

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

6/2013 listopad, 2013.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrta hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacrte 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:



**Hrvatski zavod za norme**  
Croatian Standards Institute

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# 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 prihvatanju (pr)
- izradbom izvorne hrvatske norme (izv).

Oznaka načina prihvatanja navedena je uz referencijsku oznaku hrvatske norme.

Hrvatske su norme zainteresiranim na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

## HZN/TO 28, Naftni proizvodi i maziva

HRN ISO 1998-99:2013 hr,en,fr pp

Naftna industrija – Nazivlje – 99. dio: Općenito i indeks (ISO 1998-99:2000)  
Petroleum industry – Terminology – Part 99: General and index (ISO 1998-99:2000)

HRN EN 14274:2013/lspri.1:2013 en pr

Goriva za motorna vozila – Ocjena kvalitete benzina i dizelskoga goriva – Sustav nadzora kvalitete goriva (FQMS) (EN 14274:2013/AC:2013)  
Automotive fuels – Assessment of petrol and diesel quality – Fuel quality monitoring system (FQMS) (EN 14274:2013/AC:2013)

HRN EN 15721:2013 en pr

Etanol kao komponenta koja se namješava u benzin – Određivanje viših alkohola, metanola i isparivih nečistoća – Metoda plinske kromatografije (EN 15721:2013)  
Ethanol as a blending component for petrol – Determination of higher alcohols, methanol and other impurities – Gas chromatographic method (EN 15721:2013)

HRI CEN/TR 16514:2013 en pr

Goriva za motorna vozila – Bezolovni motorni benzin koji sadrži više od 3,7% (m/m) kisika – Smjernice, metode ispitivanja i zahtjevi za E10+ benzin (CEN/TR 16514:2013)  
Automotive fuels – Unleaded petrol containing more than 3,7% (m/m) oxygen – Roadmap, test methods, and requirements for E10+ petrol (CEN/TR 16514:2013)

HRI CEN/TR 16569:2013 en pr

Goriva za motorna vozila – Procjena utjecaja E10 benzina na performanse vozila i emisije (CEN/TR 16569:2013)  
Automotive fuels – Assessing the effects of E10 petrol on vehicle emissions and performance (CEN/TR 16569:2013)

## HZN/TO 34/PO 4, Poljoprivredni i prehrabreni proizvodi; Žito i proizvodi od žita

HRN EN ISO 11747:2013 en pr

Riža – Određivanje otpornosti zrna riže na ekstruziju nakon kuhanja (ISO 11747:2012; EN ISO 11747:2012)  
Rice – Determination of rice kernel resistance to extrusion after cooking (ISO 11747:2012; EN ISO 11747:2012)

## HZN/TO 47, Kemija

HRN EN ISO 6556:2013 en pr

Laboratorijsko stakleno posuđe – Tikvice za filtraciju (ISO 6556:2012; EN ISO 6556:2012)  
Laboratory glassware – Filter flasks (ISO 6556:2012; EN ISO 6556:2012)

## HZN/TO 71, Beton

HRI CEN/TR 16563:2013 en pr

Načela postupka utvrđivanja ekvivalentne trajnosti (CEN/TR 16563:2013)

Principles of the equivalent durability procedure (CEN/TR 16563:2013)

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

HRN EN 13136:2013 en pr

Rashladni sustavi i dizalice topline – Uređaji za rasterećenje od tlaka i pripadajući cjevovodi – Metode proračuna (EN 13136:2013)

Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation (EN 13136:2013)

HRN EN 14511-1:2013 en pr

Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 1. dio: Nazivi i definicije (EN 14511-1:2013)

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms, definitions and classification (EN 14511-1:2013)

HRN EN 14511-4:2013 en pr

Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 4. dio: Zahtjevi (EN 14511-4:2013)

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Operating requirements, marking and instructions (EN 14511-4:2013)

## HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja

HRN EN ISO 5814:2013 en pr

Kvaliteta vode – Određivanje otopljenog kisika – Elektrokemijska metoda (ISO 5814:2012; EN ISO 5814:2012)

Water quality – Determination of dissolved oxygen – Electrochemical probe method (ISO 5814:2012; EN ISO 5814:2012)

## HZN/TO 147/PO 6, Kvaliteta vode; Uzorkovanje (opće metode)

HRN EN ISO 5667-3:2013 en pr

Kvaliteta vode – Uzorkovanje – 3. dio: Čuvanje i rukovanje uzorcima vode (ISO 5667-3:2012; EN ISO 5667-3:2012)

Water quality – Sampling – Part 3: Preservation and handling of water samples (ISO 5667-3:2012; EN ISO 5667-3:2012)

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

HRN EN ISO 6341:2013 en pr

Kvaliteta vode – Određivanje inhibicije pokretljivosti Daphnia magna Straus (Cladocera, Crustarea) – Test akutne toksičnosti (ISO 6341:2012; EN ISO 6341:2012)  
Water quality – Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) – Acute toxicity test (ISO 6341:2012; EN ISO 6341:2012)

HRN EN 16101:2013 en pr

Kvaliteta vode – Savjetodavna norma za izradu i analizu međulaboratorijskih porebennih ispitivanja za ekološku procjenu (EN 16101:2012)  
Water quality – Guidance standard on interlaboratory comparison studies for ecological assessment (EN 16101:2012)

HRN EN 16164:2013 en pr  
Kvaliteta vode – Savjetodavna norma za izradu i odabir taksonomskih ključeva (EN 16164:2013)  
Water quality – Guidance standard for designing and selecting taxonomic keys (EN 16164:2013)

HRN EN 16260:2013 en pr  
Kvaliteta vode – Vizualna istraživanja morskog dna primjenom opreme za promatranje i prikupljanje podataka o okolišu s daljinskim upravljanjem i pokretanjem (EN 16260:2012)  
Water quality – Visual seabed surveys using remotely operated and/or towed observation gear for collection of environmental data (EN 16260:2012)

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

HRN EN 12016:2013 en pr  
Elektromagnetska kompatibilnost – Norma porodice proizvoda za dizala, pokretnе stube i pokretnе trake – Otpornost (EN 12016:2013)  
Electromagnetic compatibility – Product family standard for lifts, escalators and moving walks – Immunity (EN 12016:2013)

#### **HZN/TO 502, Plinski uređaji**

HRN EN 417:2013 en pr  
Jednokratno metalno plinsko punjenje za ukapljeni naftni plin, s ventilom ili bez njega, za upotrebu s prenosivim uređajima – Konstrukcija, inspekcija, ispitivanje i označivanje (EN 417:2012)  
Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances – Construction, inspection, testing and marking (EN 417:2012)

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

HRN EN 12007-1:2013 en pr  
Plinska infrastruktura – Cjevovodi za maksimalni radni tlak do 16 bara i uključujući 16 bara – 1. dio: Opći funkcionalni zahtjevi (EN 12007-1:2012)  
Gas infrastructure – Pipelines for maximum operating pressure up to and including 16 bar – Part 1: General functional requirements (EN 12007-1:2012)

HRN EN 12007-2:2013 en pr  
Plinska infrastruktura – Cjevovodi za maksimalni radni tlak do 16 bara i uključujući 16 bara – 2. dio: Posebni funkcionalni zahtjevi za polietilen (MRT do i uključujući 10 bara) (EN 12007-2:2012)  
Gas infrastructure – Pipelines for maximum operating pressure up to and including 16 bar – Part 2: Specific functional requirements for polyethylene (MOP up to and including 10 bar) (EN 12007-2:2012)

HRN EN 12007-4:2013 en pr  
Plinska infrastruktura – Cjevovodi za maksimalni radni tlak do 16 bara i uključujući 16 bara – 4. dio: Posebni funkcionalni zahtjevi za obnavljanje (EN 12007-4:2012)  
Gas infrastructure – Pipelines for maximum operating pressure up to and including 16 bar – Part 4: Specific functional requirements for renovation (EN 12007-4:2012)

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

HRN EN ISO 6974-1:2013 en pr  
Prirodni plin – Određivanje sastava i pripadne nesigurnosti pomoću plinske kromatografije – 1. dio: Opće smjernice i proračun sastava (ISO 6974-1:2012+Cor 1:2012; EN ISO 6974-1:2012+AC:2012)

Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 1: General guidelines and calculation of composition (ISO 6974-1:2012+Cor 1:2012; EN ISO 6974-1:2012+AC:2012)

HRN EN ISO 6974-2:2013 en pr  
Prirodni plin – Određivanje sastava i pripadne nesigurnosti pomoću plinske kromatografije – 2. dio: Proračun nesigurnosti (ISO 6974-2:2012; EN ISO 6974-2:2012)  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 2: Uncertainty calculations (ISO 6974-2:2012; EN ISO 6974-2:2012)

HRN EN ISO 10723:2013 en pr  
Prirodni plin – Vrednovanje izvedbe za analitički sustav (ISO 10723:2012; EN ISO 10723:2012)  
Natural gas – Performance evaluation for analytical systems (ISO 10723:2012; EN ISO 10723:2012)

HRN EN ISO 12211:2013 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Izmjenjivači topline sa spiralnim pločama (ISO 12211:2012; EN ISO 12211:2012)  
Petroleum, petrochemical and natural gas industries – Spiral plate heat exchangers (ISO 12211:2012; EN ISO 12211:2012)

HRN EN ISO 12212:2013 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Cijevni izmjenjivači topline (ISO 12212:2012; EN ISO 12212:2012)  
Petroleum, petrochemical and natural gas industries – Hairpin-type heat exchangers (ISO 12212:2012; EN ISO 12212:2012)

HRN EN ISO 13705:2013 en pr  
Industrija nafte, petrokemije i prirodnoga plina – Procesne peći za opću rafinerijsku namjenu (ISO 13705:2012; EN ISO 13705:2012)  
Petroleum, petrochemical and natural gas industries – Fired heaters for general refinery service (ISO 13705:2012; EN ISO 13705:2012)

HRN EN ISO 19905-1:2013 en pr  
Industrija nafte i prirodnoga plina – Specifično ocjenjivanje pokretnih odobalnih jedinica – 1. dio: Samopodizne platforme (ISO 19905-1:2012; EN ISO 19905-1:2012)  
Petroleum and natural gas industries – Site-specific assessment of mobile offshore units – Part 1: Jack-ups (ISO 19905-1:2012; EN ISO 19905-1:2012)

HRN EN ISO 27509:2013 en pr  
Industrija nafte i prirodnoga plina – Kompaktni prirubnički priključci s IX brtvenim prstenom (ISO 27509:2012+Cor 1:2013; EN ISO 27509:2012+AC:2013)  
Petroleum and natural gas industries – Compact flanged connections with IX seal ring (ISO 27509:2012+Cor 1:2013; EN ISO 27509:2012+AC:2013)

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

HRN EN 12405-2:2013 en pr  
Plinomjeri – Uređaji za pretvorbu/korekciju – 2. dio: Pretvorba/korekcija energije (EN 12405-2:2012)  
Gas meters – Conversion devices – Part 2: Energy conversion (EN 12405-2:2012)

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

HRN EN 16258:2013 en pr  
Metodologija za proračun i određivanje potrošnje energije i emisije stakleničkih plinova u uslugama prijevoza (prijevoz tereta i putnika) (EN 16258:2012)  
Methodology for calculation and declaration of energy consumption and GHG emissions of transport services (freight and passengers) (EN 16258:2012)

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

HRN EN 12228:2013 en pr

Površine sportskih terena – Određivanje čvrstoće spoja sintetičkih obloga (EN 12228:2013)  
Surfaces for sports areas – Determination of joint strength of synthetic surfaces (EN 12228:2013)

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

HRN EN 13001-3-1:2013 en pr

Granici – Opće projektiranje – Dio 3-1: Granična stanja i dokaz sigurnosti za čelične nosive konstrukcije (EN 13001-3-1:2012+A1:2013)  
Cranes – General Design – Part 3-1: Limit States and proof competence of steel structure (EN 13001-3-1:2012+A1:2013)

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

HRN EN 12098-1:2013 en pr

Regulacija sustava grijanja – 1. dio: Upravljački uređaji sustava toplovodnog grijanja (EN 12098-1:2013)  
Controls for heating systems – Part 1: Control equipment for hot water heating systems (EN 12098-1:2013)

**HZN/TO 544, Strojni elementi**

HRN EN ISO 14581:2013 en pr

Spojni elementi – Vjici s upuštenom ravnom glavom i šesterokrakim zvjezdastim upustom (ISO 14581:2013; EN ISO 14581:2013)  
Fasteners – Hexalobular socket countersunk flat head screws (ISO 14581:2013; EN ISO 14581:2013)

HRN EN ISO 14582:2013 en pr

Vjici s upuštenom visokom glavom i šesterokrakim zvjezdastim upustom (ISO 14582:2013;  
EN ISO 14582:2013)  
Fasteners – Hexalobular socket countersunk head screws, high head (ISO 14582:2013;  
EN ISO 14582:2013)

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

HRN EN 13508-1:2013 en pr

Ispitivanje i ocjena sustava odvodnje i kanalizacije izvan zgrada – 1. dio: Opći zahtjevi (EN 13508-1:2012)  
Investigation and assessment of drain and sewer systems outside buildings – Part 1: General Requirements (EN 13508-1:2012)

HRN EN 14654-2:2013 en pr

Upravljanje i kontrola radnih aktivnosti u sustavima ispušta i odvodnim kanalima izvan zgrada – 2. dio: Sanacija (EN 14654-2:2013)  
Management and control of operational activities in drain and sewer systems outside buildings – Part 2: Rehabilitation (EN 14654-2:2013)

**HZN/TO 555, Medicinski proizvodi**

HRN EN ISO 10993-10:2013 en pr

Biološka procjena medicinskih proizvoda – 10. dio: Ispitivanja za iritaciju i osjetljivost kože (ISO 10993-10:2010; EN ISO 10993-10:2013)  
Biological evaluation of medical devices – Part 10: Tests for irritation and skin sensitization (ISO 10993-10:2010; EN ISO 10993-10:2013)

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

HRN EN 1983:2013 en pr

Industrijski ventili – Čelični kuglasti ventili (EN 1983:2013)  
Industrial valves – Steel ball valves (EN 1983:2013)

HRN EN 13774:2013 en pr

Ventili za distribucijske sustave plina s maksimalnim radnim tlakom manjim od 16 bara ili jednakim 16 bara – Izvedbeni zahtjevi (EN 13774:2013)  
Valves for gas distribution systems with maximum operating pressure less than or equal to 16 bar – Performance requirements (EN 13774:2013)

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

HRN EN ISO 3807:2013 en pr

Plinske boce – Boce za acetilen – Osnovni zahtjevi i ispitivanje tipa (ISO 3807:2013; EN ISO 3807:2013)  
Gas cylinders – Acetylene cylinders – Basic requirements and type testing (ISO 3807:2013; EN ISO 3807:2013)

HRN EN ISO 11120:2003/A1:2013 en pr

Plinske boce – Ponovno punjive bešavne čelične boce za transport komprimiranog plina, vodenog kapaciteta od 150 do 3000 l – Projektiranje, konstruiranje i ispitivanje – Amandman 1: Zahtjevi za projektiranje boca za plinove koji izazivaju krtost materijala (ISO 11120:1999/Amd 1:2013;  
EN ISO 11120:1999/A1:2013)  
Gas cylinders – Refillable seamless steel tubes for compressed gas transport, of water capacity between 150 l and 3000 l – Design construction and testing – Amendment 1: Requirements for design of tubes for embrittling gases (ISO 11120:1999/Amd 1:2013;  
EN ISO 11120:1999/A1:2013)

HRN EN ISO 12209:2013 en pr

Plinske boce – Izlazni priključci ventila plinskih boca za zrak za disanje (ISO 12209:2013;  
EN ISO 12209:2013)  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air (ISO 12209:2013; EN ISO 12209:2013)

HRN EN 13445-5:2009/A4:2013 en pr

Neložene tlačne posude – 5. dio: Pregled i ispitivanje (EN 13445-5:2009/A4:2013)  
Unfired pressure vessels – Part 5: Inspection and testing (EN 13445-5:2009/A4:2013)

HRN EN 13480-4:2012/A1:2013 en pr

Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012/A1:2013)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012/A1:2013)

HRN EN 13480-5:2012/A1:2013 en pr

Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2012/A1:2013)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2012/A1:2013)

HRN EN ISO 15245-1:2002/A1:2013 en pr

Plinske boce – Paralelni navoji za spajanje ventila i plinskih boca – 1. dio: Specifikacije (ISO 15245-1:2001/Amd 1:2013;  
EN ISO 15245-1:2001/A1:2013)  
Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001/Amd 1:2013;  
EN ISO 15245-1:2001/A1:2013)

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

HRN EN 691-1:2013 en pr  
 Sigurnost strojeva za obradu drva – 1. dio: Opći zahtjevi (EN 691-1:2012)  
 Safety of woodworking machines – Part 1: Common requirements (EN 691-1:2012)

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

HRN EN 13732:2013 en pr  
 Strojevi za preradu hrane – Hladnjaci za mlijeko u rinfuzi na farmama – Zahtjevi za izvedbu, sigurnost i higijenu (EN 13732:2013)  
 Food processing machinery – Bulk milk coolers on farms – Requirements for performance, safety and hygiene (EN 13732:2013)

HRN EN 15432-2:2013 en pr  
 Oprema za zimsku službu održavanja i službu održavanja cesta – Oprema postavljena na prednjoj strani – 2. dio: Zamjenjivost na sustavima za dizanje (EN 15432-2:2013)  
 Winter and road service area maintenance equipments – Front-mounted equipments – Part 2: Interchangeability on lifting systems (EN 15432-2:2013)

HRN EN 16330:2013 en pr  
 Oprema za zimsku službu održavanja i službu održavanja cesta – Sustav napajanja i pripadajuće kontrole – Hidraulični sustav napajanja i električno sučelje (EN 16330:2013)  
 Winter and road service area equipment – Power system and related controls – Power hydraulic system and electric interfaces (EN 16330:2013)

## **HZN/TO 571, Oprema za sport, igrališta i rekreatiju**

HRN EN 748:2013 en pr  
 Oprema za sportska igrališta – Nogometni golovi – Funkcionalni i sigurnosni zahtjevi, metode ispitivanja (EN 748:2013)  
 Playing field equipment – Football goals – Functional and safety requirements, test methods (EN 748:2013)

HRN EN 12503-4:2013 en pr  
 Sportske strunjače – 4. dio: Određivanje prigušenja udaraca (EN 12503-4:2013)  
 Sports mats – Part 4: Determination of shock absorption (EN 12503-4:2013)

HRN EN 13537:2013 en pr  
 Zahtjevi za vreće za spavanje (EN 13537:2012)  
 Requirements for sleeping bags (EN 13537:2012)

HRN EN 14960:2013 en pr  
 Oprema za igranje na napuhavanje – Sigurnosni zahtjevi i metode ispitivanja (EN 14960:2013)  
 Inflatable play equipment – Safety requirements and test methods (EN 14960:2013)

HRN EN 15151-2:2013 en pr  
 Planinarska oprema – Naprave za kočenje – 2. dio: Ručne naprave za kočenje, sigurnosni zahtjevi i metode ispitivanja (EN 15151-2:2012)  
 Mountaineering equipment – Braking devices – Part 2: Manual braking devices, safety requirements and test methods (EN 15151-2:2012)

HRN EN 16083:2013 en pr  
 Kratka vesla i vesla za rekreativska plovila – Sigurnosni zahtjevi i metode ispitivanja (EN 16083:2012)  
 Paddles and oars for recreational boats – Safety requirements and test methods (EN 16083:2012)

HRN EN ISO 20957-1:2013 en pr  
 Oprema za vježbanje – 1. dio: Opći sigurnosni zahtjevi i metode ispitivanja (ISO 20957-1:2013; EN ISO 20957-1:2013)  
 Stationary training equipment – Part 1: General safety requirements and test methods (ISO 20957-1:2013; EN ISO 20957-1:2013)

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

HRN EN 62271-101:2013 en pr  
 Visokonaponska sklopna aparatura – 101. dio: Sintetska ispitivanja (IEC 62271-101:2012; EN 62271-101:2013)  
 High-voltage switchgear and controlgear – Part 101: Synthetic testing (IEC 62271-101:2012; EN 62271-101:2013)

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

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

HRN EN 60598-2-12:2013 en pr  
 Svjetiljke – Dio 2-12: Posebni zahtjevi – Noćna svjetla koja se postavljaju na utičnicu (IEC 60598-2-12:2013; EN 60598-2-12:2013)  
 Luminaires – Part 2-12: Particular requirements – Mains socket-outlet mounted nightlights (IEC 60598-2-12:2013; EN 60598-2-12:2013)

