networked Intelligence (ENI) – ENI Definition of Categories for AI Application to Networks   | 35.080; 35.110                    | 2019-11      |
| ETSI GR MEC 024 V 2.1.1     | Multi-access Edge Computing (MEC) – Support for network slicing   | 35.110                            | 2019-11      |
| ETSI GR MEC 027 V 2.1.1     | Multi-access Edge Computing (MEC) – Study on MEC support for alternative virtualization technologies  | 35.110                            | 2019-11      |
| ETSI GR NFV-IFA 029 V 3.3.1 | Network Functions Virtualisation (NFV) Release 3 – Architecture – Report on the Enhancements of the NFV architecture towards ‘Cloud-native’ and ‘PaaS’  | 35.110                            | 2019-11      |
| ETSI GR NFV-SEC 018 V 1.1.1 | Network Functions Virtualisation (NFV) – Security – Report on NFV Remote Attestation Architecture   | 35.110                            | 2019-11      |
| ETSI GR NGP 015 V 1.1.1     | Next Generation Protocol (NGP) – Recommendation for Network Layer Multi-Path Support  | 33.040.40; 35.110                 | 2019-11      |
| ETSI GR NGP 016 V 1.1.1     | Next Generation Protocols (NGP) – Large-Scale Deterministic Network   | 33.040.40; 35.110                 | 2019-11      |
| ETSI GS MEC 010-2 V 2.1.1   | Multi-access Edge Computing (MEC) – MEC Management – Part 2: Application lifecycle, rules and requirements management   | 33.070.99                         | 2019-11      |
| ETSI GS MEC 011 V 2.1.1     | Multi-access Edge Computing (MEC) – Edge Platform Application Enablement  | 33.070.99                         | 2019-11      |
| ETSI GS NFV 005 V 1.2.1     | Network Functions Virtualisation (NFV) – Proofs of Concept – Framework  | 33.040.40; 35.110                 | 2019-11      |
| EN 301489-1 V 2.2.3         | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements – Harmonised Standard for ElectroMagnetic Compatibility                   | 33.100.10                         | 2019-11      |
| EN 301549 V 3.1.1           | Accessibility requirements for ICT products and services  | 03.100.10; 13.180; 33.020; 35.020 | 2019-11      |
| EN 301908-1 V 13.1.1        | IMT cellular networks – Harmonised Standard for access to radio spectrum – Part 1: Introduction and common requirements   | 33.060.20                         | 2019-11      |
| EN 301908-13 V 13.1.1       | IMT cellular networks – Harmonised Standard for access to radio spectrum – Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)                                     | 33.060.20; 33.070.01              | 2019-11      |

## Međunarodna normizacija (ISO)

| Oznaka norme | Naslov norme  | ICS               | Datum objave |
|--------------|---|-------------------|--------------|
| ISO Guide 82 | Guidelines for addressing sustainability in standards   | 01.120; 13.020.01 | 2019-11      |
| ISO 180      | Plastics – Determination of Izod impact strength  | 83.080.01         | 2019-11      |
| ISO 536      | Paper and board – Determination of grammage   | 85.060            | 2019-11      |
| ISO 815-1    | Rubber, vulcanized or thermoplastic – Determination of compression set – Part 1: At ambient or elevated temperatures  | 83.060            | 2019-11      |
| ISO 815-2    | Rubber, vulcanized or thermoplastic – Determination of compression set – Part 2: At low temperatures  | 83.060            | 2019-11      |
| ISO 1833-15  | Textiles – Quantitative chemical analysis – Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content)   | 59.060.01         | 2019-11      |
| ISO 1920-3   | Testing of concrete – Part 3: Making and curing test specimens  | 91.100.30         | 2019-11      |
| ISO 1920-14  | Testing of concrete – Part 14: Setting time of concrete mixtures by resistance to penetration   | 91.100.30         | 2019-11      |
| ISO 2106     | Anodizing of aluminium and its alloys – Determination of mass per unit area (surface density) of anodic oxidation coatings – Gravimetric method   | 25.220.20         | 2019-11      |
| ISO 3233-1   | Paints and varnishes – Determination of percentage volume of non-volatile matter – Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry-film density by the Archimedes' principle | 87.040            | 2019-11      |
| ISO 4180     | Packaging – Complete, filled transport packages – General rules for the compilation of performance test schedules   | 55.180.40         | 2019-11      |
| ISO 5010     | Earth-moving machinery – Wheeled machines – Steering requirements   | 53.100            | 2019-11      |
| ISO 5053-2   | Industrial trucks – Vocabulary – Part 2: Fork arms and attachments  | 01.040.53; 53.060 | 2019-11      |
| ISO 6101-1   | Rubber – Determination of metal content by atomic absorption spectrometry – Part 1: Determination of zinc content   | 83.060            | 2019-11      |
| ISO 6101-2   | Rubber – Determination of metal content by atomic absorption spectrometry – Part 2: Determination of lead content   | 83.060            | 2019-11      |
| ISO 6336-1   | Calculation of load capacity of spur and helical gears – Part 1: Basic principles, introduction and general influence factors   | 21.200            | 2019-11      |
| ISO 6336-2   | Calculation of load capacity of spur and helical gears – Part 2: Calculation of surface durability (pitting)  | 21.200            | 2019-11      |
| ISO 6336-3   | Calculation of load capacity of spur and helical gears – Part 3: Calculation of tooth bending strength  | 21.200            | 2019-11      |