## **HZN/TO E55, Žice za namote**

HRN EN 60317-0-7:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – Dio 0-7: Opći zahtjevi – Potpuno izolirana (FIW) lakirana okrugla bakrena žica bez defekta s nazivnim promjerom vodiča 0,040 mm do 1,600 mm (IEC 60317-0-7:2012; EN 60317-0-7:2012)  
 Specifications for particular types of winding wires – Part 0-7: General requirements – Fully insulated (FIW) zero-defect enamelled round copper wire with nominal conductor diameter of 0,040 mm to 1,600 mm (IEC 60317-0-7:2012; EN 60317-0-7:2012)

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

HRN EN 60317-2:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 2. dio: Poliuretanom lakirana lemljiva okrugla bakrena žica, razreda 130, s vezivnim slojem (IEC 60317-2:2012; EN 60317-2:2012)  
 Specifications for particular types of winding wires – Part 2: Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer (IEC 60317-2:2012; EN 60317-2:2012)

HRN EN 60317-49:2013 en pr  
 Specifikacije pojedinih vrsta žica za namote – 49. dio: Nelakirana ili lakirana profilna bakrena žica, omotana staklenim vlaknima visoke temperature i impregnirana smolom ili lakovom, indeksa temperature 180 (IEC 60317-49:2012+Corr.1:2013; EN 60317-49:2012)  
 Specifications for particular types of winding wires – Part 49: Glass-fibre wound high temperature resin or varnish impregnated, bare or enamelled round copper wire, temperature index 180 (IEC 60317-49:2012+Corr.1:2013; EN 60317-49:2012)

HRN EN 60317-50:2013 en pr	Specifikacije pojedinih vrsta žica za namote – 50. dio: Nelakirana ili lakirana profilna bakrena žica, omotana silikonskim staklenim vlaknima i impregnirana smolom ili lakom, indeksa temperature 200 (IEC 60317-50:2012; EN 60317-50:2012)	HRN EN 61710:2013 en pr	Duaneov model – Prilagodbe teorijskih razdioba i metode procjena (IEC 61710:2013; EN 61710:2013)
	Specifications for particular types of winding wires – Part 50: Glass-fibre wound silicone resin or varnish impregnated, bare or enamelled round copper wire, temperature index 200 (IEC 60317-50:2012; EN 60317-50:2012)		Power law model – Goodness-of-fit tests and estimation methods (IEC 61710:2013; EN 61710:2013)
HRN EN 60317-56:2013 en pr	Specifikacije pojedinih vrsta žica za namote – 56. dio: Lemljiva potpuno izolirana (FIW) poliuretanska lakirana okrugla bakrena žica bez defekta s nazivnim promjerom vodiča 0,040 mm do 1,600 mm, razreda 180 (IEC 60317-56:2012; EN 60317-56:2012)	HRN EN 62506:2013 en pr	Metode za ispitivanje proizvoda ubrzanim ispitivanjem (IEC 62506:2013; EN 62506:2013)
	Specifications for particular types of winding wires – Part 56: Solderable fully insulated (FIW) zero-defect polyurethane enamelled round copper wire with nominal conductor diameter of 0,040 mm to 1,600 mm, class 180 (IEC 60317-56:2012; EN 60317-56:2012)		Methods for product accelerated testing (IEC 62506:2013; EN 62506:2013)
HRN EN 60317-60:2013 en pr	Specifikacije pojedinih vrsta žica za namote – 60. dio: Nelakirana ili lakirana profilna bakrena žica omotana poliesterskim staklenim vlaknima minimalnog razreda 155, impregnirana lakom ili smolom ili neimpregnirana, indeksa temperature 155 (IEC 60317-60:2012; EN 60317-60:2012)	HRN EN 62673:2013 en pr	Metodologija za procjenu i osiguranje pouzdanosti komunikacijske mreže (IEC 62673:2013; EN 62673:2013)
	Specifications for particular types of winding wires – Part 60: Polyester glass fibre wound minimum class 155 resin or varnish impregnated or not impregnated, bare or enamelled, rectangular copper wire, temperature index 155 (IEC 60317-60:2012; EN 60317-60:2012)		Methodology for communication network dependability assessment and assurance (IEC 62673:2013; EN 62673:2013)
HRN EN 60317-61:2013 en pr	Specifikacije pojedinih vrsta žica za namote – 61. dio: Nelakirana ili lakirana profilna bakrena žica omotana poliesterskim staklenim vlaknima minimalnog razreda 180, impregnirana lakom ili smolom, indeksa temperature 180 (IEC 60317-61:2012; EN 60317-61:2012)	HRN EN 60350-1:2013 en pr	Kućanski električni aparati za kuhanje – 1. dio: Štednjaci, kuhalja, kuhalja na paru i roštilji – Metode ispitivanja za mjerjenje radnih značajka (IEC 60350-1:2011, MOD+Corr.1:2012; EN 60350-1:2013)
	Specifications for particular types of winding wires – Part 61: Polyester glass fibre wound, minimum class 180, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180 (IEC 60317-61:2012; EN 60317-61:2012)		Household electric cooking appliances – Part 1: Ranges, ovens, steam ovens and grills – Methods for measuring performance (IEC 60350-1:2011, MOD+Corr.1:2012; EN 60350-1:2013)
HRN EN 60317-62:2013 en pr	Specifikacije pojedinih vrsta žica za namote – 62. dio: Nelakirana ili lakirana profilna bakrena žica omotana poliesterskim staklenim vlaknima minimalnog razreda 200, impregnirana lakom ili smolom, indeksa temperature 200 (IEC 60317-62:2012; EN 60317-62:2012)	HRN EN 61131-6:2013 en pr	Funkcionalna sigurnost (IEC 61131-6:2012; EN 61131-6:2012)
	Specifications for particular types of winding wires – Part 62: Polyester glass fibre wound, minimum class 200 resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200 (IEC 60317-62:2012; EN 60317-62:2012)		Programmable controllers – Part 6: Functional safety (IEC 61131-6:2012; EN 61131-6:2012)
HRN EN 60851-3:2013/A1:2013 en pr	Žice za namote – Ispitne metode – 3. dio: Mehanička svojstva (IEC 60851-3:2009/am1:2013; EN 60851-3:2009/A1:2013)	HRN EN 61499-1:2013 en pr	Funkcijski blokovi – 1. dio: Arhitektura (IEC 61499-1:2012; EN 61499-1:2013)
	Winding wires – Test methods – Part 3: Mechanical properties (IEC 60851-3:2009/am1:2013; EN 60851-3:2009/A1:2013)		Function blocks – Part 1: Architecture (IEC 61499-1:2012; EN 61499-1:2013)
HRN EN 60851-6:2013 en pr	Žice za namote – Ispitne metode – 6. dio: Toplinska svojstva (IEC 60851-6:2012; EN 60851-6:2012)	HRN EN 61499-2:2013 en pr	Funkcijski blokovi – 2. dio: Zahtjevi za softverske alate (IEC 61499-2:2012; EN 61499-2:2013)
	Winding wires – Test methods – Part 6: Thermal properties (IEC 60851-6:2012; EN 60851-6:2012)		Function blocks – Part 2: Software tool requirements (IEC 61499-2:2012; EN 61499-2:2013)
HRN EN 62439-1:2011/A1:2013 en pr	Industrijske komunikacijske mreže – Automacijske mreže velike raspoloživosti – 1. dio: Opće koncepcije i metode izračuna (IEC 62439-1:2010/am1:2012; EN 62439-1:2010/A1:2012)	HRN EN 61499-4:2013 en pr	Funkcijski blokovi – 4. dio: Pravila za profile za uskladjivanje (IEC 61499-4:2013; EN 61499-4:2013)
	Industrial communication networks – High availability automation networks – Part 1: General concepts and calculation methods (IEC 62439-1:2010/am1:2012; EN 62439-1:2010/A1:2012)		Function blocks – Part 4: Rules for compliance profiles (IEC 61499-4:2013; EN 61499-4:2013)
HRN EN 62541-7:2013 en pr	OPC objedinjena arhitektura – 7. dio: Profili (IEC 62541-7:2012; EN 62541-7:2012)	HRN EN 62541-7:2013 en pr	OPC unified architecture – Part 7: Profiles (IEC 62541-7:2012; EN 62541-7:2012)

HRN EN 62541-9:2013 en pr  
OPC objedinjena arhitektura – 9. dio: Alarms i stanja (IEC 62541-9:2012; EN 62541-9:2012)  
OPC unified architecture – Part 9: Alarms and conditions (IEC 62541-9:2012; EN 62541-9:2012)

HRN EN 62541-10:2013 en pr  
OPC objedinjena arhitektura – 10. dio: Programi (IEC 62541-10:2012; EN 62541-10:2012)  
OPC unified architecture – Part 10: Programs (IEC 62541-10:2012; EN 62541-10:2012)

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

HRN EN 60900:2013 en pr  
Rad pod naponom – Ručni alati za rad pod naponom do 1000 V izmjenično i 1500 V istosmjerno (IEC 60900:2012; EN 60900:2012)  
Live working – Hand tools for use up to 1000 V a.c. and 1500 V d.c. (IEC 60900:2012; EN 60900:2012)

HRN EN 61472:2013 en pr  
Rad pod naponom – Minimalne udaljenosti približavanja za postrojenja izmjeničnog napona od 72,5 kV do 800 kV – Metoda proračuna (IEC 61472:2013; EN 61472:2013)  
Live working – Minimum approach distances for a.c. systems in the voltage range 72,5 kV to 800 kV – A method of calculation (IEC 61472:2013; EN 61472:2013)

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

HRN EN 50136-2:2013 en pr  
Alarmni sustavi – Sustavi i uređaji za prijenos signala alarma – 2. dio: Zahtjevi za primopredajnik nadziranih objekata (SPT) (EN 50136-2:2013)  
Alarm systems – Alarm transmission systems and equipment – Part 2: Requirements for Supervised Premises Transceiver (SPT) (EN 50136-2:2013)

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

#### **HZN/TO E95, Mjerni releji i zaštitna oprema**

HRN EN 60255-26:2013 en pr  
Mjerni releji i zaštitna oprema – 26. dio: Zahtjevi za elektromagnetsku kompatibilnost (IEC 60255-26:2013; EN 60255-26:2013)  
Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements (IEC 60255-26:2013; EN 60255-26:2013)

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

HRN EN 61936-1:2012/Ispr.1:2013 en pr  
Električna postrojenja nazivnih izmjeničnih napona iznad 1kV – 1. dio: Opća pravila (EN 61936-1:2010/AC:2013)  
Power installations exceeding 1 kV a.c. – Part 1: Common rules (EN 61936-1:2010/AC:2013)

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

HRN EN 62075:2013/Ispr.1:2013 en pr  
Oprema audio/video, informacijske i komunikacijske tehnologije – Dizajn prihvativljiv za okoliš (EN 62075:2012/AC:2013)  
Audio/video, information and communication technology equipment – Environmentally conscious design (EN 62075:2012/AC:2013)

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

HRN EN 55015:2013 en pr  
Granice i metode mjeranja značajaka radiosmetnja električnih rasvjetnih i sličnih uređaja (CISPR 15:2013+IS1:2013+IS2:2013; EN 55015:2013)  
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013+IS1:2013+IS2:2013; EN 55015:2013)

HRN EN 55016-2-3:2011/Ispr.1:2013 en pr  
Specifikacija uređaja i metoda za mjeranje radiosmetnja i otpornosti – Dio 2-3: Metode za mjeranje radiosmetnja i otpornosti – Mjerena zračenih smetnja (EN 55016-2-3:2010/AC:2013)  
Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (EN 55016-2-3:2010/AC:2013)

HRN EN 61000-3-3:2013 en pr  
Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom <= 16 A i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2013; EN 61000-3-3:2013)  
Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013; EN 61000-3-3:2013)

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

HRN EN 50173-4:2008/A2:2013 en pr  
Informacijska tehnologija – Generički sustavi kabliranja – 4. dio: Stambeni prostori (EN 50173-4:2007/A2:2012)  
Information technology – Generic cabling systems – Part 4: Homes (EN 50173-4:2007/A2:2012)

HRN EN 50173-5:2008/A2:2013 en pr  
Informacijska tehnologija – Generički sustavi kabliranja – 5. dio: Podatkovni centri (EN 50173-5:2007/A2:2012)  
Information technology – Generic cabling systems – Part 5: Data centres (EN 50173-5:2007/A2:2012)

HRN EN 50173-6:2013 en pr  
Informacijska tehnologija – Generički sustavi kabliranja – 6. dio: Distribuirani servisi u zgradama (EN 50173-6:2013)  
Information technology – Generic cabling systems – Part 6: Distributed building services (EN 50173-6:2013)

HRN EN 50174-3:2013 en pr  
Informacijska tehnologija – Instalacija kabliranja – 3. dio: Planiranje instalacije i instalacijska praksa izvan zgrada (EN 50174-3:2013)  
Information technology – Cabling installation – Part 3: Installation planning and practices outside buildings (EN 50174-3:2013)

HRN EN 50600-1:2013 en pr  
Informacijska tehnologija – Sredstva i infrastrukture podatkovnih centara – 1. dio: Opći koncepti (EN 50600-1:2012)  
Information technology – Data centre facilities and infrastructures – Part 1: General concepts (EN 50600-1:2012)

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

- HRN EN 300 019-2-4 V2.3.1:2013 en pr  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-4: Specifikacije testova okoliša – Stacionarna primjena na vremenski nezaštićenim lokacijama  
(EN 300 019-2-4 V2.3.1:2013)
- Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations  
(EN 300 019-2-4 V2.3.1:2013)
- HRN EN 300 175-1 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 1. dio: Opći pregled (EN 300 175-1 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview (EN 300 175-1 V2.5.1:2013)
- HRN EN 300 175-2 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 2. dio: Fizički sloj (PHL) (EN 300 175-2 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL) (EN 300 175-2 V2.5.1:2013)
- HRN EN 300 175-3 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 3. dio: Srednji sloj nadzora nad pristupom (MAC)  
(EN 300 175-3 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer  
(EN 300 175-3 V2.5.1:2013)
- HRN EN 300 175-4 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 4. dio: Sloj podatkovnoga kontrolnog linka (DLC)  
(EN 300 175-4 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer (EN 300 175-4 V2.5.1:2013)
- HRN EN 300 175-5 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 5. dio: Sloj mreže (NWK) (EN 300 175-5 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer (EN 300 175-5 V2.5.1:2013)
- HRN EN 300 175-6 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 6. dio: Identiteti i adresiranje (EN 300 175-6 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing (EN 300 175-6 V2.5.1:2013)
- HRN EN 300 175-7 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 7. dio: Značajke zaštite (EN 300 175-7 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features (EN 300 175-7 V2.5.1:2013)
- HRN EN 300 175-8 V2.5.1:2013 en pr  
Digitalne poboljšane bežične telekomunikacije (DECT) – Zajedničko sučelje (CI) – 8. dio: Kodiranje i prijenos govora i zvuka (EN 300 175-8 V2.5.1:2013)  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission  
(EN 300 175-8 V2.5.1:2013)

- HRN EN 300 296-1 V1.4.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Kopnena pokretna služba – Radijska oprema s integralnim antenama namijenjena ponajprije za analogni govor – 1. dio: Tehničke karakteristike i metode mjerjenja (EN 300 296-1 V1.4.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – Radio equipment using integral antennas intended primarily for analogue speech – Part 1: Technical characteristics and methods of measurement (EN 300 296-1 V1.4.1:2013)
- HRN EN 300 296-2 V1.4.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Kopnena pokretna služba – Radijska oprema s integralnim antenama za analogni govor – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 direktive R&TTE  
(EN 300 296-2 V1.4.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Land Mobile Service – Radio equipment using integral antennas intended primarily for analogue speech – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive (EN 300 296-2 V1.4.1:2013)
- HRN EN 300 373-1 V1.4.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Pomorski pokretni odašiljači i prijamnici za uporabu u MF i HF pojasevima – 1. dio: Tehničke karakteristike i metode mjerjenja  
(EN 300 373-1 V1.4.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime mobile transmitters and receivers for use in the MF and HF bands – Part 1: Technical characteristics and methods of measurement (EN 300 373-1 V1.4.1:2013)
- HRN EN 301 033 V1.4.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Tehničke karakteristike i metode mjerjenja za brodske kontrolne prijamnike za prijam digitalnog selektivnog poziva (DSC) u pomorskim MF, MF/HF i VHF pojasevima (EN 301 033 V1.4.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Technical characteristics and methods of measurement for shipborne watchkeeping receivers for reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and VHF bands (EN 301 033 V1.4.1:2013)
- HRN EN 301 390 V1.3.1:2013 en pr  
Nepokretni radijski sustavi – Sustavi točka-točka i sustavi više točaka – Neželjene emisije u sporednoj domeni i granice otpornosti prijemnika na antenskom priključku opreme digitalnih nepokretnih radijskih sustava (EN 301 390 V1.3.1:2013)  
Fixed Radio Systems – Point-to-point and Multipoint Systems – Unwanted emissions in the spurious domain and receiver immunity limits at equipment/antenna port of Digital Fixed Radio Systems  
(EN 301 390 V1.3.1:2013)
- HRN EN 301 489-3 V1.6.1:2013 en pr  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Norma elektromagnetske kompatibilnosti (EMC) za radijsku opremu i službe – 3. dio: Posebni uvjeti za uređaje kratkoga dometa (SRD) na frekvencijama između 9 kHz i 246 GHz  
(EN 301 489-3 V1.6.1:2013)  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz (EN 301 489-3 V1.6.1:2013)

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

HRN EN 419211-2:2013 en pr

Obrasci zaštite sredstava za izradu elektroničkog potpisa – 2. dio: Sredstvo za generiranje ključa (EN 419211-2:2013)

Protection profiles for secure signature creation device – Part 2: Device with key generation (EN 419211-2:2013)

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

HRI CEN/TR 16496:2013 en pr

Gradevni proizvodi – Procjena otpuštanja opasnih tvari – Upotreba usklađenih horizontalnih metoda procjene (CEN/TR 16496:2013)

Construction Products – Assessment of release of dangerous substances – Use of harmonised horizontal assessment methods (CEN/TR 16496:2013)

HRS CEN/TS 16516:2013 en pr

Gradevni proizvodi – Procjena otpuštanja opasnih tvari – Određivanje emisija u zrak u zatvorenom prostoru (CEN/TS 16516:2013)

Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air (CEN/TS 16516:2013)

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

HRN EN 16081:2013 en pr

Hiperbarične komore – Posebni zahtjevi za vatrogasne sustave – Izvedba, instalacija i ispitivanje (EN 16081:2011+A1:2013)

Hyperbaric chambers – Specific requirements for fire extinguishing systems – Performance, installation and testing (EN 16081:2011+A1:2013)

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

HRN EN 60127-7:2013 en pr

Minijaturni osigurači – 7. dio: Minijaturni rastalni ulošci osigurača za specijalne primjene (IEC 60127-7:2013; EN 60127-7:2013)

Miniature fuses – Part 7: Miniature fuse-links for special applications (IEC 60127-7:2013; EN 60127-7:2013)

HRI CLC/TR 60269-5:2013 en pr

Niskonaponski osigurači – 5. dio: Upute za primjenu niskonaponskih osigurača (IEC/TR 60269-5:2010; CLC/TR 60269-5:2011)

Low-voltage fuses – Part 5: Guidance for the application of low-voltage fuses (IEC/TR 60269-5:2010; CLC/TR 60269-5:2011)

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

HRN EN 60519-4:2013 en pr

Sigurnost u instalacijama električnoga grijanja – 4. dio: Posebni zahtjevi za instalacije za elektrolučne peći (IEC 60519-4:2013; EN 60519-4:2013)

Safety in electroheating installations – Part 4: Particular requirements for arc furnace installations (IEC 60519-4:2013; EN 60519-4:2013)

HRN EN 60519-12:2013 en pr

Sigurnost u instalacijama električnoga grijanja – 12. dio: Posebni zahtjevi za instalacije infracrvenoga električnog grijanja (IEC 60519-12:2013; EN 60519-12:2013)

Safety in electroheating installations – Part 12: Particular requirements for infrared electroheating installations (IEC 60519-12:2013; EN 60519-12:2013)

HRN EN 61558-2-26:2013 en pr

Sigurnost transformatora, prigušnica, jedinica za napajanje i kombinacija od toga – Dio 2-26: Posebni zahtjevi i ispitivanja za transformatore i jedinica za napajanje za uštedu energije i druge svrhe (IEC 61558-2-26:2013; EN 61558-2-26:2013)