| Oznaka norme | Naslov norme   | ICS               | Datum objave |
|--------------|--|-------------------|--------------|
| ISO 6336-6   | Calculation of load capacity of spur and helical gears – Part 6: Calculation of service life under variable load   | 21.200            | 2019-11      |
| ISO 6504-3   | Paints and varnishes – Determination of hiding power – Part 3: Determination of hiding power of paints for masonry, concrete and interior use                                    | 87.040            | 2019-11      |
| ISO 6892-1   | Metallic materials – Tensile testing – Part 1: Method of test at room temperature  | 77.040.10         | 2019-11      |
| ISO 7870-1   | Control charts – Part 1: General guidelines  | 03.120.30         | 2019-11      |
| ISO 8368     | Hydrometric determinations – Flow measurements in open channels using structures – Guidelines for selection of structure   | 17.120.20         | 2019-11      |
| ISO 9413     | Tyre valves – Dimensions and designation   | 83.160.01         | 2019-11      |
| ISO 9957-2   | Fluid draughting media – Part 2: Water-based non-India ink – Requirements and test conditions  | 01.100.40         | 2019-11      |
| ISO 10110-8  | Optics and photonics – Preparation of drawings for optical elements and systems – Part 8: Surface texture  | 01.100.20; 37.020 | 2019-11      |
| ISO 10110-12 | Optics and photonics – Preparation of drawings for optical elements and systems – Part 12: Aspheric surfaces   | 01.100.20; 37.020 | 2019-11      |
| ISO 10303-41 | Industrial automation systems and integration – Product data representation and exchange – Part 41: Integrated generic resource: Fundamentals of product description and support | 25.040.40         | 2019-11      |
| ISO 10303-42 | Industrial automation systems and integration – Product data representation and exchange – Part 42: Integrated generic resource: Geometric and topological representation        | 25.040.40         | 2019-11      |
| ISO 10303-44 | Industrial automation systems and integration – Product data representation and exchange – Part 44: Integrated generic resource: Product structure configuration                 | 25.040.40         | 2019-11      |
| ISO 10303-45 | Industrial automation systems and integration – Product data representation and exchange – Part 45: Integrated generic resource: Material and other engineering properties       | 25.040.40         | 2019-11      |
| ISO 10303-46 | Industrial automation systems and integration – Product data representation and exchange – Part 46: Integrated generic resource: Visual presentation                             | 25.040.40         | 2019-11      |
| ISO 10303-47 | Industrial automation systems and integration – Product data representation and exchange – Part 47: Integrated generic resource: Shape variation tolerances                      | 25.040.40         | 2019-11      |
| ISO 10303-56 | Industrial automation systems and integration – Product data representation and exchange – Part 56: Integrated general resource: State   | 25.040.40         | 2019-11      |