Safety of transformers, reactors, power supply units and combinations thereof – Part 2-26: Particular requirements and tests for transformers and power supply units for saving energy and other purposes (IEC 61558-2-26:2013; EN 61558-2-26:2013)

## **1.2 Nacrti hrvatskih norma**

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o nacrtima hrvatskih norma (oznaka nHRN). Pisane primjedbe na nacrti hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrtu hrvatske norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo). Nacrti su hrvatskih norma zainteresiranim na raspolažanju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

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

nHRN ISO 6107-2 hr,en,fr,ru pp

Kvaliteta vode – Terminološki rječnik – 2. dio (ISO 6107-2:2006)

Water quality – Vocabulary – Part 2 (ISO 6107-2:2006)

nHRN ISO 6107-7 hr,en,fr,ru pp

Kvaliteta vode – Terminološki rječnik – 7. dio (ISO 6107-7:2006)

Water quality – Vocabulary – Part 7 (ISO 6107-7:2006)

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

nHRN EN 13809 hr,en,fr,de pp

Usluge u turizmu – Turističke agencije i tuoperatori – Nazivlje (EN 13809:2003)

Tourism services – Travel agencies and tour operators – Terminology (EN 13809:2003)

nHRN EN ISO 18513 hr,en,fr,de pp

Usluge u turizmu – Hoteli i druge vrste turističkog smještaja – Nazivlje (ISO 18513:2003; EN ISO 18513:2003)

Tourism services – Hotels and other types of tourism accommodation – Terminology (ISO 18513:2003; EN ISO 18513:2003)

## **HZN/TO 556, Osobna zaštitna oprema**

nkHRN 1144 hr izv

Vatrogasni opasači – Zahtjevi i ispitivanja Firefighter belts – Requirements and testing

### **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 (HNZ e-glasilo).

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

FprEN 1808 en

Safety requirements for suspended access equipment – Design calculations, stability criteria, construction – Examinations and tests

Zahtjevi za sigurnost viseće skele – Projektni proračuni, kriteriji stabilnosti, konstrukcija – Pregledi i ispitivanja

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

prEN 16661 en

Tyre Pressure Management Systems and Tyre Pressure Gauges – Interoperability between TPMS/ vehicle and TPG – Interfaces and Requirements  
Sustavi za nadzor tlaka u guma i mjeraci tlaka u gumama – Međudjelovanje SUTG i TTG (PTG) – Sučelja i zahtjevi

prEN 16662 en

Road vehicles – Supplementary grip devices for tyres of passenger cars and light duty vehicles – Safety requirements and test method

Cestovna vozila – Pomoćne naprave za mjerjenje dubine šare (utora gazne površine) za gume osobnih vozila i lakih dostavnih (komercijalnih) vozila – Sigurnosni zahtjevi i metoda ispitivanja

#### **HZN/TO 35, Boje i lakovi**

EN ISO 10890:2010 en

Paints and varnishes – Modelling of biocide release rate from antifouling paints by mass-balance calculation (ISO 10890:2010)

Boje i lakovi – Modeliranje brzine otpuštanja biocida iz antivegetativnih boja izračunom bilance mase (ISO 10890:2010)

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

EN ISO 2503:2009/prA1 en

Gas welding equipment – Pressure regulators and pressure regulators with flow-metering devices for gas cylinders used in welding, cutting and allied processes up to 300 bar (30 MPa)  
(ISO 2503:2009/DAM 1:2013)

Oprema za plinsko zavarivanje – Regulatori tlaka i regulatori tlaka za plinske boce koje se upotrebljavaju pri zavarivanju, rezanju i srodnim postupcima za tlakove do 300 bara (30 MPa)  
(ISO 2503:2009/DAM 1:2013)

EN ISO 5172:2006/prA2 en

Gas welding equipment – Blowpipes for gas welding, heating and cutting – Specifications and tests  
(ISO 5172:2006/DAM 2:2013)

Oprema za plinsko zavarivanje – Plamenici za plinsko zavarivanje, zagrijavanje i rezanje – Specifikacije i ispitivanja (ISO 5172:2006/DAM 2:2013)

EN ISO 7291:2010/prA1 en

Gas welding equipment – Pressure regulators for manifold systems used in welding; cutting and allied processes up to 30 MPa (300 bar)  
(ISO 7291:2010/DAM 1:2013)

Oprema za plinsko zavarivanje – Regulatori tlaka za razdjelne sustave koji se upotrebljavaju pri zavarivanju, rezanju i srodnim postupcima za tlakove do 30 MPa (300 bar) (ISO 7291:2010/DAM 1:2013)

FprEN ISO 12671 en

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

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

FprEN ISO 14554-1 en

Quality requirements for welding – Resistance welding of metallic materials – Part 1: Comprehensive quality requirements (ISO/FDIS 14554-1:2013)  
Zahtjevi za kvalitetu zavarivanja – Elektrootporno zavarivanje metalnih materijala – 1. dio: Sveobuhvatni zahtjevi za kvalitetu (ISO/FDIS 14554-1:2013)

FprEN ISO 14554-2 en

Quality requirements for welding – Resistance welding of metallic materials – Part 2: Elementary quality requirements (ISO/FDIS 14554-2:2013)  
Zahtjevi za kvalitetu zavarivanja – Elektrootporno zavarivanje metalnih materijala – 2. dio: Osnovni zahtjevi za kvalitetu (ISO/FDIS 14554-2:2013)

prEN ISO 15012-4 en

Health and safety in welding and allied processes – Equipment for capture and separation of welding fume – Part 4: Design requirements  
(ISO/DIS 15012-4:2013)  
Zdravlje i sigurnost pri zavarivanju i srodnim postupcima – Oprema za odsisavanje i odvajanje dima pri zavarivanju – 4. dio: Zahtjevi za projektiranje (ISO/DIS 15012-4:2013)

prEN ISO 15614-1 rev en

Specification and qualification of welding procedures for metallic materials – Welding procedure test – Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO/DIS 15614-1:2013)  
Specifikacija i kvalifikacija postupaka zavarivanja za metalne materijale – Ispitivanje postupka zavarivanja – 1. dio: Elektrolučno i plinsko zavarivanje čelika te elektrolučno zavarivanje nikla i legura nikla  
(ISO/DIS 15614-1:2013)

prEN ISO 17643 en

Non-destructive testing of welds – Eddy current testing of welds by complex-plane analysis  
(ISO/DIS 17643:2013)  
Nerazorno ispitivanje zavarenih spojeva – Ispitivanje zavarenih spojeva vrtložnim strujama primjenom složene ravninske analize (ISO/DIS 17643:2013)

prEN ISO 17916 en

Safety of thermal cutting machines  
(ISO/DIS 17916:2013)  
Sigurnost strojeva za toplinsko rezanje  
(ISO/DIS 17916:2013)

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

prEN 16622 en

Hydraulic silica-calcium fume for concrete – Definitions, requirements and conformity criteria

#### **HZN/TO 92, Zaštita od požara**

FprEN 1364-3 en

Fire resistance tests for non-loadbearing elements – Part 3: Curtain walling – Full configuration (complete assembly)  
Ispitivanje otpornosti nenosivih elemenata na požar – 3. dio: Ovješene fasade – Potpuna postava (cijeli sustav)

FprEN 1364-4 en

Fire resistance tests for non-loadbearing elements – Part 4: Curtain walling – Part configuration  
Ispitivanje otpornosti nenosivih elemenata na požar – 4. dio: Ovješene fasade – Djelomična postava

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

ISO 5982:2001 en

Mechanical vibration and shock – Range of idealized values to characterize seated-body biodynamic response under vertical vibration  
Mehaničke vibracije i udari – Raspon idealiziranih vrijednosti koje karakteriziraju biodinamički odziv ljudskog tijela u sjedećem položaju uslijed vertikalnih vibracija

ISO 13091-1:2001+Amd 1:2010 en

Mechanical vibration – Vibrotactile perception thresholds for the assessment of nerve dysfunction – Part 1: Methods of measurement at the fingertips  
Mehaničke vibracije – Vibrotaktilne perceptivne granice za ocjenjivanje nervne disfunkcije – 1. dio: Metode mjerena na vršcima prstiju

ISO 13091-2:2003 en

Mechanical vibration – Vibrotactile perception thresholds for the assessment of nerve dysfunction – Part 2: Analysis and interpretation of measurements at the fingertips  
Mehaničke vibracije – Vibrotaktilne perceptivne granice za ocjenjivanje nervne disfunkcije – 2. dio: Analiza i interpretacija mjerena na vršcima prstiju

## HZN/TO 116, *Uređaji i oprema za izmjenu topline*

prEN 16647 en

Fireplaces for liquid fuels – Decorative appliances producing a flame using alcohol based or gelatinous fuel – Use in private households  
Kamini na tekuća goriva – Dekorativni uređaji koji stvaraju plamen upotrebom goriva na bazi alkohola ili želatine – Upotreba u kućanstvima

## HZN/TO 135, *Nerazorna ispitivanja*

prEN ISO 9934-1 en

Non-destructive testing – Magnetic particle testing – Part 1: General principles (ISO/DIS 9934-1:2013)  
Nerazorno ispitivanje – Ispitivanje magnetskim česticama – 1. dio: Opća načela (ISO/DIS 9934-1:2013)

prEN ISO 9934-2 en

Non-destructive testing – Magnetic particle testing – Part 2: Detection media (ISO/DIS 9934-2:2013)  
Nerazorno ispitivanje – Ispitivanje magnetskim česticama – 2. dio: Ispitna sredstva (ISO/DIS 9934-2:2013)

prEN ISO 9934-3 en

Non-destructive testing – Magnetic particle testing – Part 3: Equipment (ISO/DIS 9934-3:2013)  
Nerazorno ispitivanje – Ispitivanje magnetskim česticama – 3. dio: Oprema (ISO/DIS 9934-3:2013)

FprEN ISO 15548-1 en

Non-destructive testing – Equipment for eddy current examination – Part 1: Instrument characteristics and verification (ISO/FDIS 15548-1:2013)  
Nerazorno ispitivanje – Oprema za ispitivanje vrtložnim strujama – 1. dio: Karakteristike uređaja i njihova provjera (ISO/FDIS 15548-1:2013)

FprEN ISO 15548-2 en

Non-destructive testing – Equipment for eddy current examination – Part 2: Probe characteristics and verification (ISO/FDIS 15548-2:2013)  
Nerazorno ispitivanje – Oprema za ispitivanje vrtložnim strujama – 2. dio: Karakteristike sondi i njihova provjera (ISO/FDIS 15548-2:2013)

FprEN ISO 16810 en

Non-destructive testing – Ultrasonic testing – General principles (ISO 16810:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Opća načela (ISO 16810:2012)

FprEN ISO 16811 en

Non-destructive testing – Ultrasonic testing – Sensitivity and range setting (ISO 16811:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Podešavanje osjetljivosti i mjernoga područja (ISO 16811:2012)

FprEN ISO 16823 en

Non-destructive testing – Ultrasonic testing – Transmission technique (ISO 16823:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Tehnika prozvučivanjem (ISO 16823:2012)

FprEN ISO 16826 en

Non-destructive testing – Ultrasonic testing – Examination for discontinuities perpendicular to the surface (ISO 16826:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Ispitivanja nepravilnosti okomitih na površinu (ISO 16826:2012)

FprEN ISO 16827 en

Non-destructive testing – Ultrasonic testing – Characterization and sizing of discontinuities (ISO 16827:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Karakterizacija i određivanje veličine prekidnosti (ISO 16827:2012)

FprEN ISO 16828 en

Non-destructive testing – Ultrasonic testing – Time-of-flight diffraction technique as a method for detection and sizing of discontinuities (ISO 16828:2012)  
Nerazorno ispitivanje – Ultrazvučno ispitivanje – Tehnika difracije kao metoda pronalaženja i procjene veličine nepravilnosti (ISO 16828:2012)

prEN ISO 18490 en

Non-destructive Testing – Evaluation of vision acuity of NDT personnel (ISO/DIS 18490:2013)  
Nerazorno ispitivanje – Vrednovanje oštirine vida NDT osoblja (ISO/DIS 18490:2013)

prEN ISO 18563-1 en

Non-destructive testing – Characterization and verification of ultrasonic phased array systems – Part 1: Instruments (ISO/DIS 18563-1:2013)  
Nerazorno ispitivanje – Karakterizacija i provjeravanje ultrazvučnih višepretvorničkih, fazno upravljenih sustava – 1. dio: Instrumenti (ISO/DIS 18563-1:2013)

## HZN/TO 159, *Ergonomija*

CEN ISO/TR 9241-331:2013 en

Ergonomics of human-system interaction – Part 331: Optical characteristics of autostereoscopic displays (ISO/TR 9241-331:2012)  
Ergonomija interakcije čovjek-sustav – Dio 331: Optička svojstva zaslona za 3D prikaz bez optičkih pomagala (ISO/TR 9241-331:2012)

CEN ISO/TR 12296:2013 en

Ergonomics – Manual handling of people in the healthcare sector (ISO/TR 12296:2012)  
Ergonomija – Ručno prenošenje ljudi u zdravstvenom sektoru (ISO/TR 12296:2012)

## HZN/TO 207, *Upravljanje okolišem*

ISO 14066:2011 en

Greenhouse gases – Competence requirements for greenhouse gas validation teams and verification teams

## **HZN/TO 217, Kozmetika**

prEN ISO 17516 en  
Cosmetics – Microbiological limits  
Kozmetika – Mikrobiološki kriteriji

CEN ISO/TR 24475:2013 en  
Cosmetics – Good Manufacturing Practices – General training document (ISO/TR 24475:2010)  
Kozmetika – Dobra proizvodačka praksa – Dokument za opću obuku (ISO/TR 24475:2010)

## **HZN/TO 219, Podne obloge**

prEN 1269 en  
Textile floor coverings – Assessment of impregnations in needed floor coverings by means of a soiling test  
Tekstilne podne obloge – Ocjena impregnacije iglanih podnih obloga pomoću ispitivanja zemljom  
prEN 14499 en  
Textile floor coverings – Minimum requirements for carpet underlays  
Tekstilne podne obloge – Minimalni zahtjevi za podsloj tepisona

## **HZN/TO 502, Plinski uređaji**

EN 13278:2013 en  
Open fronted gas-fired independent space heaters  
Plinske konvekcijske grijalice prostorija s otvorenom komorom za izgaranje

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

prEN ISO 7500-1 en  
Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system (ISO/DIS 7500-1:2013)  
Metalni materijali – Provjeravanje statičkih jednoosnih ispitnih uređaja – 1. dio: Ispitni uređaji za vlačno/tlačno ispitivanje – Provjeravanje i umjeravanje sustava za mjerjenje sile (ISO/DIS 7500-1:2013)

FprEN ISO 8492 rev en  
Metallic materials – Tube – Flattening test (ISO/FDIS 8492:2013)  
Metalni materijali – Cijev – Ispitivanje sploštavanjem (ISO/FDIS 8492:2013)

FprEN ISO 8494 en  
Metallic materials – Tube – Flanging test (ISO/FDIS 8494:2013)  
Metalni materijali – Cijev – Ispitivanje zarubljivanjem (ISO/FDIS 8494:2013)

FprEN ISO 8495 en  
Metallic materials – Tube – Ring-expanding test (ISO/FDIS 8495:2013)  
Metalni materijali – Cijev – Ispitivanje proširivanjem trnom (ISO/FDIS 8495:2013)

FprEN ISO 8496 en  
Metallic materials – Tube – Ring tensile test (ISO/FDIS 8496:2013)  
Metalni materijali – Cijev – Ispitivanje razvlačenjem prstena (ISO/FDIS 8496:2013)

prEN 10027-2 rev en  
Designation systems for steels – Part 2: Numerical system  
Sustavi označivanja čelika – 2. dio: Brojčani sustav

prEN 10139 en  
Cold rolled uncoated mild steel narrow strip for cold forming – Technical delivery conditions  
Hladno valjane trake bez prevlaka od mekih čelika za hladno oblikovanje – Tehnički uvjeti isporuke

prEN 10359 en  
Laser welded tailored blanks – Technical delivery conditions  
Laserski zavareni umeci, krojeni po mjeri (tailored blanks) – Tehnički uvjeti isporuke

FprEN 13599 rev en

Copper and copper alloys – Copper plate, sheet and strip for electrical purposes  
Bakar i legure bakra – Bakrene ploče, limovi i trake za primjenu u elektrotehnici

FprEN ISO 20482 rev en

Metallic materials – Sheet and strip – Erichsen cupping test (ISO/FDIS 20482:2013)  
Metalni materijali – Limovi i trake – Ispitivanje prema Erichsenu (ISO/FDIS 20482:2013)

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

prEN ISO 4528 en

Vitreous and porcelain enamel finishes – Guide to selection of test methods for vitreous and porcelain enamelled areas of articles (ISO/DIS 4528:2013)  
Staklaste i porculanske emajlirane površine – Smjernice za odabir metoda ispitivanja za staklaste i porculanske emajlirane dijelove proizvoda (ISO/DIS 4528:2013)

prEN ISO 7441 en

Corrosion of metals and alloys – Determination of bimetallic corrosion in outdoor exposure corrosion tests (ISO/DIS 7441:2013)  
Korozija metala i legura – Određivanje bimetalne korozije koroziskim ispitivanjima u uvjetima vanjske izloženosti (ISO/DIS 7441:2013)

FprEN ISO 8407 en

Corrosion of metals and alloys – Removal of corrosion products from corrosion test specimens (ISO 8407:2009)  
Korozija metala i legura – Uklanjanje koroziskih produkata s uzorka za ispitivanje korozije (ISO 8407:2009)

FprEN ISO 11474 en

Corrosion of metals and alloys – Corrosion tests in artificial atmosphere – Accelerated outdoor test by intermittent spraying of a salt solution (Scab test) (ISO 11474:1998)  
Korozija metala i legura – Korozisko ispitivanje u umjetnoj atmosferi – Ubrzano vanjsko ispitivanje povremenim prskanjem slanom otopinom (Scab-test) (ISO 11474:1998)

FprEN ISO 15589-2 en

Petroleum, petrochemical and natural gas industries – Cathodic protection of pipeline transportation systems – Part 2: Offshore pipelines (ISO 15589-2:2012)  
Industrija nafte, petrokemijska industrija i industrija prirodnoga plina – Katodna zaštita cjevovodnih transportnih sustava – 2. dio: Odobalni cjevovodi (ISO 15589-2:2012)

## **HZN/TO 521, Usluge održavanja**

prEN 15628 en

Maintenance – Qualification of maintenance personnel  
Održavanje – Osposobljavanje djelatnika održavanja

prEN 16646 en

Maintenance – Maintenance within physical asset management

## **HZN/TO 522, Karakterizacija i zbrinjavanje otpada**

prEN 14429 en

Characterisation of waste – Leaching behaviour test – Influence of pH on leaching with initial acid/base addition  
Karakterizacija otpada – Ispitivanje ponasanja pri izluživanju – Utjecaj pH-vrijednosti na izluživanje uz početni dodatak kiseline/luzine

prEN 14997 en

Characterisation of waste – Leaching behaviour test  
– Influence of pH on leaching with continuous pH control  
Karakterizacija otpada – Ispitivanja ponašanja pri izluživanju – Utjecaj pH na procjedivanje uz kontinuiranu kontrolu pH vrijednosti

prEN 15863 en

Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic monolithic leaching test with periodic leachant renewal, under fixed conditions  
Karakterizacija otpada – Ispitivanje ponašanja pri izluživanju za osnovnu karakterizaciju – Dinamička provjera monolitnog izluživanja s periodičnom obnovom lužine pri stalnim uvjetima ispitivanja

prEN 16660 en

Characterisation of waste – Leaching behaviour test – Determination of the reducing character and the reducing capacity

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

FprEN 14067-4 en

Railway applications – Aerodynamics – Part 4: Requirements and test procedures for aerodynamics on open track  
Oprema za željeznice – Aerodinamika – 4. dio: Zahtjevi i ispitni postupci za aerodinamiku na otvorenoj pruzi

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

prEN 16615 en

Chemical disinfectants and antiseptics – Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4- field test) – Test method and requirements (phase 2, step 2)

Kemijski dezinficijensi i antiseptici – Kvantitativni test za procjenu baktericidne djelotvornosti ili djelotvornosti protiv kvasaca mehaničkim djelovanjem brisanjem na neporoznim površinama koji se upotrebljavaju u medicini (ispitivanje na 4 zone) – Metoda ispitivanja i zahtjevi (faza 2, korak 2)

prEN 16616 en

Chemical disinfectants and antiseptics – Chemical-thermal textile disinfection – Test method and requirements (phase 2, step 2)

Kemijski dezinficijensi i antiseptici – Kemijsko-toplinska dezinfekcija tekstila – Metoda ispitivanja i zahtjevi (faza 2, korak 2)

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

EN 15632-1:2009/prA1 en

District heating pipes – Pre-insulated flexible pipe systems – Part 1: Classification, general requirements and test methods

Cijevi za daljinsko grijanje – Sustavi predizoliranih savitljivih cijevi – 1. dio: Razredba, opći zahtjevi i metode ispitivanja

EN 15632-2:2010/prA1 en

District heating pipes – Pre-insulated flexible pipe systems – Part 2: Bonded plastic service pipes – Requirements and test methods

Cijevi za daljinsko grijanje – Sustavi predizoliranih savitljivih cijevi – 2. dio: Predizolirane plastične cijevi – Zahtjevi i metode ispitivanja

EN 15632-3:2010/prA1 en

District heating pipes – Pre-insulated flexible pipe systems – Part 3: Non bonded system with plastic service pipes – Requirements and test methods

Cijevi za daljinsko grijanje – Sustavi predizoliranih savitljivih cijevi – 3. dio: Nespojeni sustav s plastičnim cijevima – Zahtjevi i metode ispitivanja

prEN ISO 16170 en

In situ test methods for very high efficiency filter systems in industrial facilities (ISO/DIS 16170:2013)  
Metode ispitivanja na licu mesta za visoko učinkovite filterske sustave u industrijskim postrojenjima (ISO/DIS 16170:2013)

prEN 16644 en

Pumps – Rotodynamic pumps – Glandless circulators having a rated power input not exceeding 200 W for heating installations and domestic hot water installations – Noise test code (vibro-acoustics) for measuring structure- and fluid-borne noise

Pumpe – Rotacijske pumpe – Cirkulacijske pumpe nazivne snage do 200 W za sustave grijanja i pripreme potrošne tople vode – Ispitno pravilo (vibroakustika) za mjerjenje buke pumpe i buke kapljevine

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

EN 1991-1-3:2003/prA1 en

Eurocode 1: Actions on structures – Part 1-3: General actions – Snow loads  
Eurocod 1: Djelovanja na konstrukcije – Dio 1-3: Opća djelovanja – Opterećenja snijegom

EN 1991-1-7:2006/FprA1 en

Eurocode 1: Actions on structures – Part 1-7: General actions – Accidental actions  
Eurocod 1: Djelovanja na konstrukcije – Dio 1-7: Opća djelovanja – Izvanredna djelovanja

EN 1992-1-1:2004/prA1 en

Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings  
Eurocod 2: Projektiranje betonskih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade

prEN 1992-4 en

Eurocode 2: Design of concrete structures – Part 4: Design of fastenings for use in concrete  
Eurocod 2: Projektiranje betonskih konstrukcija – 4. dio: Projektiranje pričvršćivača za upotrebu u betonu

EN 1995-1-1:2004/FprA2 en

Eurocode 5: Design of timber structures – Part 1-1: General – Common rules and rules for buildings  
Eurocod 5: Projektiranje drvenih konstrukcija – Dio 1-1: Općenito – Opća pravila i pravila za zgrade

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

prEN 13032-4 en

Light and lighting – Measurement and presentation of photometric data – Part 4: LED lamps, modules and luminaires

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

FprEN 15362 en

Chemicals used for treatment of swimming pool water – Sodium carbonate  
Kemikalije koje se upotrebljavaju u obradi vode bazena za plivanje – Natrijev karbonat

FprEN 15363 en

Chemicals used for treatment of swimming pool water – Chlorine  
Kemikalije koje se upotrebljavaju u obradi vode bazena za plivanje – Klor

FprEN 15514 en

Chemicals used for treatment of swimming pool water – Hydrochloric acid  
Kemikalije koje se upotrebljavaju u obradi vode bazena za plivanje – Kloridna kiselina

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

prEN ISO/IEC 80369-3 en

Small-bore connectors for liquids and gases in healthcare applications – Part 3: Connectors for enteral applications (ISO/IEC/DIS 80369-3:2013)  
Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 3. dio: Spojnici za enteralnu primjenu (ISO/IEC/DIS 80369-3:2013)

prEN ISO/IEC 80369-7 en

Small bore connectors for liquids and gases in healthcare applications – Part 7: Connectors with 6% (Luer) taper for intravascular or hypodermic applications (ISO/IEC/DIS 80369-7)  
Spojnici malog promjera za tekućine i plinove za primjenu u zdravstvu – 7. dio: Spojnici sa 6-postotnim (Luer) nastavkom za intravaskularnu i potkožnu primjenu (ISO/IEC/DIS 80369-7)

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

EN 13547:2013 en

Industrial valves – Copper alloy ball valves  
Industrijski zaporni uređaji – Kuglaste slavine od bakrenih slitina

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

prEN 764-1 en

Pressure equipment – Part 1: Vocabulary  
Tlačna oprema – 1. dio: Terminološki rječnik

prEN 12953-3 en

Shell boilers – Part 3: Design and calculation for pressure parts  
Dimnocijевni kotlovi – 3. dio: Konstrukcija i proračun dijelova pod tlakom

prEN 14912 en

LPG equipment and accessories – Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders  
Oprema i pribor za UNP – Pregled i održavanje ventila boca za UNP tijekom periodičnog pregleda boca

prEN 16631 en

LPG equipment and accessories – Pressure relief valves for LPG pressure vessels – Reconditioning requirements  
Oprema i pribor za UNP – Sigurnosni ventili tlačnih posuda za UNP – Zahtjevi za obnavljanje

prEN 16652-1 en

LPG equipment and accessories – Automotive LPG vehicles workshops – Part 1: Working areas and procedures  
Oprema i pribor za UNP – Radionice za motorna vozila na UNP – 1. dio: Radna područja i postupci

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

EN 15583-2:2012 en

Winter maintenance equipment – Snow ploughs – Part 2: Testing criteria and their requirements  
Oprema za zimsko održavanje – Plugovi za snijeg – 2. dio: Kriterij ispitivanja i njegovi zahtjevi

EN 15906:2011 en

Winter maintenance equipment – Snow removal machines with rotating tools – Specification and clearing capacity  
Oprema za zimsko održavanje – Strojevi za čišćenje snijega s rotirajućim alatima – Specifikacija i kapacitet čišćenja

## **HZN/TO 568, Analize hrane – Horizontalne metode**

EN 16466-1:2013 en

Vinegar – Isotopic analysis of acetic acid and water – Part 1: 2H-NMR analysis of acetic acid  
Ocat – Izotopna analiza octene kiseline i vode – 1. dio: 2H-NMR analiza octene kiseline

EN 16466-2:2013 en

Vinegar – Isotopic analysis of acetic acid and water – Part 2: 13C-IRMS analysis of acetic acid  
Ocat – Izotopna analiza octene kiseline i vode – 2. dio: 13C-IRMS analiza octene kiseline

EN 16466-3:2013 en

Vinegar – Isotopic analysis of acetic acid and water – Part 3: 18O-IRMS analysis of water in wine vinegar  
Ocat – Izotopna analiza octene kiseline i vode – 3. dio: 18O-IRMS analiza vode u vinskom octu

ISO/TS 21569-2:2012 en

Horizontal methods for molecular biomarker analysis – Methods of analysis for the detection of genetically modified organisms and derived products – Part 2: Construct-specific real-time PCR method for detection of event FP967 in linseed and linseed products  
Horizontalne metode za analizu molekularnim biomarkerima – Metode analize za dokazivanje prisutnosti genetički modificiranih organizama i od njih dobivenih proizvoda – 2. dio: Construct specifična PCR metoda u stvarnom vremenu za otkrivanje prisutnosti FP967 u lanenom sjemenu i proizvodima od lana

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

EN 13451-3:2011+A1:2013 en

Swimming pool equipment – Part 3: Additional specific safety requirements and test methods for inlets and outlets and water/air based water leisure features  
Oprema za bazene – 3. dio: Dodatni posebni sigurnosni zahtjevi i metode ispitivanja za dovode i odvode i vodne/zračne atrakcije

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

EN 62598:2013 en

Nuclear instrumentation – Constructional requirements and classification of radiometric gauges (IEC 62598:2011)  
Nuklearna instrumentacija – Konstruktivni zahtjevi i razdoblja radiometrijskih mjeraca (IEC 62598:2011)

## **HZN/TO E55, Žice za namote**

EN 60172:1994/A2:2010 en

Test procedure for the determination of the temperature index of enamelled winding wires (IEC 60172:1987/am2:2010)  
Ispitni postupak određivanja indeksa temperaturne lakirane žice za namote (IEC 60172:1987/am2:2010)

EN 60264-1:1994/A1:2009 en

Packaging of winding wires – Part 1: Containers for round winding wires (IEC 60264-1:1968/am1:2009)  
Pakiranje žice za namote – 1. dio: Ambalaža za okrugle žice za namote (IEC 60264-1:1968/am1:2009)

EN 60264-4-1:2010 en

Packaging of winding wires – Part 4-1: Methods of test – Delivery spools made from thermoplastic materials (IEC 60264-4-1:1997+am1:2009)  
Pakiranje žice za namote – Dio 4-1: Metode ispitivanja – Koluti za isporuku od termoplastičnih materijala (IEC 60264-4-1:1997+am1:2009)

- EN 60317-8:2010 en  
 Specifications for particular types of winding wires –  
 Part 8: Polyesterimide enamelled round copper wire,  
 class 180 (IEC 60317-8:2010)  
 Specifikacije pojedinih vrsta žica za namote – 8. dio:  
 Poliesterimidom lakirana okrugla bakrena žica,  
 razreda 180 (IEC 60317-8:2010)
- EN 60317-12:2010 en  
 Specifications for particular types of winding wires  
 – Part 12: Polyvinyl acetal enamelled round copper  
 wire, class 120 (IEC 60317-12:2010)  
 Specifikacije pojedinih vrsta žica za namote – 12. dio:  
 Polivinil acetalom lakirana okrugla bakrena žica,  
 razreda 120 (IEC 60317-12:2010)
- EN 60317-13:2010 en  
 Specifications for particular types of winding wires –  
 Part 13: Polyester or polyesterimide overcoated with  
 polyamide-imide enamelled round copper wire, class  
 200 (IEC 60317-13:2010)  
 Specifikacije pojedinih vrsta žica za namote – 13. dio:  
 Poliesterom ili poliesterimidom lakirana, prekrivena  
 poliamid-imidom, okrugla bakrena žica, razreda 200  
 (IEC 60317-13:2010)
- EN 60317-15:2004/A1:2010 en  
 Specifications for particular types of winding wires –  
 Part 15: Polyesterimide enamelled round aluminium  
 wire, class 180 (IEC 60317-15:2004/am1:2010)  
 Specifikacije pojedinih vrsta žica za namote – 15. dio:  
 Poliesterimidom lakirana okrugla aluminijска žica,  
 razreda 180 (IEC 60317-15:2004/am1:2010)
- EN 60317-17:2010 en  
 Specifications for particular types of winding wires  
 – Part 17: Polyvinyl acetal enamelled rectangular  
 copper wire, class 105 (IEC 60317-17:2010)  
 Specifikacije pojedinih vrsta žica za namote – 17. dio:  
 Polivinil acetalom lakirana profilna bakrena žica,  
 razreda 105 (IEC 60317-17:2010)
- EN 60317-18:2004/A1:2010 en  
 Specifications for particular types of winding wires  
 – Part 18: Polyvinyl acetal enamelled rectangular  
 copper wire, class 120 (IEC 60317-18:2004/am1:2009)  
 Specifikacije pojedinih vrsta žica za namote – 18. dio:  
 Polivinil acetalom lakirana profilna bakrena žica,  
 razreda 120 (IEC 60317-18:2004/am1:2009)
- EN 60317-22:2004/A1:2010 en  
 Specifications for particular types of winding wires –  
 Part 22: Polyester or polyesterimide enamelled round  
 copper wire overcoated with polyamide, class 180  
 (IEC 60317-22:2004/am1:2009)  
 Specifikacije pojedinih vrsta žica za namote – 22. dio:  
 Poliester ili poliesterimidom lakirana okrugla bakrena  
 žica, prekrivena poliamidom, razreda 180 (IEC  
 60317-22:2004/am1:2009)
- EN 60317-25:2010 en  
 Specifications for particular types of winding wires –  
 Part 25: Polyester or polyesterimide overcoated with  
 polyamide-imide enamelled round aluminium wire,  
 class 200 (IEC 60317-25:2010)  
 Specifikacije pojedinih vrsta žica za namote – 25. dio:  
 Poliester ili poliesterimidom lakirana okrugla  
 aluminijска žica, prekrivena poliamid imidom, razreda  
 200 (IEC 60317-25:2010)
- EN 60317-26:1996/A2:2010 en  
 Specifications for particular types of winding wires –  
 Part 26: Polyamide-imide enamelled round copper  
 wire, class 200 (IEC 60317-26:1990/am2:2010)  
 Specifikacije pojedinih vrsta žica za namote – 26. dio:  
 Poliamid imidom lakirana okrugla bakrena žica,  
 razreda 200 (IEC 60317-26:1990/am2:2010)
- EN 60317-29:1996/A2:2010 en  
 Specifications for particular types of winding wires –  
 Part 29: Polyester or polyesterimide overcoated with  
 polyamide-imide enamelled rectangular copper wire,  
 class 200 (IEC 60317-29:1990/am2:2010)
- EN 60317-29:1996/A2:2010 en  
 Specifikacije pojedinih vrsta žica za namote – 29. dio:  
 Poliester ili poliesterimidom lakirana profilna bakrena  
 žica, prekrivena poliamid imidom, razreda 200  
 (IEC 60317-29:1990/am2:2010)
- EN 60317-42:1997/A1:2010 en  
 Specifications for particular types of winding wires  
 – Part 42: Polyester-amide-imide enamelled round  
 copper wire, class 200  
 (IEC 60317-42:1997/am1:2010)  
 Specifikacije pojedinih vrsta žica za namote – 42. dio:  
 Poliester-amid-imidom lakirana okrugla bakrena žica,  
 razreda 200 (IEC 60317-42:1997/am1:2010)
- EN 60317-43:1997/A1:2010 en  
 Specifications for particular types of winding wires  
 – Part 43: Aromatic polyimide tape wrapped round  
 copper wire, class 240  
 (IEC 60317-43:1997/am1:2010)  
 Specifikacije pojedinih vrsta žica za namote – 43. dio:  
 Okrugla bakrena lakirana žica, omotana trakama od  
 aromatskog poliimida, razreda 240  
 (IEC 60317-43:1997/am1:2010)
- EN 60317-44:1997/A1:2010 en  
 Specifications for particular types of winding wires –  
 Part 44: Aromatic polyimide tape wrapped rectangular  
 copper wire, class 240  
 (IEC 60317-44:1997/am1:2010)  
 Specifikacije pojedinih vrsta žica za namote – 44. dio:  
 Profilna bakrena lakirana žica, omotana trakama od  
 aromatskog poliimida, razreda 240  
 (IEC 60317-44:1997/am1:2010)
- EN 60317-48:2012 en  
 Specifications for particular types of winding wires  
 – Part 48: Glass-fibre wound resin or varnish  
 impregnated, bare or enamelled round copper wire,  
 temperature index 155 (IEC 60317-48:2012)  
 Specifikacije pojedinih vrsta žica za namote – 48. dio:  
 Nelakirana ili lakirana profilna bakrena žica, omotana  
 staklenim vlaknima i impregnirana smolom ili lakom,  
 indeksa temperature 155 (IEC 60317-48:2012)
- EN 60317-57:2010 en  
 Specifications for particular types of winding wires –  
 Part 57: Polyamide-imide enamelled round copper  
 wire, class 220 (IEC 60317-57:2010)  
 Specifikacije pojedinih vrsta žica za namote – 57. dio:  
 Poliamid-imide lakirana okrugla bakrena žica, razreda  
 220 (IEC 60317-57:2010)
- EN 60317-58:2010 en  
 Specifications for particular types of winding wires  
 – Part 58: Polyamide-imide enamelled rectangular  
 copper wire, class 220 (IEC 60317-58:2010)  
 Specifikacije pojedinih vrsta žica za namote – 58. dio:  
 Poliamid-imidom lakirana profilna bakrena žica,  
 razreda 220 (IEC 60317-58:2010)
- EN 60851-1:1996/A2:2009 en  
 Winding wires – Test methods – Part 1: General  
 (IEC 60851-1:1996/am2:2009)  
 Žice za namote – Ispitne metode – 1. dio: Općenito  
 (IEC 60851-1:1996/am2:2009)
- EN 60851-2:2009 en  
 Winding wires – Test methods – Part 2: Determination  
 of dimensions (IEC 60851-2:2009)  
 Žice za namote – Ispitne metode – 2. dio: Određivanje  
 dimenzija (IEC 60851-2:2009)
- EN 60851-5:2008/A1:2011 en  
 Winding wires – Test methods – Part 5: Electrical  
 properties (IEC 60851-5:2008/am1:2011)  
 Žice za namote – Ispitne metode – 5. dio: Električna  
 svojstva (IEC 60851-5:2008/am1:2011)

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

CLC/TR 61158-1:2010 en

Industrial communication networks – Fieldbus specifications – Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series  
(IEC/TR 61158-1:2010)

Industrijske komunikacijske mreže – Specifikacije industrijske sabirnice (fieldbus) – 1. dio: Pregled i upute za niz norma IEC 61158 i IEC 61784  
(IEC/TR 61158-1:2010)

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

EN 61236:2011 en

Live working – Saddles, stick clamps and their accessories (IEC 61236:2010)  
Rad pod naponom – Sedla, štapovi i njihov pribor (IEC 61236:2010)

## **HZN/TO E103, Odašiljačka oprema za radiokomunikacije**

EN 62553:2013 en

Methods of measurement for digital network – Performance characteristics of terrestrial digital multimedia transmission network (IEC 62553:2012)  
Metode mjerenja digitalne mreže – Radne značajke zemaljske prijenosne mreže digitalne multimedijske (IEC 62553:2012)

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

EN 50413:2008/A1:2013 en

Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)  
Osnovna norma za postupke mjerenja i proračuna izloženosti ljudi električnim, magnetskim i elektromagnetskim poljima (0 Hz - 300 GHz)

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

EN 301 025-2 V1.5.1:2013 en

Electromagnetic compatibility and Radio spectrum Matters (ERM) – VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC) – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – VHF radiotelefonska oprema za opće komunikacije i pridružena oprema za klasu "D" digitalnoga selektivnog poziva (DSC) – 2. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 direktrive R&TTE

EN 301 025-3 V1.5.1:2013 en

Electromagnetic compatibility and Radio spectrum Matters (ERM) – VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC) – Part 3: Harmonized EN covering the essential requirements of article 3.3(e) of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – VHF radiotelefonska oprema za opće komunikacije i pridružena oprema za klasu "D" digitalnoga selektivnog poziva (DSC) – 3. dio: Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.3(e) direktrive R&TTE

EN 301 444 V1.2.2:2013 en

Satellite Earth Stations and Systems (SES) – Harmonized EN for Land Mobile Earth Stations (LMES) operating in the 1,5 GHz and 1,6 GHz bands providing voice and/or data communications covering essential requirements of article 3.2 of the R&TTE directive

Satelitske zemaljske postaje i sustavi (SES) – Harmonizirana europska norma, za kopnene pokretnе zemaljske postaje (LMES) koje rade u pojasmovima od 1,5 GHz i 1,6 GHz za glasovnu i podatkovnu komunikaciju, koja obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE

EN 302 571 V1.2.1:2013 en

Intelligent Transport Systems (ITS) – Radiocommunications equipment operating in the 5855 MHz to 5925 MHz frequency band – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Inteligentni prometni sustavi (ITS) – Radiokomunikacijska oprema u frekvencijskom pojasu 5855 MHz do 5925 MHz – Harmonizirana europska norma koja obuhvaća bitne zahtjeve iz članka 3.2 R&TTE direktive

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

ISO/IEC 7812-1:2006 en

Identification cards – Identification of issuers – Part 1: Numbering system

ISO/IEC 7812-2:2007 en

Identification cards – Identification of issuers – Part 2: Application and registration procedures

ISO/IEC 7816-5:2004 en

Identification cards – Integrated circuit cards – Part 5: Registration of application providers