| Oznaka norme      | Naslov norme   | ICS       | Datum objave |
|-------------------|--|-----------|--------------|
| ISO 10303-61      | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 61: Integrated generic resource: Systems engineering representation                    | 25.040.40 | 2019-11      |
| ISO 10303-101     | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 101: Integrated application resource: Draughting                                       | 25.040.40 | 2019-11      |
| ISO 10303-105     | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 105: Integrated application resource: Kinematics                                       | 25.040.40 | 2019-11      |
| ISO 10303-107     | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 107: Integrated application resource: Finite element analysis definition relationships | 25.040.40 | 2019-11      |
| ISO/TS 10303-410  | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 410: Application module: AP210 electronic assembly interconnect and packaging design   | 25.040.40 | 2019-11      |
| ISO/TS 10303-442  | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 442: Application module: AP242 managed model based 3D engineering                      | 25.040.40 | 2019-11      |
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| ISO/TS 10303-1004 | Industrial automation systems and integration<br>– Product data representation and exchange<br>– Part 1004: Application module: Elemental geometric shape                                    | 25.040.40 | 2019-11      |
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| ISO 21822         | Fine ceramics (advanced ceramics, advanced technical ceramics) – Measurement of iso-electric point of ceramic powder  | 81.060.30                    | 2019-11      |
| ISO 21942         | Station uniform for firefighters  | 13.340.10                    | 2019-11      |
| ISO 21956         | Road vehicles – Ergonomics aspects of transport information and control systems – Human machine interface specifications for keyless ignition systems   | 13.180; 43.040.15; 43.060.50 | 2019-11      |
| ISO 21983         | Guidelines for the harvesting, transportation, separation of stigma, drying and storage of saffron before packing   | 67.220.10                    | 2019-11      |
| ISO 22055         | Switch and crossing rails   | 45.080; 77.140.99            | 2019-11      |
| ISO 22125-1       | Water quality – Technetium-99 – Part 1: Test method using liquid scintillation counting   | 13.060.60; 17.240            | 2019-11      |
| ISO 22125-2       | Water quality – Technetium-99 – Part 2: Test method using inductively coupled plasma mass spectrometry (ICP-MS)   | 13.060.60; 17.240            | 2019-11      |
| ISO 22241-1 AMD 1 | Diesel engines – NOx reduction agent AUS 32 – Part 1: Quality requirements; Amendment 1   | 43.060.40                    | 2019-11      |
| ISO 22447         | Industrial wastewater classification  | 13.030.20                    | 2019-11      |
| ISO 22510         | Open data communication in building automation, controls and building management – Home and building electronic systems – KNXnet/IP communication   | 35.240.67; 91.040.01         | 2019-11      |
| ISO/TS 22583      | Guidance for supervisors and operators of point-of-care testing (POCT) devices  | 03.100.30; 11.100.01         | 2019-11      |
| ISO/TS 22773      | Health Informatics – Categorical structures for the representation of the decocting process in traditional Chinese medicine   | 35.240.80                    | 2019-11      |
| ISO/TR 23786      | Road vehicles – Solutions for remote access to vehicle – Criteria for risk assessment   | 43.040.15                    | 2019-11      |

| Oznaka norme | Naslov norme   | ICS                                   | Datum objave |
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| ISO 23907-2  | Sharps injury protection – Requirements and test methods – Part 2: Reusable sharps containers                                | 11.040.99                             | 2019-11      |
| ISO/TR 23975 | Traditional Chinese medicine – Priority list of single herbal medicines for developing standards                             | 01.120; 11.120.10                     | 2019-11      |
| ISO 24337    | Laminate floor coverings – Determination of geometrical characteristics  | 79.080; 97.150                        | 2019-11      |
| ISO/TR 24471 | Brazing – Grouping systems for materials – American materials  | 25.160.01                             | 2019-11      |
| ISO 26162-1  | Management of terminology resources – Terminology databases – Part 1: Design   | 01.020; 35.240.30                     | 2019-11      |
| ISO 26162-2  | Management of terminology resources – Terminology databases – Part 2: Software   | 01.020; 35.240.30                     | 2019-11      |
| ISO 28927-1  | Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders     | 13.160; 25.140.10                     | 2019-11      |
| ISO 29988-1  | Plastics – Polyoxymethylene (POM) moulding and extrusion materials – Part 1: Designation system and basis for specifications | 83.080.20                             | 2019-11      |
| ISO 35001    | Biorisk management for laboratories and other related organisations  | 03.100.70;<br>07.100.01;<br>11.100.01 | 2019-11      |
| ISO 37105    | Sustainable cities and communities – Descriptive framework for cities and communities  | 13.020.20                             | 2019-11      |
| ISO/TS 50044 | Energy saving projects (EnSPs) – Guidelines for economic and financial evaluation  | 27.015                                | 2019-11      |