CWA 14167-1:2003 en

Security Requirements for Trustworthy Systems  
Managing Certificates for Electronic Signatures – Part 1: System Security Requirements

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

EN 131-2:2010+A1:2012/prA2 en

Ladders – Part 2: Requirements, testing, marking  
Ljestve – 2. dio: Zahtjevi, ispitivanje, označivanje

prEN 131-6 en

Ladders – Part 6: Telescopic ladders

prEN 16489-2 en

Professional indoor UV exposure services – Part 2:  
Required qualification and competence of the indoor UV exposure consultant

prEN 16489-3 en

Professional indoor UV exposure services – Part 3:  
Requirements for the provision of services

prEN 16636 en

Pest management services – Requirements and competences

prEN 16654 en

Child protective products – Consumer fitted finger protection devices for doors – Safety requirements and test methods

FprCEN/TS 16665 en

Standing ladder durability test specification

## **HZN/TU I3, Strojarstvo 3**

FprEN 1300 en

Secure storage units – Classification for high security locks according to their resistance to unauthorized opening

Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje

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

EN 3354:2013 en

Aerospace series – Titanium alloy Ti-6Al-4V – Annealed – Sheet for superplastic forming - a = 6 mm  
Nizovi o zrakoplovstvu – Legura titana Ti-6Al-4V – Kaljena – Ploča za superplastično oblikovanje - a = 6 mm

EN 3813:2013 en

Aerospace series – Titanium alloy Ti-P64001 (Ti-6Al-4V) – Annealed – Bar and wire for forged fasteners  
- De = 50 mm  
Nizovi o zrakoplovstvu – Legura titana Ti-P64001 (Ti-6Al-4V) – Kaljena – Šipka i žica za kovane stezače  
- De = 50 mm

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

CLC/TR 50436-3:2010 en

Alcohol interlocks – Test methods and performance requirements – Part 3: Guidance for decision makers, purchasers and users  
Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 3. dio: Upute za donositelje odluka, kupce i korisnike

EN 60068-2-57:2013 en

Environmental testing – Part 2-57: Tests – Test Ff: Vibration – Time-history and sine-beat method (IEC 60068-2-57:2013)  
Ispitivanje utjecaja okoliša – Dio 2-57: Ispitivanja – Ff ispitivanje: Vibracije – Metoda vrijeme-povijest (IEC 60068-2-57:2013)

## **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 28, Naftni proizvodi i maziva**

HRN EN 15721:2009 en

Etanol kao komponenta koja se namješava u benzin – Određivanje viših alkohola, metanola i isparivih nečistoća – Metoda plinske kromatografije (EN 15721:2009)  
Ethanol as a blending component for petrol – Determination of higher alcohols, methanol and volatile impurities – Gas chromatographic method (EN 15721:2009)  
- zamijenjena s: HRN EN 15721:2013

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

HRN EN 13136:2004 en

Rashladni sustavi i dizalice topline – Tlačni prostrujni uređaji i pripadajući cjevovodi – Metode proračuna (EN 13136:2001)  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Methods for calculation (EN 13136:2001)  
- zamijenjena s: HRN EN 13136:2013

HRN EN 13136:2004/A1:2008 en

Rashladni sustavi i dizalice topline – Tlačni prostrujni uređaji i pripadajući cjevovodi – Metode proračuna (EN 13136:2001/A1:2005)  
Refrigerating systems and heat pumps – Pressure relief devices and their associated piping – Method for calculation (EN 13136:2001/A1:2005)  
- zamijenjena s: HRN EN 13136:2013

HRN EN 14511-1:2012 en

Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 1. dio: Nazivi i definicije (EN 14511-1:2011)

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms and definitions (EN 14511-1:2011)

- zamijenjena s: HRN EN 14511-1:2013

HRN EN 14511-4:2012 en

Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 4. dio: Zahtjevi (EN 14511-4:2011)

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Requirements (EN 14511-4:2011)

- zamijenjena s: HRN EN 14511-4:2013

## **HZN/TO 147/PO 2, Kvaliteta vode; Fizikalno-kemijske metode ispitivanja**

HRN EN 25814:1998 en

Kakvoća vode – Određivanje otopljenog kisika – Elektrokemijska metoda (ISO 5814:1990; EN 25814:1992)

Water quality – Determination of dissolved oxygen – Electrochemical probe method (ISO 5814:1990; EN 25814:1992)

- zamijenjena s: HRN EN ISO 5814:2013

## **HZN/TO 147/PO 6, Kvaliteta vode; Uzorkovanje (opće metode)**

HRN EN ISO 5667-3:2008 en

Kakvoća vode – Uzorkovanje – 3. dio: Smjernice za čuvanje uzoraka i rukovanje uzorcima (ISO 5667-3:2003; EN ISO 5667-3:2003)

Water quality – Sampling – Part 3: Guidance on the preservation and handling of water samples (ISO 5667-3:2003; EN ISO 5667-3:2003)

- zamijenjena s: HRN EN ISO 5667-3:2013

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

HRN EN ISO 6341:2000 en

Kakvoća vode – Određivanje inhibicije pokretljivosti Daphnia magna Straus (Cladocera, Crustacea) – Test akutne toksičnosti (ISO 6341:1996+Cor 1:1998; EN ISO 6341:1996+AC:1998)

Water quality – Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) – Acute toxicity test (ISO 6341:1996+Cor 1:1998; EN ISO 6341:1996+AC:1998)

- zamijenjena s: HRN EN ISO 6341:2013

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

HRN EN 12016:2008 en

Elektromagnetska kompatibilnost – Norma porodice proizvoda za dizala, pokretnе stube i putničke transportere – Otpornost (EN 12016:2004+A1:2008)

Electromagnetic compatibility – Product family standard for lifts, escalators and moving walks – Immunity (EN 12016:2004+A1:2008)

- zamijenjena s: HRN EN 12016:2013

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

HRN EN 12007-1:2001 en

Plinski opskrbni sustavi – Cjevovodi za maksimalni radni tlak do i uključivo 16 bar – 1. dio: Opće funkcionalne preporuke (EN 12007-1:2000)  
Gas supply systems – Pipelines for maximum operating pressure up to and including 16 bar – Part 1: General functional recommendations  
(EN 12007-1:2000)

- zamijenjena s: HRN EN 12007-1:2013

HRN EN 12007-2:2001 en

Plinski opskrbni sustavi – Cjevovodi za maksimalni radni tlak do i uključivo 16 bar – 2. dio: Posebne funkcionalne preporuke za polietilen (MRT do i uključivo 10 bar) (EN 12007-2:2000)  
Gas supply systems – Pipelines for maximum operating pressure up to and including 16 bar – Part 2: Specific functional recommendations for polyethylene (MOP up to and including 10 bar) (EN 12007-2:2000)

- zamijenjena s: HRN EN 12007-2:2013

HRN EN 12007-4:2001 en

Plinski opskrbni sustavi – Cjevovodi za maksimalni radni tlak do i uključivo 16 bara – 4. dio: Posebne funkcionalne preporuke za renoviranje (EN 12007-4:2000)

Gas supply systems – Pipelines for maximum operating pressure up to and including 16 bar – Part 4: Specific functional recommendations for renovation (EN 12007-4:2000)

- zamijenjena s: HRN EN 12007-4:2013

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

HRN EN ISO 6974-1:2008 en

Prirodni plin – Određivanje sastava s određenom nesigurnošću plinskom kromatografijom – 1. dio: Upute za provedbu analiza (ISO 6974-1:2000; EN ISO 6974-1:2001)

Natural gas – Determination of composition with defined uncertainty by gas chromatography – Part 1: Guidelines for tailored analysis (ISO 6974-1:2000; EN ISO 6974-1:2001)

- zamijenjena s: HRN EN ISO 6974-1:2013

HRN EN ISO 6974-2:2008 en

Prirodni plin – Određivanje sastava s određenom nesigurnošću plinskom kromatografijom – 2. dio: Karakteristike mjernih sustava i statistika za obradu podataka (ISO 6974-2:2001; EN ISO 6974-2:2002)

Natural gas – Determination of composition with defined uncertainty by gas chromatography – Part 2: Measuring-system characteristics and statistics for processing of data (ISO 6974-2:2001; EN ISO 6974-2:2002)

- zamijenjena s: HRN EN ISO 6974-2:2013

HRN EN ISO 10723:2008 en

Prirodni plin – Procjena mogućnosti procesnih analitičkih sustava (ISO 10723:1995+Cor 1:1998; EN ISO 10723:2002+AC:2004)

Natural gas – Performance evaluation for on-line analytical systems (ISO 10723:1995+Cor 1:1998; EN ISO 10723:2002+AC:2004)

- zamijenjena s: HRN EN ISO 10723:2013

HRN EN ISO 13705:2007 en

Industrija naftne, petrokemije i prirodnog plina – Procesne peći za opću rafinerijsku namjenu (ISO 13705:2006; EN ISO 13705:2006)

Petroleum, petrochemical and natural gas industries – Fired heaters for general refinery service (ISO 13705:2006; EN ISO 13705:2006)

- zamijenjena s: HRN EN ISO 13705:2013

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

HRN EN 12228:2003 en

Površine sportskih terena – Određivanje čvrstoće spoja sintetičkih obloga (EN 12228:2002)  
Surfaces for sports areas – Determination of joint strength of synthetic surfaces (EN 12228:2002)  
- zamijenjena s: HRN EN 12228:2013

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

HRN EN 12098-1:2003 en

Regulacija sustava grijanja – 1. dio: Uredaji za kontrolu sustava toplovodnog grijanja s kompenzacijom prema vanjskoj temperaturi (EN 12098-1:1996)  
Controls for heating systems – Part 1: Outside temperature compensated control equipment for hot water heating systems (EN 12098-1:1996)

- zamijenjena s: HRN EN 12098-1:2013

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

HRN EN 13508-1:2006 en

Uvjeti za sustave odvodnje izvan zgrada – 1. dio: Opći zahtjevi (EN 13508-1:2003)  
Condition of drain and sewer systems outside buildings – Part 1: General requirements (EN 13508-1:2003)

- zamijenjena s: HRN EN 13508-1:2013

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

HRN EN ISO 10993-10:2011 en

Biološka procjena medicinskih proizvoda – 10. dio: Ispitivanja za iritaciju i osjetljivost kože (ISO 10993-10:2010; EN ISO 10993-10:2010)  
Biological evaluation of medical devices – Part 10: Tests for irritation and skin sensitization (ISO 10993-10:2010; EN ISO 10993-10:2010)

- zamijenjena s: HRN EN ISO 10993-10:2013

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

HRN EN 1983:2008 en

Industrijski ventili – Čelični kuglasti ventili (EN 1983:2006)  
Industrial valves – Steel ball valves (EN 1983:2006)

- zamijenjena s: HRN EN 1983:2013

HRN EN 13774:2003 en

Ventili za distribucijske sustave plina s maksimalnim radnim tlakom manjim ili jednakim 16 bar – Radni zahtjevi (EN 13774:2003)  
Valves for gas distribution systems with maximum operating pressure less than or equal to 16 bar – Performance requirements (EN 13774:2003)

- zamijenjena s: HRN EN 13774:2013

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

HRN EN ISO 12209-1:2003 en

Plinske boce – Izlazni priključci ventila plinskih boca za zrak za disanje – 1. dio: Jaramski priključak (ISO 12209-1:2000; EN ISO 12209-1:2000)  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air – Part 1: Yoke type connections (ISO 12209-1:2000; EN ISO 12209-1:2000)

- zamijenjena s: HRN EN ISO 12209:2013

HRN EN ISO 12209-2:2003 en  
Plinske boce – Izlazni priključci ventila plinskih boca za zrak za disanje – 2. dio: Navojni priključci (ISO 12209-2:2000; EN ISO 12209-2:2000)  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air – Part 2: Threaded connections (ISO 12209-2:2000; EN ISO 12209-2:2000)  
- zamijenjena s: HRN EN ISO 12209:2013

HRN EN ISO 12209-3:2003 en  
Plinske boce – Izlazni priključci ventila plinskih boca za zrak za disanje – 3. dio: Prilagodnik ventila za tlak od 230 bara (ISO 12209-3:2000; EN ISO 12209-3:2000)  
Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air – Part 3: Adaptor for 230 bar valves (ISO 12209-3:2000; EN ISO 12209-3:2000)  
- zamijenjena s: HRN EN ISO 12209:2013

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

HRN EN 13732:2009 en  
Strojevi za preradu hrane – Hladnjaci za mlijeko u rinfuzi na farmama – Zahtjevi za konstrukciju, izvedbu, pogodnost za uporabu, sigurnost i higijena (EN 13732:2002+A2:2009)  
Food processing machinery – Bulk milk coolers on farms – Requirements for construction, performance, suitability for use, safety and hygiene (EN 13732:2002+A2:2009)  
- zamijenjena s: HRN EN 13732:2013

#### **HZN/TO 571, Oprema za sport, igrališta i rekreaciju**

HRN EN 748:2008 en  
Oprema za sportska igrališta – Nogometni golovi – Funkcionalni i sigurnosni zahtjevi, metode ispitivanja (EN 748:2004+AC:2005)  
Playing field equipment – Football goals – Functional and safety requirements, test methods (EN 748:2004+AC:2005)  
- zamijenjena s: HRN EN 748:2013

HRN EN 957-1:2008 en  
Oprema za vježbanje – 1. dio: Opći sigurnosni zahtjevi i metode ispitivanja (EN 957-1:2005)  
Stationary training equipment – Part 1: General safety requirements and test methods (EN 957-1:2005)  
- zamijenjena s: HRN EN ISO 20957-1:2013

HRN EN 12503-4:2008 en  
Sports mats – Part 4: Determination of shock absorption (EN 12503-4:2001)  
- zamijenjena s: HRN EN 12503-4:2013

HRN EN 13537:2008 en  
Requirements for sleeping bags (EN 13537:2002)  
- zamijenjena s: HRN EN 13537:2013

HRN EN 14960:2008 en  
Inflatable play equipment – Safety requirements and test methods (EN 14960:2006)  
- zamijenjena s: HRN EN 14960:2013

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

HRN EN 50005:2008 en  
Niskonaponska sklopna aparatura za upotrebu u industriji – Označivanje priključnica i karakteristični brojevi – Opća pravila (EN 50005:1976)  
Low-voltage switchgear and controlgear for industrial use – Terminal marking and distinctive number – General rules (EN 50005:1976)  
- zamijenjena s: HRN EN 60947-1:2009

HRN EN 50011:2008 en  
Niskonaponska sklopna aparatura za upotrebu u industriji – Označivanje priključnica, karakteristični brojevi i karakteristična slova za pojedinačne kontakte relaja (EN 50011:1977)  
Low-voltage switchgear and controlgear for industrial use – Terminal marking, distinctive number and distinctive letter for particular contactor relays (EN 50011:1977)  
- zamijenjena s: HRN EN 60947-1:2009

HRN EN 50013:2008 en  
Niskonaponska sklopna aparatura za upotrebu u industriji – Označivanje priključnica i karakteristični brojevi za upravljačke sklopke (EN 50013:1977)  
Low-voltage switchgear and controlgear for industrial use – Terminal marking and distinctive number for particular control switches (EN 50013:1977)  
- zamijenjena s: HRN EN 60947-1:2009

HRN EN 50042:2008 en  
Niskonaponska sklopna aparatura za upotrebu u industriji – Označivanje priključnica – Priključnice za vanjsko povezivanje elektroničkih krugova komponenata i kontakta (EN 50042:1980)  
Low-voltage switchgear and controlgear for industrial use – Terminal marking – Terminals for external associated electronic circuit components and contacts (EN 50042:1980)  
- zamijenjena s: HRN EN 60947-1:2009

HRN EN 50300:2008 en  
Niskonaponski sklopni blokovi – Opći zahtjevi za niskonaponske (podstanice) kabelske razvodne ormare (EN 50300:2004)  
Low-voltage switchgear and controlgear assemblies – General requirements for low-voltage substation cable distribution boards (EN 50300:2004)  
- zamijenjena s: HRN EN 60439-5:2008

HRN EN 60265-2:2005 en  
Visokonaponske sklopke – 2. dio: Visokonaponske sklopke za nazivne napone od 52 kV i više (IEC 60265-2:1988+Corr.1:1990; EN 60265-2:1993)  
High-voltage switches – Part 2: High-voltage switches for rated voltages of 52 kV and above (IEC 60265-2:1988+Corr.1:1990; EN 60265-2:1993)  
- zamijenjena s: HRN EN 62271-104:2010

HRN EN 60265-2:2005/A1:2005 en  
Visokonaponske sklopke – 2. dio: Visokonaponske sklopke za nazivne napone od 52 kV i više (IEC 60265-2:1993/am1:1994; EN 60265-2:1993/A1:1995)  
High-voltage switches – Part 2: High-voltage switches for rated voltages of 52 kV and above (IEC 60265-2:1993/am1:1994; EN 60265-2:1993/A1:1995)  
- zamijenjena s: HRN EN 62271-104:2010

HRN EN 60265-2:2005/A2:2005 en  
Visokonaponske sklopke – 2. dio: Visokonaponske sklopke za nazivne napone od 52 kV i više (IEC 60265-2:1993/am2:1998; EN 60265-2:1993/A2:1998)  
High-voltage switches – Part 2: High-voltage switches for rated voltages of 52 kV and above (IEC 60265-2:1993/am2:1998; EN 60265-2:1993/A2:1998)  
- zamijenjena s: HRN EN 62271-104:2010

HRN EN 60427:2005 en  
Sintetska ispitivanja visokonaponskih prekidača izmjenične struje (IEC 60427:2000; EN 60427:2000)  
Synthetic testing of high-voltage alternating current circuit-breakers (IEC 60427:2000; EN 60427:2000)  
- zamijenjena s: HRN EN 62271-101:2008

HRN EN 60439-5:2005 en

Niskonaponski sklopni blokovi – 5. dio: Posebni zahtjevi za sklopne blokove predviđene za vanjsku ugradnju na javnim mjestima – Kabelski razvodni ormarići (CDCs) za razvod energije u mrežama (IEC 60439-5:1996; EN 60439-5:1996)

Low-voltage switchgear and controlgear assemblies – Part 5: Particular requirements for assemblies intended to be installed outdoors in public places – Cable distribution cabinets (CDCs) for power distribution in networks (IEC 60439-5:1996; EN 60439-5:1996)

- zamijenjena s: HRN EN 60439-5:2008

HRN EN 60439-5:2005/A1:2005 en

Niskonaponski sklopni blokovi – 5. dio: Posebni zahtjevi za sklopne blokove predviđene za vanjsku ugradnju na javnim mjestima – Kabelski razvodni ormarići (CDCs) za razvod energije u mrežama (IEC 60439-5:1996/am1:1998; EN 60439-5:1996/A1:1998)

Low-voltage switchgear and controlgear assemblies – Part 5: Particular requirements for assemblies intended to be installed outdoors in public places – Cable distribution cabinets (CDCs) for power distribution in networks (IEC 60439-5:1996/am1:1998; EN 60439-5:1996/A1:1998)

- zamijenjena s: HRN EN 60439-5:2008

HRN EN 60694:2005 en

Zajedničke odredbe normi za visokonaponsku sklopnu aparatu (IEC 60694:1996; EN 60694:1996) Common specifications for high-voltage switchgear and controlgear standards (IEC 60694:1996; EN 60694:1996)

- zamijenjena s: HRN EN 62271-1:2010

HRN EN 60694:2005/A1:2005 en

Zajedničke odredbe normi za visokonaponsku sklopnu aparatu (IEC 60694:1996/am1:2000; EN 60694:1996/A1:2000)

Common specifications for high-voltage switchgear and controlgear standards (IEC 60694:1996/am1:2000; EN 60694:1996/A1:2000)

- zamijenjena s: HRN EN 62271-1:2010

HRN EN 60694:2005/A2:2005 en

Zajedničke odredbe normi za visokonaponsku sklopnu aparatu (IEC 60694:1996/am2:2001; EN 60694:1996/A2:2001)

Common specifications for high-voltage switchgear and controlgear standards (IEC 60694:1996/am2:2001; EN 60694:1996/A2:2001)

- zamijenjena s: HRN EN 62271-1:2010

HRN EN 60947-1:2008 en

Niskonaponska sklopna aparatura – 1. dio: Opća pravila (IEC 60947-1:2004; EN 60947-1:2004)

Low-voltage switchgear and controlgear – Part 1: General rules (IEC 60947-1:2004; EN 60947-1:2004)

- zamijenjena s: HRN EN 60947-1:2009

HRN EN 60947-2:2005 en

Niskonaponska sklopna aparatura – 2. dio: Prekidači (IEC 60947-2:2003; EN 60947-2:2003)

Low voltage switchgear and controlgear – Part 2: Circuit-breakers (IEC 60947-2:2003; EN 60947-2:2003)

- zamijenjena s: HRN EN 60947-2:2008

HRN EN 60947-3:2005 en

Niskonaponska sklopna aparatura – 3. dio: Sklopke, rastavljači, rastavne sklopke i kombinacije s osiguračima (IEC 60947-3:1999; EN 60947-3:1999)

Low voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse combination (IEC 60947-3:1999; EN 60947-3:1999)

- zamijenjena s: HRN EN 60947-3:2010

HRN EN 60947-3:2005/A1:2005 en

Niskonaponska sklopna aparatura – 3. dio: Sklopke, rastavljači, rastavne sklopke i kombinacije s osiguračima (IEC 60947-3:1999/am1:2001; EN 60947-3:1999/A1:2001)

Low voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse (IEC 60947-3:1999/am1:2001; EN 60947-3:1999/A1:2001)

- zamijenjena s: HRN EN 60947-3:2010

HRN EN 60947-3:2005/A2:2008 en

Niskonaponska sklopna aparatura – 3. dio: Sklopke, rastavljači, rastavne sklopke i kombinacije s osiguračima (IEC 60947-3:1999/am2:2005; EN 60947-3:1999/A2:2005)

Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:1999/am2:2005; EN 60947-3:1999/A2:2005)

- zamijenjena s: HRN EN 60947-3:2010

HRN EN 60947-4-1:2005 en

Niskonaponska sklopna aparatura – Dio 4-1: Sklopni i motorski pokretači – Elektromehanički sklopni i motorski pokretači (IEC 60947-4-1:2001; EN 60947-4-1:2001)

Low voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-start (IEC 60947-4-1:2001; EN 60947-4-1:2001)

- zamijenjena s: HRN EN 60947-4-1:2010

HRN EN 60947-4-1:2005/A1:2005 en

Niskonaponska sklopna aparatura – Dio 4-1: Sklopni i motorski pokretači – Elektromehanički sklopni i motorski (IEC 60947-4-1:2001/am1:2002; EN 60947-4-1:2001/A1:2002)

Low voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor (IEC 60947-4-1:2001/am1:2002; EN 60947-4-1:2001/A1:2002)

- zamijenjena s: HRN EN 60947-4-1:2010

HRN EN 60947-4-1:2005/A2:2008 en

Niskonaponska sklopna aparatura – Dio 4-1: Sklopni i motorski pokretači – Elektromehanički sklopni i motorski pokretači (IEC 60947-4-1:2000/am2:2005; EN 60947-4-1:2001/A2:2005)

Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters (IEC 60947-4-1:2000/am2:2005; EN 60947-4-1:2001/A2:2005)

- zamijenjena s: HRN EN 60947-4-1:2010

HRN EN 60947-5-2:2005 en

Niskonaponska sklopna aparatura – Dio 5-2: Aparati za upravljačke strujne krugove i sklopni elementi – Blizinske sklopke (IEC 60947-5-2:1997; EN 60947-5-2:1998)

Low voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches (IEC 60947-5-2:1997; EN 60947-5-2:1998)

- zamijenjena s: HRN EN 60947-5-2:2008

HRN EN 60947-5-2:2005/A1:2005 en

Niskonaponska sklopna aparatura – Dio 5-2: Aparati za upravljačke strujne krugove i sklopni elementi – Blizinske sklopke (IEC 60947-5-2:1997/am1:1999; EN 60947-5-2:1998/A1:1999)

Low voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches (IEC 60947-5-2:1997/am1:1999; EN 60947-5-2:1998/A1:1999)

- zamijenjena s: HRN EN 60947-5-2:2008

HRN EN 60947-5-2:2005/A2:2005 en	Niskonaponska sklopna aparatura – Dio 5-2: Aparati za upravljačke strujne krugove i sklopni elementi – Blizinske sklopke (IEC 60947-5-2:1997/am2:2003; EN 60947-5-2:1998/A2:2004) Low voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches (IEC 60947-5-2:1997/am2:2003; EN 60947-5-2:1998/A2:2004) - zamjenjena s: HRN EN 60947-5-2:2008	HRN EN 62271-2:2005 en Visokonaponska sklopna aparatura – 2. dio: Seizmička prikladnost za nazivne napone 72,5 kV i iznad (IEC 62271-2:2003; EN 62271-2:2003) High-voltage switchgear and controlgear – Part 2: Seismic qualification for rated voltages of 72,5 kV and above (IEC 62271-2:2003; EN 62271-2:2003) - zamjenjena s: HRN EN 62271-207:2008
HRN EN 60947-7-1:2005 en	Niskonaponska sklopna aparatura – Dio 7-1: Pomoćna oprema – Redne stezaljke za bakrene vodiče (IEC 60947-7-1:2002; EN 60947-7-1:2002) Low voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors (IEC 60947-7-1:2002; EN 60947-7-1:2002) - zamjenjena s: HRN EN 60947-7-1:2010	HRN EN 62271-100:2005 en Visokonaponska sklopna aparatura – 100. dio: Visokonaponski prekidači izmjenične struje (IEC 62271-100:2001; EN 62271-100:2001) High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers (IEC 62271-100:2001; EN 62271-100:2001) - zamjenjena s: HRN EN 62271-100:2010
HRN EN 60947-7-2:2005 en	Niskonaponska sklopna aparatura – Dio 7-2: Pomoćna oprema – Redne stezaljke za bakrene zaštitne vodiče (IEC 60947-7-2:2002; EN 60947-7-2:2002) Low voltage switchgear and controlgear – Part 7-2: Ancillary equipment – Protective conductor terminal blocks for copper conductors (IEC 60947-7-2:2002; EN 60947-7-2:2002) - zamjenjena s: HRN EN 60947-7-2:2010	HRN EN 62271-100:2005/A2:2008 en Visokonaponska sklopna aparatura – 100. dio: Visokonaponski prekidači izmjenične struje (IEC 62271-100:2001/am2:2006; EN 62271-100:2001/A2:2006) High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers (IEC 62271-100:2001/am2:2006; EN 62271-100:2001/A2:2006) - zamjenjena s: HRN EN 62271-100:2010
HRN EN 60947-7-3:2005 en	Niskonaponska sklopna aparatura – Dio 7-3: Pomoćna oprema – Sigurnosni zahtjevi za redne stezaljke s osiguračima (IEC 60947-7-3:2002; EN 60947-7-3:2002) Low voltage switchgear and controlgear – Part 7-3: Ancillary equipment – Safety requirements for fuse terminal blocks (IEC 60947-7-3:2002; EN 60947-7-3:2002) - zamjenjena s: HRN EN 60947-7-3:2010	HRN EN 62271-100/A1:2005 en Visokonaponska sklopna aparatura – 100. dio: Visokonaponski prekidači izmjenične struje (IEC 62271-100:2001/am1:2002; EN 62271-100:2001/A1:2002) High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers (IEC 62271-100:2001/am1:2002; EN 62271-100:2001/A1:2002) - zamjenjena s: HRN EN 62271-100:2010
HRN EN 61095:2005 en	Elektromehanički sklopnići za kućanske i slične namjene (IEC 61095:1992; EN 61095:1993) Electromechanical contactors for household and similar purposes (IEC 61095:1992; EN 61095:1993) - zamjenjena s: HRN EN 61095:2010	HRN EN 62271-109:2008 en Visokonaponska sklopna aparatura – 109. dio: Serijski kondenzatori za izmjeničnu struju u paralelnom spoju sa sklopkama (IEC 62271-109:2006; EN 62271-109:2006) High-voltage switchgear and controlgear – Part 109: Alternating-current series capacitor by-pass switches (IEC 62271-109:2006; EN 62271-109:2006) - zamjenjena s: HRN EN 62271-109:2010
HRN EN 61095:2005/A1:2005 en	Elektromehanički sklopnići za kućanske i slične namjene (IEC 61095:1992/am1:2000; EN 61095:1993/A1:2000) Electromechanical contactors for household and similar purposes (IEC 61095:1992/am1:2000; EN 61095:1993/A1:2000) - zamjenjena s: HRN EN 61095:2010	HRN EN 62271-110:2008 en Visokonaponska sklopna aparatura – 110. dio: Sklapanje induktivnih tereta (IEC 62271-110:2005; EN 62271-110:2005) High-voltage switchgear and controlgear – Part 110: Inductive load switching (IEC 62271-110:2005; EN 62271-110:2005) - zamjenjena s: HRN EN 62271-110:2010
HRN EN 61166:2005 en	Visokonaponski prekidači izmjenične struje – Uputa za seizmičku prikladnost visokonaponskih prekidača izmjenične struje (IEC 61166:1993; EN 61166:1993) High-voltage alternating current circuit-breakers – Guide for seismic qualification of high-voltage alternating current circuit-breakers (IEC 61166:1993; EN 61166:1993) - bez zamjene	<b>HZN/TO E56, Pouzdanost</b> HRN IEC 61710:2008 en Duaneov model – Prilagodbe teorijskih razdioba i metode procjena (IEC 61710:2000) Power law model – Goodness-of-fit tests and estimation methods (IEC 61710:2000) - zamjenjena s: HRN EN 61710:2013
HRN EN 61330:2005 en	Visokonaponske/niskonaponske tvornički dogotovljene transformatorske stanice (IEC 61330:1995; EN 61330:1996) High-voltage/low-voltage prefabricated sub stations (IEC 61330:1995; EN 61330:1996) - zamjenjena s: HRN EN 62271-202:2008	<b>HZN/TO E79, Alarmni sustavi</b> HRN EN 50131-1:2007/IS1:2012 en Alarmni sustavi – Protuprovajni i protuprepadni sustavi – 1. dio: Zahtjevi za sustave (EN 50131-1:2006/IS1:2009) Alarm systems – Intrusion and hold-up systems – Part 1: System requirements (EN 50131-1:2006/IS1:2009) - zamjenjena s: HRN EN 50131-1:2007/IS2:2012

### **HZN/TU I3, Strojarstvo 3**

HRN EN 1143-1:2009 en

Jedinice za sigurno pohranjivanje – Zahtjevi, klasifikacija i metode ispitivanja otpornosti na provalu – 1. dio: Sefovi, sefovi bankomata, trezorska vrata i trezori (EN 1143-1:2005+A1:2009)

Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms (EN 1143-1:2005+A1:2009)

- zamijenjena s: HRN EN 1143-1:2013

HRN EN 1300:2004 en

Jedinice za sigurno pohranjivanje – Klasifikacija brava visoke sigurnosti prema njihovoj otpornosti na neovlašteno otvaranje (EN 1300:2004)

Secure storage units – Classification for high security locks according to their resistance to unauthorized opening (EN 1300:2004)

- zamijenjena s: HRN EN 1300:2013

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

HRN EN 16081:2011 en

Hiperbarične komore – Posebni zahtjevi za vatrogasne sustave – Izvedba, instalacija i ispitivanje (EN 16081:2011)

Hyperbaric chambers – Specific requirements for fire extinguishing systems – Performance, installation and testing (EN 16081:2011)

- zamijenjena s: HRN EN 16081:2013

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

HRN EN 417:2008 en

Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances – Construction, inspection, testing and marking (EN 417:2003)

- zamijenjena s: HRN EN 417:2013

## **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.

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

#### **• umjesto**

HRN EN ISO 15245-1:2002

Plinske boce – Paralelni navozi za spajanje ventila i plinskih boca (ISO 15245-1:2001; EN ISO 15245-1:2001)

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001; EN ISO 15245-1:2001)

#### **• treba biti**

HRN EN ISO 15245-1:2002

Plinske boce – Paralelni navozi za spajanje ventila i plinskih boca – **1. dio: Specifikacije** (ISO 15245-1:2001; EN ISO 15245-1:2001)

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001; EN ISO 15245-1:2001)

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

#### **• umjesto**

HRN EN 61936-1:2012

Električna postrojenja nazivnih izmjeničnih napona iznad 1kV – 1. dio: Opća pravila (IEC 61936-1:2010, MOD; EN 61936-1:2010+AC:2011)

Power installations exceeding 1 kV a.c. – Part 1: Common rules (IEC 61936-1:2010, MOD; EN 61936-1:2010+AC:2011)

#### **• treba biti**

HRN EN 61936-1:2012

Električna postrojenja nazivnih izmjeničnih napona iznad 1kV – 1. dio: Opća pravila (IEC 61936-1:2010, MOD; EN 61936-1:2010)

Power installations exceeding 1 kV a.c. – Part 1: Common rules (IEC 61936-1:2010, MOD; EN 61936-1:2010)

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

#### **• umjesto**

HRN EN 61000-3-3:2009

Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A (IEC 61000-3-3:2008; EN 61000-3-3:2008)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuation and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2008; EN 61000-3-3:2008)

#### **• treba biti**

HRN EN 61000-3-3:2009

Elektromagnetska kompatibilnost (EMC) – Dio 3-3: Granice – Ograničenje kolebanja napona i treperenja u niskonaponskim sustavima napajanja za opremu s nazivnom strujom  $\leq 16$  A i koja nije predmet uvjetovanog priključka (IEC 61000-3-3:2008; EN 61000-3-3:2008)

Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuation and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection (IEC 61000-3-3:2008; EN 61000-3-3:2008)

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

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

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

HRS CEN/TS 15366:2010

Oprema za zimsku službu održavanja i službu održavanja cesta – Čvrsti upijači namijenjeni za cestovnu upotrebu (CEN/TS 15366:2009)

Winter and road service area maintenance equipment – Solid absorbents intended for road usage (CEN/TS 15366:2009)

HRN EN 15430-1:2011	Oprema za zimsku službu održavanja i službu održavanja cesta – Prikupljanje podataka i prijenos – 1. dio: Prikupljanje podataka u vozilu (EN 15430-1:2007+A1:2011)	Winter maintenance equipment – Spreading machines (gritting machines) – Part 1: General requirements and definitions for spreading machines (EN 15597-1:2009)
	Winter and road service area maintenance equipments – Data acquisition and transmission – Part 1: In vehicle data acquisition (EN 15430-1:2007+A1:2011)	
HRN EN 15431:2008	Oprema za zimsku službu održavanja i službu održavanja cesta – Sustav napajanja i pripadajuće kontrole – Hidraulički sustav napajanja i električno sučelje (EN 15431:2008)	Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 1. dio: Određivanje nedostataka uz pomoć penetracije boje (EN 623-1:2006)
	Winter and road service area maintenance equipments – Power system and related controls – Interchangeability and performance requirements (EN 15431:2008)	Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 1: Determination of the presence of defects by dye penetration (EN 623-1:2006)
HRN EN 15432-1:2011	Oprema za zimsku službu održavanja i službu održavanja cesta – Oprema postavljena na prednjoj strani – 1. dio: Fiksne prednje montažne ploče (EN 15432-1:2011)	HRN EN 623-2:2008
	Winter and road service area maintenance equipments – Front-mounted equipments – Part 1: Fixed front mounting plates (EN 15432-1:2011)	Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 2. dio: Određivanje gustoće i poroznosti (EN 623-2:1993)
HRN EN 15436-2:2008	Oprema za službu održavanja cesta – 2. dio: Ocjena izvedbe (EN 15436-2:2008)	Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 2: Determination of density and porosity (EN 623-2:1993)
	Road service area maintenance equipment – Part 2: Performance assessment (EN 15436-2:2008)	HRN EN 623-3:2008
HRN EN 15436-4:2009	Oprema za službu održavanja cesta – 4. dio: Uvjeti isporuke strojeva od strane korisnika (EN 15436-4:2009)	Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 3. dio: Određivanje veličine zrna i raspodjele veličina (obilježeno metodom linearne presjecanja) (EN 623-3:2001)
	Road service area maintenance equipment – Part 4: Delivery acceptance of the machines by the users (EN 15436-4:2009)	Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 3: Determination of grain size and size distribution (characterized by the Linear Intercept Method) (EN 623-3:2001)
HRN EN 15518-1:2012	Oprema za zimsko održavanje – Informatički sustavi o vremenu na cestama – 1. dio: Globalne definicije i komponente (EN 15518-1:2011)	HRN EN 623-4:2008
	Winter maintenance equipment – Road weather information systems – Part 1: Global definitions and components (EN 15518-1:2011)	Tehnička keramika – Monolitna keramika – Opća i strukturalna svojstva – 4. dio: Određivanje hravavosti površine (EN 623-4:2004)
HRN EN 15518-2:2012	Oprema za zimsko održavanje – Informatički sustavi o vremenu na cestama – 2. dio: Vrijeme na cesti – Preporučena opažanja i vremenska prognoza (EN 15518-2:2011)	Advanced technical ceramics – Monolithic ceramics – General and textural properties – Part 4: Determination of surface roughness (EN 623-4:2004)
	Winter maintenance equipment – Road weather information systems – Part 2: Road weather – Recommended observation and forecast (EN 15518-2:2011)	HRN EN 658-1:2008
HRN EN 15518-3:2012	Oprema za zimsko održavanje – Informatički sustav o vremenu na cestama – 3. dio: Zahtjevi za izmjerene vrijednosti nepomične opreme (EN 15518-3:2011)	Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 1. dio: Određivanje zateznih svojstava (EN 658-1:1998)
	Winter maintenance equipment – Road weather information systems – Part 3: Requirements on measured values of stationary equipments (EN 15518-3:2011)	Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Part 1: Determination of tensile properties (EN 658-1:1998)
HRN EN 15583-1:2009	Oprema za zimsko održavanje – Snježni plugovi – 1. dio: Opis proizvoda i zahtjevi (EN 15583-1:2009)	HRN EN 658-2:2008
	Winter maintenance equipment – Snow ploughs – Part 1: Product description and requirements (EN 15583-1:2009)	Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 2. dio: Određivanje svojstava kompresije (EN 658-2:2002)
HRN EN 15597-1:2010	Oprema za zimsko održavanje – Ralice (strojevi za posipavanje) – 1. dio: Opći zahtjevi i definicije za ralice (EN 15597-1:2009)	Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Part 2: Determination of compression properties (EN 658-2:2002)
		HRN EN 658-3:2008
		Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 3. dio: Određivanje tlačne čvrstoće (EN 658-3:2002)
		Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Part 3: Determination of flexural strength (EN 658-3:2002)
		HRN EN 658-4:2008
		Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 4. dio: Određivanje interlaminarne čvrstoće smicanja pomoću sabijanja punjenja zarezanih ispitnih uzoraka (EN 658-4:2003)
		Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Part 4: Determination of interlaminar shear strength by compression loading of notched test specimens (EN 658-4:2003)