## Međunarodna normizacija (IEC)

| Oznaka norme                    | Naslov norme   | ICS                             | Datum objave |
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| CISPR 15 Interpretation Sheet 1 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment; Interpretation Sheet 1                                    | 29.140.01;<br>33.100.10         | 2019-11      |
| IEC Guide 108                   | Guidelines for ensuring the coherence of IEC publications – Horizontal functions, horizontal publications and their application  | 01.120                          | 2019-11      |
| IEC/TR 60092-370                | Electrical installations in ships – Part 370: Guidance on the selection of cables for telecommunication and data transfer including radio-frequency cables                     | 29.060.20;<br>47.020.60         | 2019-11      |
| IEC 60317-27-3                  | Specifications for particular types of winding wires – Part 27-3: Paper tape covered rectangular copper wire   | 29.060.10                       | 2019-11      |
| IEC 60335-2-90 AMD 1            | Household and similar electrical appliances – Safety – Part 2-90: Particular requirements for commercial microwave ovens; Amendment 1  | 97.040.20                       | 2019-11      |
| IEC 60335-2-90 Edition 4.1      | Household and similar electrical appliances – Safety – Part 2-90: Particular requirements for commercial microwave ovens   | 97.040.20                       | 2019-11      |
| IEC 60335-2-97 AMD 1            | Household and similar electrical appliances – Safety – Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment; Amendment 1          | 21.120.01;<br>91.060.50         | 2019-11      |
| IEC 60335-2-97 Edition 3.1      | Household and similar electrical appliances – Safety – Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment                       | 21.120.01;<br>91.060.50         | 2019-11      |
| IEC 60335-2-103 AMD 2           | Household and similar electrical appliances – Safety – Part 2-103: Particular requirements for drives for gates, doors and windows; Amendment 2                                | 13.120; 91.060.50               | 2019-11      |
| IEC 60335-2-103 Edition 3.2     | Household and similar electrical appliances – Safety – Part 2-103: Particular requirements for drives for gates, doors and windows   | 13.120; 91.060.50               | 2019-11      |
| IEC 60335-2-116                 | Household and similar electrical appliances – Safety – Part 2-116: Particular requirements for furniture with electrically motorised parts                                     | 13.120; 97.140                  | 2019-11      |
| IEC 60512-28-100                | Connectors for electrical and electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests up to 2000 MHz – Tests 28a to 28g                            | 31.220.10                       | 2019-11      |
| IEC 60580                       | Medical electrical equipment – Dose area product meters  | 11.040.50; 17.240               | 2019-11      |
| IEC 60601-2-22                  | Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment | 11.040.55;<br>11.040.60; 31.260 | 2019-11      |

| Oznaka norme            | Naslov norme   | ICS                                   | Datum objave |
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| IEC 60747-5-8           | Semiconductor devices – Part 5-8: Optoelectronic devices – Light emitting diodes – Test method of optoelectronic efficiencies of light emitting diodes   | 31.080.99; 31.260                     | 2019-11      |
| IEC 60747-9             | Semiconductor devices – Part 9: Discrete devices – Insulated-gate bipolar transistors (IGBTs)  | 31.080.01;<br>31.080.30               | 2019-11      |
| IEC 60747-14-10         | Semiconductor devices – Part 14-10: Semiconductor sensors – Performance evaluation methods for wearable glucose sensors                                  | 31.080.01;<br>35.240.80;<br>59.080.80 | 2019-11      |
| IEC 60747-19-1          | Semiconductor devices – Part 19-1: Smart sensors – Control scheme of smart sensors   | 31.080.99                             | 2019-11      |
| IEC 60754-1 AMD 1       | Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content; Amendment 1                    | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 60754-1 Edition 3.1 | Test on gases evolved during combustion of materials from cables – Part 1: Determination of the halogen acid gas content                                 | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 60754-2 AMD 1       | Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity; Amendment 1    | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 60754-2 Edition 2.1 | Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity                 | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 60793-2             | Optical fibres – Part 2: Product specifications – General  | 33.180.10                             | 2019-11      |
| IEC/TR 60825-5          | Safety of laser products – Part 5: Manufacturer's checklist for IEC 60825-1  | 13.280; 31.260                        | 2019-11      |
| IEC 60904-4             | Photovoltaic devices – Part 4: Photovoltaic reference devices – Procedures for establishing calibration traceability                                     | 27.160                                | 2019-11      |
| IEC 61034-1 AMD 2       | Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus; Amendment 2  | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 61034-1 Edition 3.2 | Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus   | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 61034-2 AMD 2       | Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements; Amendment 2                           | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 61034-2 Edition 3.2 | Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements  | 13.220.40; 29.020;<br>29.060.20       | 2019-11      |
| IEC 61123               | Reliability testing – Compliance test plans for success ratio  | 03.120.01;<br>03.120.30; 21.020       | 2019-11      |
| IEC 61300-2-54          | Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-54: Tests – Corrosive atmosphere (mixed gas) | 33.180.20                             | 2019-11      |

| Oznaka norme               | Naslov norme  | ICS                                     | Datum objave |
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| IEC 61756-1                | Fibre optic interconnecting devices and passive components – Interface standard for fibre management systems – Part 1: General and guidance                                   | 33.180.01                               | 2019-11      |
| IEC 61784-3-12 AMD 1       | Industrial communication networks – Profiles – Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12; Amendment 1                                    | 25.040.40; 35.100.05; 35.160; 35.240.50 | 2019-11      |
| IEC 61784-3-12 Edition 1.1 | Industrial communication networks – Profiles – Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12   | 25.040.40; 35.100.05; 35.160; 35.240.50 | 2019-11      |
| IEC 61810-1 AMD 1          | Electromechanical elementary relays – Part 1: General and safety requirements; Amendment 1  | 29.120.70                               | 2019-11      |
| IEC 61810-1 Edition 4.1    | Electromechanical elementary relays – Part 1: General and safety requirements   | 29.120.70                               | 2019-11      |
| IEC 62047-35               | Semiconductor devices – Micro-electromechanical devices – Part 35: Test method of electrical characteristics under bending deformation for flexible electromechanical devices | 31.080.99; 31.220.01                    | 2019-11      |
| IEC/TR 62343-6-11          | Dynamic Modules – Part 6-11: Design guidelines – Software and hardware interface for optical multicast switches   | 33.180.01                               | 2019-11      |
| IEC/TS 62565-4-1           | Nanomanufacturing – Material specifications – Part 4-1: Luminescent nanomaterials – Blank detail specification  | 07.120; 31.020                          | 2019-11      |
| IEC 62645                  | Nuclear power plants – Instrumentation, control and electrical power systems – Cybersecurity requirements   | 27.120.20; 35.030                       | 2019-11      |
| IEC 62706                  | Radiation protection instrumentation – Recommended climatic, electromagnetic and mechanical performance requirements and methods of tests                                     | 13.280; 17.240                          | 2019-11      |
| IEC/TR 62829-1             | Chemometrics for process analytical technologies – Part 1: General provisions, and methods for univariate statistics and chemometric processing of data                       | 03.120.30; 25.040.40; 35.240.50         | 2019-11      |
| IEC 63052 Corrigendum 1    | Power frequency overvoltage protection devices (POPs) for household and similar applications; Corrigendum 1   | 29.120.50                               | 2019-11      |
| IEC 63077                  | Good refurbishment practices for medical imaging equipment  | 11.040.55                               | 2019-11      |
| IEC 63078                  | Installations for electroheating and electromagnetic processing – Test methods for induction through-heating installations  | 25.180.10                               | 2019-11      |
| IEC/TS 63157               | Photovoltaic systems – Guidelines for effective quality assurance of power conversion equipment   | 27.160                                  | 2019-11      |
| IEC/TR 63225               | Incompatibility of connectors for DC-application in photovoltaic systems  | 27.160                                  | 2019-11      |

| Oznaka norme        | Naslov norme   | ICS       | Datum objave |
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| ISO/IEC TS 11179-30 | Information technology – Metadata registries (MDR) – Part 30: Basic attributes of metadata   | 35.040.50 | 2019-11      |
| ISO/IEC 19774-1     | Information technology – Computer graphics, image processing and environmental data representation – Part 1: Humanoid animation (H-Anim) architecture          | 35.140    | 2019-11      |
| ISO/IEC 19774-2     | Information technology – Computer graphics, image processing and environmental data representation – Part 2: Humanoid animation (H-Anim) motion data animation | 35.140    | 2019-11      |
| ISO/IEC 23093-3     | Information technology – Internet of media things – Part 3: Media data formats and APIs  | 35.040.40 | 2019-11      |
| ISO/IEC 24091       | Information technology – Power efficiency measurement specification for data center storage  | 35.020    | 2019-11      |
| ISO/IEC 26561       | Software and systems engineering – Methods and tools for product line technical probe  | 35.080    | 2019-11      |
| ISO/IEC 26562       | Software and systems engineering – Methods and tools for product line transition management  | 35.080    | 2019-11      |
| ISO/IEC 27050-1     | Information technology – Electronic discovery – Part 1: Overview and concepts  | 35.030    | 2019-11      |
| ISO/IEC 29192-2     | Information security – Lightweight cryptography – Part 2: Block ciphers  | 35.030    | 2019-11      |
| ISO/IEC 30113-12    | Information technology – User interfaces – Gesture-based interfaces across devices and methods – Part 12: Multi-point gestures for common system actions       | 35.240.20 | 2019-11      |
| ISO/IEC 33020       | Information technology – Process assessment – Process measurement framework for assessment of process capability   | 35.080    | 2019-11      |