- HRN EN 658-5:2008  
Tehnička keramika – Mehanička svojstva keramičkih smjesa na sobnoj temperaturi – 5. dio: Određivanje interlaminarne čvrstoće smicanja pomoću ispitivanja savijanjem kratkoga raspona (tri točke) (EN 658-5:2002)  
Advanced technical ceramics – Mechanical properties of ceramic composites at room temperature – Part 5: Determination of interlaminar shear strength by short span bend test (three points) (EN 658-5:2002)
- HRN EN 725-1:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 1. dio: Određivanje nečistoća u glinici (EN 725-1:2007)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 1: Determination of impurities in alumina (EN 725-1:2007)
- HRN EN 725-2:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 2. dio: Određivanje nečistoća barij titanata (EN 725-2:2007)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 2: Determination of impurities in barium titanate (EN 725-2:2007)
- HRN EN 725-3:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 3. dio: Određivanje sadržaja kisika u neoksidima toplinskog ekstrakcijom pomoću plina nositelja (EN 725-3:2007)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 3: Determination of the oxygen content of non-oxides by thermal extraction with a carrier gas (EN 725-3:2007)
- HRN EN 725-4:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 4. dio: Određivanje sadržaja kisika u aluminij nitridu pomoću XRF analize (EN 725-4:2006)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 4: Determination of oxygen content in aluminium nitride by XRF analysis (EN 725-4:2006)
- HRN EN 725-5:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 5. dio: Određivanje raspodjele veličine čestica (EN 725-5:2007+AC:2007)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 5: Determination of particle size distribution (EN 725-5:2007+AC:2007)
- HRN EN 725-8:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 8. dio: Određivanje spojne volumne gustoće (EN 725-8:2006)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 8: Determination of tapped bulk density (EN 725-8:2006)
- HRN EN 725-9:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 9. dio: Određivanje ne-spojne volumne gustoće (EN 725-9:2006)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 9: Determination of un-tapped bulk density (EN 725-9:2006)
- HRN EN 725-10:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 10. dio: Određivanje svojstava zbijenosti (EN 725-10:2007)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 10: Determination of compaction properties (EN 725-10:2007)
- HRN EN 725-11:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 11. dio: Određivanje zadebljanja pri prirodnom sinteriranju (EN 725-11:2006)
- Advanced technical ceramics – Methods of test for ceramic powders – Part 11: Determination of densification on natural sintering (EN 725-11:2006)
- HRN EN 725-12:2008  
Tehnička keramika – Metode ispitivanja keramičkoga praha – 12. dio: Kemijska analiza cirkonija (EN 725-12:2001)  
Advanced technical ceramics – Methods of test for ceramic powders – Part 12: Chemical analysis of zirconia (EN 725-12:2001)
- HRN EN 820-1:2008  
Tehnička keramika – Metode ispitivanja monolitne keramike – Termo-mehanička svojstva – 1. dio: Određivanje tlačne čvrstoće pri povišenim temperaturama (EN 820-1:2002)  
Advanced technical ceramics – Thermomechanical properties – Part 1: Determination of flexural strength at elevated temperatures (EN 820-1:2002)
- HRN EN 820-2:2008  
Tehnička keramika – Metode ispitivanja monolitne keramike – Termo-mehanička svojstva – 2. dio: Određivanje deformacije pod samoopterećenjem (EN 820-2:2003)  
Advanced technical ceramics – Methods of testing monolithic ceramics – Thermo-mechanical properties – Part 2: Determination of self-loaded deformation (EN 820-2:2003)
- HRN EN 820-3:2008  
Tehnička keramika – Metode ispitivanja monolitne keramike – Termo-mehanička svojstva – 3. dio: Određivanje otpornosti na termalni šok pri gašenju vodom (EN 820-3:2004)  
Advanced technical ceramics – Methods of testing monolithic ceramics – Thermomechanical properties – Part 3: Determination of resistance to thermal shock by water quenching (EN 820-3:2004)
- HRN EN 821-1:2008  
Tehnička keramika – Monolitna keramika – Termofizikalna svojstva – 1. dio: Određivanje toplinskog širenja (EN 821-1:1995)  
Advanced technical ceramics – Monolithic ceramics – Thermo-physical properties – Part 1: Determination of thermal expansion (EN 821-1:1995)
- HRN EN 821-2:2008  
Tehnička keramika – Monolitna keramika – Termofizikalna svojstva – 2. dio: Određivanje toplinske difuznosti metodom laserske bljeskalice (ili toplinskog pulsa) (EN 821-2:1997)  
Advanced technical ceramics – Monolithic ceramics – Thermo-physical properties – Part 2: Determination of thermal diffusivity by the laser flash (or heat pulse) method (EN 821-2:1997)
- HRN EN 821-3:2008  
Tehnička keramika – Monolitna keramika – Termofizikalna svojstva – 3. dio: Određivanje specifičnoga toplinskog kapaciteta (EN 821-3:2005)  
Advanced technical ceramics – Monolithic ceramics – Thermo-physical properties – Part 3: Determination of specific heat capacity (EN 821-3:2005)
- HRN EN 843-1:2008  
Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 1. dio: Određivanje tlačne čvrstoće (EN 843-1:2006)  
Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 1: Determination of flexural strength (EN 843-1:2006)
- HRN EN 843-2:2008  
Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 2. dio: Određivanje Youngova modula, smičnog modula i Poissonova omjera (EN 843-2:2006)

- Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 2: Determination of Young's modulus, shear modulus and Poisson's ratio (EN 843-2:2006)
- HRN EN 843-3:2008  
Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 3. dio: Određivanje sub-kritičnih parametara rasta prsline iz konstante stope naprezanja testa savojne čvrstoće (EN 843-3:2005)
- Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 3: Determination of subcritical crack growth parameters from constant stressing rate flexural strength tests (EN 843-3:2005)
- HRN EN 843-4:2008  
Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 4. dio: Vicksova, Knoopova i Rockwelleva površinska tvrdoća (EN 843-4:2005)
- Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 4: Vickers, Knoop and Rockwell superficial hardness (EN 843-4:2005)
- HRN EN 843-5:2008  
Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 5. dio: Statističke analize (EN 843-5:2006)
- Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 5: Statistical analysis (EN 843-5:2006)
- HRN EN 1007-1:2008  
Tehnička keramika – Keramičke smjese – Metode ispitivanja za pojačanje – 1. dio: Određivanje veličine sadržaja smjese (EN 1007-1:2002)
- Advanced technical ceramics – Ceramic composites – Methods of test for reinforcement – Part 1: Determination of size content (EN 1007-1:2002)
- HRN EN 1007-2:2008  
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- Advanced technical ceramics – Ceramics composites – Methods of test for reinforcement – Part 2: Determination of linear density (EN 1007-2:2002)
- HRN EN 1007-3:2008  
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- Advanced technical ceramics – Ceramic composites – Methods of test for reinforcement – Part 3: Determination of filament diameter and cross-section area (EN 1007-3:2002)
- HRN EN 1007-4:2008  
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- Advanced technical ceramics – Ceramic composites – Methods of test for reinforcement – Part 4: Determination of tensile properties of filaments at ambient temperature (EN 1007-4:2004)
- HRN EN 1007-6:2008  
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- Advanced technical ceramic – Ceramic composites – Methods of test for reinforcements – Part 6: Determination of tensile properties of filaments at high temperature (EN 1007-6:2007)
- HRN EN 1071-1:2008  
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- Advanced technical ceramics – Methods of test for ceramic coatings – Part 1: Determination of coating thickness by contact probe filometer (EN 1071-1:2003)
- HRN EN 1071-2:2008  
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- HRN EN 1071-3:2008  
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- Advanced technical ceramics – Methods of test for ceramic coatings – Part 4: Determination of chemical composition by electron probe microanalysis (EPMA) (EN 1071-4:2006)
- HRN EN 1071-6:2008  
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- HRN EN 1159-2:2008  
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- Advanced technical ceramics – Ceramic composites – Thermophysical properties – Part 2: Determination of thermal diffusivity (EN 1159-2:2003)
- HRN EN 1159-3:2008  
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- Advanced technical ceramics – Ceramic composites – Thermophysical properties – Part 3: Determination of specific heat capacity (EN 1159-3:2003+AC:2008)
- HRN EN 1389:2008  
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- Advanced technical ceramics – Ceramic composites – Physical properties – Determination of density and apparent porosity (EN 1389:2003)

- HRN EN 1892:2008  
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- HRN EN 1893:2008  
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- HRN EN 1894:2008  
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- HRN EN 12788:2008  
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- HRN EN 12923-1:2008  
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- HRN EN 13234:2008  
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- HRN EN 13235:2008  
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- HRN EN 14186:2008  
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- HRN EN 15156:2008  
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- HRN EN 15157:2008  
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- HRN EN 15158:2008  
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- HRN EN 15335:2008  
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- HRN EN ISO 15732:2008  
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Tehnička keramika – Keramičke smjese – Metode ispitivanja za pojačanje – 7. dio: Određivanje raspodjele vlačne čvrstoće i vlačnog naprezanja kod pucanja filamenata pri razvlačenju multifilamenta na visokoj temperaturi (EN 1007-7:2010)  
Advanced technical ceramics – Ceramic composites – Methods of test for reinforcements – Part 7: Determination of the distribution of tensile strength and of tensile strain to failure of filaments within a multifilament tow at high temperature (EN 1007-7:2010)

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Tehnička keramika – Mehanička svojstva keramičkih vlakana na visokoj temperaturi u nereaktivnom okolišu – Određivanje puzanja metodom hladnog završetka (EN 15365:2010)  
Advanced technical ceramics – Mechanical properties of ceramic fibres at high temperature in a non-reactive environment – Determination of creep behaviour by the cold end method (EN 15365:2010)

HRS CEN/TS 843-9:2011

Tehnička keramika – Mehanička svojstva monolitne keramike na sobnoj temperaturi – 9. dio: Metoda ispitivanja otpornosti na lomljenje ruba (CEN/TS 843-9:2010)  
Advanced technical ceramics – Mechanical properties of monolithic ceramics at room temperature – Part 9: Method of test for edge-chip resistance (CEN/TS 843-9:2010)

HRN EN ISO 14720-1:2013

Ispitivanje keramičkih sirovina i osnovnih materijala – Određivanje sumpora u prahu i granulama neoksidnih keramičkih sirovina i osnovnih materijala – 1. dio: Infracrvene metode mjerenja (ISO 14720-1:2013; EN ISO 14720-1:2013)  
Testing of ceramic raw and basic materials – Determination of sulfur in powders and granules of non-oxidic ceramic raw and basic materials – Part 1: Infrared measurement methods (ISO 14720-1:2013; EN ISO 14720-1:2013)

HRN EN ISO 14720-2:2013

Ispitivanje keramičkih sirovina i osnovnih materijala – Određivanje sumpora u prahu i granulama neoksidnih keramičkih sirovina i osnovnih materijala – 2. dio: Optička emisijska spektrometrija induktivno spregnutom plazmom (ICP/OES) ili ionska kromatografija nakon gorenja uz protok kisika (ISO 14720-2:2013; EN ISO 14720-2:2013)  
Testing of ceramic raw and basic materials – Determination of sulfur in powders and granules of non-oxidic ceramic raw and basic materials – Part 2: Inductively coupled plasma optical emission spectrometry (ICP/OES) or ion chromatography after burning in an oxygen flow (ISO 14720-2:2013; EN ISO 14720-2:2013)

HRN EN 16214-1:2013

Održivi kriteriji za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, kriterij, indikatori i provjere – 1. dio: Nazivlje (EN 16214-1:2012)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 1: Terminology (EN 16214-1:2012)

HRN EN 16214-3:2013

Održivi kriteriji za proizvodnju biogoriva i biotekućina za dobivanje energije – Načela, kriterij, indikatori i provjere – 3. dio: Bioraznolikost i ekološki aspekti vezani za zaštitu prirode (EN 16214-3:2012)  
Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 3: Biodiversity and environmental aspects related to nature protection purposes (EN 16214-3:2012)

HRN EN 16214-4:2013

Održivi kriteriji za proizvodnju biogoriva i biotekućina za dobivanje energije – Principi, kriterij, indikatori i verifikacije – 4. dio: Metode izračuna bilance emisije stakleničkih plinova pomoću pristupa analize životnoga ciklusa (EN 16214-4:2013)  
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 (EN 16214-4:2013)

## HZN/TU U1, Opća elektrotehnika 1

HRN HD 245.4 S1:2008

Slovnji simboli za uporabu u elektrotehnici – 4. dio: Simboli za količine za uporabu u rotacijskim električnim strojevima (IEC 60027-4:1985; HD 245.4 S1:1987)  
Letter symbols to be used in electrical technology – Part 4: Symbols for quantities to be used for rotating electrical machines (IEC 60027-4:1985; HD 245.4 S1:1987)

HRN HD 323.2.46 S1:2008

Osnovni postupci ispitivanja okoliša – 2. dio: Ispitivanja – Upute za ispitivanje: Ispitivanje sumporovodikom za kontakte i spojeve (IEC 60068-2-46:1982; HD 323.2.46 S1:1988)  
Basic environmental testing procedures – Part 2: Tests – Guidance to Test Kd: Hydrogen sulphide test for contacts and connections (IEC 60068-2-46:1982; HD 323.2.46 S1:1988)

HRN HD 323.2.54 S1:2008

Osnovni postupci ispitivanja okoliša – 2. dio: Ispitivanja – Ta ispitivanje: Lemljenje – Ispitivanje lemljivosti metodom ravnoteže vlaženja (IEC 60068-2-54:1985; HD 323.2.54 S1:1987)  
Basic environmental testing procedures – Part 2: Tests – Test Ta: Soldering – Solderability testing by the wetting balance method (IEC 60068-2-54:1985; HD 323.2.54 S1:1987)

HRN HD 457 S1:2008

Kod za određivanje boja (IEC 60757:1983; HD 457 S1:1985)  
Code for designation of colours (IEC 60757:1983; HD 457 S1:1985)

HRN HD 478.2.1 S1:2008

Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Temperatura i vlažnost (IEC 60721-2-1:1982+am1:1987; HD 478.2.1 S1:1989)  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Temperature and humidity (IEC 60721-2-1:1982+am1:1987; HD 478.2.1 S1:1989)

HRN HD 478.2.2 S1:2008

Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Oborine i vjetar (IEC 60721-2-2:1988; HD 478.2.2 S1:1990)  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Precipitation and wind (IEC 60721-2-2:1988; HD 478.2.2 S1:1990)

HRN HD 478.2.3 S1:2008

Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Tlak zraka (IEC 60721-2-3:1987; HD 478.2.3 S1:1990)  
Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Air pressure (IEC 60721-2-3:1987; HD 478.2.3 S1:1990)

HRN HD 478.2.4 S1:2008	Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Solarno zračenje i temperatura (IEC 60721-2-4:1987+am1:1988; HD 478.2.4 S1:1989) Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Solar radiation and temperature (IEC 60721-2-4:1987+am1:1988; HD 478.2.4 S1:1989)	HRN EN 50419:2008 Obilježavanje električne i elektroničke opreme u skladu s člankom 11 (2) Direktive 2002/96/EC (WEEE) (EN 50419:2006) Marking of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE) (EN 50419:2006)
HRN HD 478.2.5 S1:2008	Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – 5. odjeljak: Prašina, pjesak, slana magla (IEC 60721-2-5:1991; HD 478.2.5 S1:1993) Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Section 5: Dust, sand, salt mist (IEC 60721-2-5:1991; HD 478.2.5 S1:1993)	HRN EN 50436-1:2009 Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 1. dio: Instrumenti za programe kontrole prijestupnika pri vožnji pod utjecajem alkohola (EN 50436-1:2005+AC:2009) Alcohol interlocks – Test methods and performance requirements – Part 1: Instruments for drink-driving-offender programs (EN 50436-1:2005+AC:2009)
HRN HD 478.2.6 S1:2008	Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Potres, vibracija i udar (IEC 60721-2-6:1990; HD 478.2.6 S1:1993) Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Earthquake vibration and shock (IEC 60721-2-6:1990; HD 478.2.6 S1:1993)	HRN EN 50436-2:2009 Blokada u slučaju alkoholiziranosti – Metode ispitivanja i izvedbeni zahtjevi – 2. dio: Instrumenti s usnikom za mjerjenje alkoholiziranosti namijenjeni za opću preventivnu uporabu (EN 50436-2:2007+AC:2009) Alcohol interlocks – Test methods and performance requirements – Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventive use (EN 50436-2:2007+AC:2009)
HRN HD 478.2.7 S1:2008	Klasifikacija uvjeta okoliša – 2. dio: Radni uvjeti koji se pojavljuju u prirodi – Biljni i životinjski svijet (IEC 60721-2-7:1987; HD 478.2.7 S1:1990) Classification of environmental conditions – Part 2: Environmental conditions appearing in nature – Fauna and flora (IEC 60721-2-7:1987; HD 478.2.7 S1:1990)	HRN EN 50444:2008 Osnovna norma za procjenu izloženosti ljudi elektromagnetskim poljima od opreme za elektrolučno zavarivanje i srodnih postupaka (EN 50444:2008) Basic standard for the evaluation of human exposure to electromagnetic fields from equipment for arc welding and allied processes (EN 50444:2008)
HRN EN 50063:2008	Sigurnosni zahtjevi za konstrukciju i ugradnju opreme za elektrotoporno zavarivanje i srodne postupke (EN 50063:1989) Safety requirements for the construction and the installation of equipment for resistance welding and allied processes (EN 50063:1989)	HRI CLC/TR 50489:2010 Pametni čipovi za lociranje – Studija izvodljivosti o uključivanju RFID u električnu i elektroničku opremu za upravljanje WEEE-om (CLC/TR 50489:2006) Smart tracker chips – Feasibility study on the inclusion of RFID in Electrical and Electronic Equipment for WEEE management (CLC/TR 50489:2006)
HRN EN 50182:2008	Vodiči za nadzemne vodove – Okrugle žice koncentrično položenih usukanih vodiča (EN 50182:2001) Conductors for overhead lines – Round wire concentric lay stranded conductors (EN 50182:2001)	HRN EN 50504:2008 Validacija elektrolučne opreme za zavarivanje (EN 50504:2008) Validation of arc welding equipment (EN 50504:2008)
HRN EN 50183:2008	Vodiči za nadzemne vodove – Aluminij-magnezij-silicijске legure žica (EN 50183:2000) Conductors for overhead lines – Aluminium-magnesium-silicon alloy wires (EN 50183:2000)	HRN EN 50505:2008 Osnovna norma za procjenu izloženosti ljudi elektromagnetskim poljima od opreme za elektrotoporno zavarivanje i srodnih postupaka (EN 50505:2008) Basic standard for the evaluation of human exposure to electromagnetic fields from equipment for resistance welding and allied processes (EN 50505:2008)
HRN EN 50189:2008	Vodiči za nadzemne vodove – Pocinčane čelične žice (EN 50189:2000) Conductors for overhead lines – Zinc coated steel wires (EN 50189:2000)	HRN EN 50574:2013 Prikljupljanje, logistika i uvjeti postupanja za životni vijek kućanskih aparata koji sadrže hlapljive hlorofluorouglijike ili hlapljive ugljikovodike (EN 50574:2012+AC:2012) Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons (EN 50574:2012+AC:2012)
HRN EN 50326:2008	Vodiči za nadzemne vodove – Karakteristike maziva (EN 50326:2002) Conductors for overhead lines – Characteristics of greases (EN 50326:2002)	HRN EN 60027-1:2008 Sloveni simboli za uporabu u elektrotehnici – 1. dio: Općenito (IEC 60027-1:1995+am1:1997+am2:2005; EN 60027-1:2006+A2:2007) Letter symbols to be used in electrical technology – Part 1: General (IEC 60027-1:1995+am1:1997+am2:2005; EN 60027-1:2006+A2:2007)
HRS CLC/TS 50349:2010	Kvalifikacije za izvođače električnih instalacija (CLC/TS 50349:2004) Qualification of electrical installation contractors (CLC/TS 50349:2004)	

HRN EN 60027-2:2008	Sloveni simboli za uporabu u elektrotehnici – 2. dio: Telekomunikacije i elektronika (IEC 60027-2:2005; EN 60027-2:2007) Letter symbols to be used in electrical technology – Part 2: Telecommunication and electronics (IEC 60027-2:2005; EN 60027-2:2007)	Environmental testing – Part 2-14: Tests – Test N: Change of temperature (IEC 60068-2-14:2009; EN 60068-2-14:2009)
HRN EN 60027-3:2008	Sloveni simboli za uporabu u elektrotehnici – 3. dio: Logaritamske količine i jedinice (IEC 60027-3:2002; EN 60027-3:2007) Letter symbols to be used in electrical technology – Part 3: Logarithmic quantities and units (IEC 60027-3:2002; EN 60027-3:2007)	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Q: Ispitivanje: Brtvljenje (IEC 60068-2-17:1994; EN 60068-2-17:1994) Environmental testing – Part 2: Tests – Test Q: Sealing (IEC 60068-2-17:1994; EN 60068-2-17:1994)
HRN EN 60027-4:2008	Sloveni simboli za uporabu u elektrotehnici – 4. dio: Rotacijski električni strojevi (IEC 60027-4:2006; EN 60027-4:2007) Letter symbols to be used in electrical technology – Part 4: Rotating electric machines (IEC 60027-4:2006; EN 60027-4:2007)	Ispitivanje utjecaja okoliša – Dio 2-2: Ispitivanja – B: Ispitivanje: Suha toplina (IEC 60068-2-2:2007; EN 60068-2-2:2007) Environmental testing – Part 2-2: Tests – Test B: Dry heat (IEC 60068-2-2:2007; EN 60068-2-2:2007)
HRN EN 60027-6:2008	Sloveni simboli za uporabu u elektrotehnici – 6. dio: Tehnologija kontrole (IEC 60027-6:2006; EN 60027-6:2007) Letter symbols to be used in electrical technology – Part 6: Control technology (IEC 60027-6:2006; EN 60027-6:2007)	Ispitivanje utjecaja okoliša – Dio 2-27: Ispitivanja – Ea: Ispitivanje i upute: Udar (IEC 60068-2-27:2008; EN 60068-2-27:2009) Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock (IEC 60068-2-27:2008; EN 60068-2-27:2009)
HRN EN 60027-7:2011	Sloveni simboli za uporabu u elektrotehnici – 7. dio: Proizvodnja, prijenos i distribucija (IEC 60027-7:2010; EN 60027-7:2010) Letter symbols to be used in electrical technology – Part 7: Power generation, transmission and distribution (IEC 60027-7:2010; EN 60027-7:2010)	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Eb: Ispitivanje i upute: Udar (IEC 60068-2-29:1987; EN 60068-2-29:1993) Environmental testing – Part 2: Tests – Test Eb and guidance: Bump (IEC 60068-2-29:1987; EN 60068-2-29:1993)
HRN EN 60068-2-10:2008	Ispitivanje utjecaja okoliša – Dio 2-10: Ispitivanja – J: Ispitivanje i upute: Rast plijesni (IEC 60068-2-10:2005; EN 60068-2-10:2005) Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth (IEC 60068-2-10:2005; EN 60068-2-10:2005)	Ispitivanje utjecaja okoliša – Dio 2-30: Ispitivanja – Db: Ispitivanje: Vlažnost i toplina, cikličko (12 sati +12 satni ciklus) (IEC 60068-2-30:2005; EN 60068-2-30:2005) Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12h+12h cycle) (IEC 60068-2-30:2005; EN 60068-2-30:2005)
HRN EN 60068-2-11:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Ka: Ispitivanje: Slana magla (IEC 60068-2-11:1981; EN 60068-2-11:1999) Environmental testing – Part 2: Tests – Test Ka: Salt mist (IEC 60068-2-11:1981; EN 60068-2-11:1999)	Ispitivanje utjecaja okoliša – Dio 2-31: Ispitivanja – Ec: Ispitivanje: Nestručno rukovanje na potrese, prvenstveno za uzorke tipova opreme (IEC 60068-2-31:2008; EN 60068-2-31:2008) Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens (IEC 60068-2-31:2008; EN 60068-2-31:2008)
HRN EN 60068-2-1:2008	Ispitivanje utjecaja okoliša – Dio 2-1: Ispitivanja – Ispitivanje: Hladnoća (IEC 60068-2-1:2007; EN 60068-2-1:2007) Environmental testing – Part 2-1: Tests – Test A: Cold (IEC 60068-2-1:2007; EN 60068-2-1:2007)	Osnovni postupci ispitivanja okoliša – 3. dio: Ispitivanja – Ed: Ispitivanje: Slobodni pad (IEC 60068-2-32:1975+am2:1990; EN 60068-2-32:1993) Basic environmental testing procedures – Part 2: Tests – Test Ed: Free fall (IEC 60068-2-32:1975+am2:1990; EN 60068-2-32:1993)
HRN EN 60068-2-13:2008	Ispitivanje utjecaja okoliša – 2. dio: M: Ispitivanje: Niski tlak zraka (IEC 60068-2-13:1983; EN 60068-2-13:1999) Environmental testing – Part 2: Tests – Test M: Low air pressure (IEC 60068-2-13:1983; EN 60068-2-13:1999)	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Upute o promjeni temperature ispitivanja (IEC 60068-2-33:1971+am1:1978; EN 60068-2-33:1999) Environmental testing – Part 2: Tests – Guidance on change of temperature tests (IEC 60068-2-33:1971+am1:1978; EN 60068-2-33:1999)
HRN EN 60068-2-14:2008	Ispitivanje utjecaja okoliša – 2. dio: N: Ispitivanje: Promjena temperature (IEC 60068-2-14:1984+am1:1986; EN 60068-2-14:1999) Environmental testing – Part 2: Tests – Test N: Change of temperature (IEC 60068-2-14:1984+am1:1986; EN 60068-2-14:1999)	Ispitivanje utjecaja okoliša – Dio 2-38: Ispitivanja – Z/AD: Ispitivanje: Složeno cikličko ispitivanje temperaturna/vlažnost (IEC 60068-2-38:2009; EN 60068-2-38:2009) Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:2009; EN 60068-2-38:2009)
HRN EN 60068-2-14:2010	Ispitivanje utjecaja okoliša – Dio 2-14: Ispitivanja – N: Ispitivanje: Promjena temperature (IEC 60068-2-14:2009; EN 60068-2-14:2009)	

HRN EN 60068-2-39:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/AMD-ispitivanje: Kombinirano sekvencijsko ispitivanje hladno, niski tlak zraka i ispitivanje vlažnost - toplina (IEC 60068-2-39:1976; EN 60068-2-39:1999) Environmental testing – Part 2: Tests – Test Z/AMD: Combined sequential cold, low air pressure and damp heat test (IEC 60068-2-39:1976; EN 60068-2-39:1999)	HRN EN 60068-2-5:2008 Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Sa ispitivanje: Simulirano solarno zračenje na razini tla (IEC 60068-2-5:1975; EN 60068-2-5:1999) Environmental testing – Part 2: Tests – Test Sa: Simulated solar radiation at ground level (IEC 60068-2-5:1975; EN 60068-2-5:1999)
HRN EN 60068-2-40:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/AM ispitivanje: Kombinirana ispitivanja hladno/niski tlak zraka (IEC 60068-2-40:1976+am1:1983; EN 60068-2-40:1999) Environmental testing – Part 2: Tests – Test Z/AM: Combined cold/low air pressure tests (IEC 60068-2-40:1976+am1:1983; EN 60068-2-40:1999)	HRN EN 60068-2-52:2008 Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Kb ispitivanje: Slana magla, ciklički (natrijev klorid) (IEC 60068-2-52:1996; EN 60068-2-52:1996) Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:1996; EN 60068-2-52:1996)
HRN EN 60068-2-41:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/BM ispitivanje: Kombinirana ispitivanja suha toplina/niski tlak zraka (IEC 60068-2-41:1976+am1:1983; EN 60068-2-41:1999) Environmental testing – Part 2: Tests – Test Z/BM: Combined dry heat/low air pressure tests (IEC 60068-2-41:1976+am1:1983; EN 60068-2-41:1999)	HRN EN 60068-2-53:2011 Ispitivanje utjecaja okoliša – Dio 2-53: Ispitivanja i upute – Kombinirana klimatska (temperatura/vлага) i dinamička (vibracija/udar) ispitivanja (IEC 60068-2-53:2010; EN 60068-2-53:2010) Environmental testing – Part 2-53: Tests and guidance – Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests (IEC 60068-2-53:2010; EN 60068-2-53:2010)
HRN EN 60068-2-45:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Xa ispitivanje i upute: Uranjanje u otapala (IEC 60068-2-45:1980+am1:1993; EN 60068-2-45:1992+A1:1993) Environmental testing – Part 2: Tests – Test Xa and guidance: Immersion in cleaning solvents (IEC 60068-2-45:1980+am1:1993; EN 60068-2-45:1992+A1:1993)	HRN EN 60068-2-55:2008 Osnovni postupci ispitivanja okoliša – 2. dio: Ispitivanja – Ee ispitivanje i upute: Odskok (IEC 60068-2-55:1987; EN 60068-2-55:1993) Basic environmental testing procedures – Part 2: Tests – Test Ee and guidance: Bounce (IEC 60068-2-55:1987; EN 60068-2-55:1993)
HRN EN 60068-2-47:2008	Ispitivanje utjecaja okoliša – Dio 2-47: Ispitivanja – Montaža uzoraka za vibraciju, učinak i slična dinamička ispitivanja (IEC 60068-2-47:2005; EN 60068-2-47:2005) Environmental testing – Part 2-47: Tests – Mounting of specimens for vibration, impact and similar dynamic tests (IEC 60068-2-47:2005; EN 60068-2-47:2005)	HRN EN 60068-2-57:2008 Ispitivanje utjecaja okoliša – Dio 2-57: Ispitivanja – Ff ispitivanje: Vibracije – Metoda vrijeme-povijest (IEC 60068-2-57:1999; EN 60068-2-57:2000) Environmental testing – Part 2-57: Tests – Test Ff: Vibration – Time-history method (IEC 60068-2-57:1999; EN 60068-2-57:2000)
HRN EN 60068-2-48:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Upute o primjeni ispitivanja norme IEC 60068 za simulaciju učinaka pohrane (IEC 60068-2-48:1982; EN 60068-2-48:1999) Environmental testing – Part 2: Tests – Guidance on the application of the tests of IEC 60068 to simulate the effects of storage (IEC 60068-2-48:1982; EN 60068-2-48:1999)	HRN EN 60068-2-59:2008 Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Fe ispitivanje: Metoda sinusni udarac (IEC 60068-2-59:1990; EN 60068-2-59:1993) Environmental testing – Part 2: Test methods – Test Fe: Vibration – Sine beat method (IEC 60068-2-59:1990; EN 60068-2-59:1993)
HRN EN 60068-2-50:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/AFc ispitivanja: Kombinirana ispitivanja hladno/vibracija (sinusna) za oba uzorka toplinske i netoplinske disipacije (IEC 60068-2-50:1983; EN 60068-2-50:1999) Environmental testing – Part 2: Tests – Tests Z/AFc: Combined cold/vibration (sinusoidal) tests for both heat-dissipating and non-heat-dissipating specimens (IEC 60068-2-50:1983; EN 60068-2-50:1999)	HRN EN 60068-2-60:2008 Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Ke ispitivanje: Korozionska ispitivanja na tekući miješani plin (IEC 60068-2-60:1995; EN 60068-2-60:1996) Environmental testing – Part 2: Tests – Test Ke: Flowing mixed gas corrosion test (IEC 60068-2-60:1995; EN 60068-2-60:1996)
HRN EN 60068-2-51:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Z/BFc ispitivanja: Kombinirana ispitivanja suha toplina/ vibracija (sinusna) za oba uzorka toplinske i netoplinske disipacije (IEC 60068-2-51:1983; EN 60068-2-51:1999) Environmental testing – Part 2: Tests – Tests Z/BFc: Combined dry heat/vibration (sinusoidal) tests for both heat-dissipating and non-heat-dissipating specimens (IEC 60068-2-51:1983; EN 60068-2-51:1999)	HRN EN 60068-2-61:2008 Ispitivanje utjecaja okoliša – 2. dio: Metode ispitivanja – Z/ABDM ispitivanje: Klimatski niz (IEC 60068-2-61:1991; EN 60068-2-61:1993) Environmental testing – Part 2: Test methods – Test Z/ABDM: Climatic sequence (IEC 60068-2-61:1991; EN 60068-2-61:1993)
HRN EN 60068-2-64:2009		HRN EN 60068-2-64:2009 Ispitivanje utjecaja okoliša – Dio 2-64: Ispitivanja – Fh ispitivanje: Vibracije, širokopojasne slučajne i upute (IEC 60068-2-64:2008; EN 60068-2-64:2008) Environmental testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance (IEC 60068-2-64:2008; EN 60068-2-64:2008)
HRN EN 60068-2-65:2008		HRN EN 60068-2-65:2008 Ispitivanje utjecaja okoliša – 2. dio: Metode ispitivanja – Fg ispitivanje: Vibracije, akustički izazvana (IEC 60068-2-65:1993; EN 60068-2-65:1994) Environmental testing – Part 2: Methods of test – Test Fg: Vibration, acoustically induced (IEC 60068-2-65:1993; EN 60068-2-65:1994)

HRN EN 60068-2-66:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Cx: Ispitivanje: Toplina s vlagom, stabilno stanje (nezasićene tlačne pare) (IEC 60068-2-66:1994; EN 60068-2-66:1994)	Ispitivanje utjecaja okoliša – Dio 2-80: Ispitivanja – Fi: Ispitivanje: Vibracije – Mješoviti način (IEC 60068-2-80:2005; EN 60068-2-80:2005)
	Environmental testing – Part 2: Test methods – Test Cx: Damp heat, steady state (unsaturated pressurized vapour) (IEC 60068-2-66:1994; EN 60068-2-66:1994)	Environmental testing – Part 2-80: Tests – Test Fi: Vibration – Mixed mode (IEC 60068-2-80:2005; EN 60068-2-80:2005)
HRN EN 60068-2-67:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Cy: Ispitivanje: Toplina s vlagom, stabilno stanje, ubrzano ispitivanje prije svega namijenjena za komponente (IEC 60068-2-67:1995; EN 60068-2-67:1996)	Ispitivanje utjecaja okoliša – Dio 2-81: Ispitivanja – Ei: Ispitivanje: Udar – Sinteza spektra odziva na udar (IEC 60068-2-81:2003; EN 60068-2-81:2003)
	Environmental testing – Part 2: Tests – Test Cy: Damp heat, steady state, accelerated test primarily intended for components (IEC 60068-2-67:1995; EN 60068-2-67:1996)	Environmental testing – Part 2-81: Tests – Test Ei: Shock – Shock response spectrum synthesis (IEC 60068-2-81:2003; EN 60068-2-81:2003)
HRN EN 60068-2-68:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – L: Ispitivanje: Prašina i pjesak (IEC 60068-2-68:1994; EN 60068-2-68:1996)	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Upute za ispitivanja sunčevog zračenja (IEC 60068-2-9:1975+am1:1984; EN 60068-2-9:1999)
	Environmental testing – Part 2: Tests – Test L: Dust and sand (IEC 60068-2-68:1994; EN 60068-2-68:1996)	Environmental testing – Part 2: Tests – Guidance for solar radiation testing (IEC 60068-2-9:1975+am1:1984; EN 60068-2-9:1999)
HRN EN 60068-2-70:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Xb: Ispitivanje: Trošenje oznaka i natpisa uzrokovanih trljanjem prstima i rukama (IEC 60068-2-70:1995; EN 60068-2-70:1996)	Ispitivanje utjecaja okoliša – Dio 3-11: Popratna dokumentacija i upute – Proračun nesigurnosti uvjeta u klimatskim ispitnim komorama (IEC 60068-3-11:2007; EN 60068-3-11:2007)
	Environmental testing – Part 2: Tests – Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands (IEC 60068-2-70:1995; EN 60068-2-70:1996)	Environmental testing – Part 3-11: Supporting documentation and guidance – Calculation of uncertainty of conditions in climatic test chambers (IEC 60068-3-11:2007; EN 60068-3-11:2007)
HRN EN 60068-2-7:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Ga: Ispitivanje: Ubrzanje, stabilno stanje (IEC 60068-2-7:1983+am1:1986; EN 60068-2-7:1993)	Ispitivanje utjecaja okoliša – 3. dio: Osnovne informacije – 1. sekcija: Toplinska ispitivanja na hladno i suho (IEC 60068-3-1:1974+am1:1978; EN 60068-3-1:1999)
	Environmental testing – Part 2: Tests – Test Ga: Acceleration, steady state (IEC 60068-2-7:1983+am1:1986; EN 60068-2-7:1993)	Environmental testing – Part 3: Background information – Section 1: Cold and dry heat tests (IEC 60068-3-1:1974+am1:1978; EN 60068-3-1:1999)
HRN EN 60068-2-74:2008	Ispitivanje utjecaja okoliša – 2. dio: Ispitivanja – Xc: Ispitivanje: Onečišćenje fluida (IEC 60068-2-74:1999; EN 60068-2-74:1999)	Ispitivanje utjecaja okoliša – 3. dio: Osnovne informacije – 2. sekacija: Kombinirano ispitivanje temperaturna/niski tlak zraka (IEC 60068-3-2:1976; EN 60068-3-2:1999)
	Environmental testing – Part 2: Tests – Test Xc: Fluid contamination (IEC 60068-2-74:1999; EN 60068-2-74:1999)	Environmental testing – Part 3: Background information – Section 2: Combined temperature/low air pressure tests (IEC 60068-3-2:1976; EN 60068-3-2:1999)
HRN EN 60068-2-75:2008	Ispitivanje utjecaja okoliša – Dio 2-75: Ispitivanja – Eh: Ispitivanje: Ispitivanja čekićem (IEC 60068-2-75:1997; EN 60068-2-75:1997)	Ispitivanje utjecaja okoliša – 3. dio: Upute – Metode ispitivanja opreme na potresna (IEC 60068-3-3:1991; EN 60068-3-3:1993)
	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 60068-2-75:1997; EN 60068-2-75:1997)	Environmental testing – Part 3: Guidance – Seismic test methods for equipment (IEC 60068-3-3:1991; EN 60068-3-3:1993)
HRN EN 60068-2-78:2008	Ispitivanje utjecaja okoliša – Dio 2-78: Ispitivanja – Cab: Ispitivanje: Toplina s vlagom, stabilno stanje (IEC 60068-2-78:2001; EN 60068-2-78:2001)	Ispitivanje utjecaja okoliša – Dio 3-4: Popratna dokumentacija i upute – Ispitivanja topoline s vlagom (IEC 60068-3-4:2001; EN 60068-3-4:2002)
	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state (IEC 60068-2-78:2001; EN 60068-2-78:2001)	Environmental testing – Part 3-4: Supporting documentation and guidance – Damp heat tests (IEC 60068-3-4:2001; EN 60068-3-4:2002)
HRN EN 60068-2-78:2013	Ispitivanje utjecaja okoliša – Dio 2-78: Ispitivanja – Cab: Ispitivanje: Toplina s vlagom, stabilno stanje (IEC 60068-2-78:2012; EN 60068-2-78:2013)	Ispitivanje utjecaja okoliša – Dio 3-5: Popratna dokumentacija i upute – Potvrda o izvedbi temperaturnih komora (IEC 60068-3-5:2001; EN 60068-3-5:2002)
	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state (IEC 60068-2-78:2012; EN 60068-2-78:2013)	Environmental testing – Part 3-5: Supporting documentation and guidance – Confirmation of the performance of temperature chambers (IEC 60068-3-5:2001; EN 60068-3-5:2002)

HRN EN 60068-3-6:2008	Ispitivanje utjecaja okoliša – Dio 3-6: Popratna dokumentacija i upute – Potvrda o izvedbi temperatura/vlažnost komora (IEC 60068-3-6:2001; EN 60068-3-6:2002)	Low-voltage fuses – Part 3-1: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) – Sections I to IV: Examples of types of standardized fuses (IEC 60269-3-1:2004, MOD; HD 60269-3-1:2004)
	Environmental testing – Part 3-6: Supporting documentation and guidance – Confirmation of the performance of temperature/humidity chambers (IEC 60068-3-6:2001; EN 60068-3-6:2002)	
HRN EN 60068-3-7:2008	Ispitivanje utjecaja okoliša – Dio 3-7: Popratna dokumentacija i upute – Mjerenja temperature u komorama za A i B ispitivanja (s opterećenjem) (IEC 60068-3-7:2001; EN 60068-3-7:2002)	
	Environmental testing – Part 3-7: Supporting documentation and guidance – Measurements in temperature chambers for tests A and B (with load) (IEC 60068-3-7:2001; EN 60068-3-7:2002)	
HRN EN 60068-3-8:2008	Ispitivanje utjecaja okoliša – Dio 3-8: Popratna dokumentacija i upute – Odabir među vibracijskih ispitivanja (IEC 60068-3-8:2003; EN 60068-3-8:2003)	Konvencije o električnim i magnetskim krugovima (IEC 60375:2003; EN 60375:2003)
	Environmental testing – Part 3-8: Supporting documentation and guidance – Selecting amongst vibration tests (IEC 60068-3-8:2003; EN 60068-3-8:2003)	Conventions concerning electric and magnetic circuits (IEC 60375:2003; EN 60375:2003)
HRN EN 60068-4:2008	Ispitivanje utjecaja okoliša – 4. dio: Informacije za pisce specifikacija – Sažeci ispitivanja (IEC 60068-4:1987+am1:1992+am2:1994; EN 60068-4:1996)	Magnetski materijali – 2. dio: Mjerene metode magnetskih svojstava električnih čeličnih traka i limova pomoću Epstein ovkira (IEC 60404-2:1996+am1:2008; EN 60404-2:1998+A1:2008)
	Environmental testing – Part 4: Information for specification writers – Test summaries (IEC 60068-4:1987+am1:1992+am2:1994; EN 60068-4:1996)	Magnetic materials – Part 2: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of an Epstein frame (IEC 60404-2:1996+am1:2008; EN 60404-2:1998+A1:2008)
HRN EN 60068-5-2:2008	Ispitivanje utjecaja okoliša – 5. dio: Upute za izradu ispitnih metoda – Nazivi i definicije (IEC 60068-5-2:1990; EN 60068-5-2:1999)	Magnetski materijali – 4. dio: Mjerene metode magnetskih svojstava magnetski mekih materijala istosmjernom strujom (IEC 60404-4:1995+am1:2000; EN 60404-4:1997+A1:2002)
	Environmental testing – Part 5: Guide to drafting of test methods – Terms and definitions (IEC 60068-5-2:1990; EN 60068-5-2:1999)	Magnetic materials – Part 4: Methods of measurement of d.c. magnetic properties of magnetically soft materials (IEC 60404-4:1995+am1:2000; EN 60404-4:1997+A1:2002)
HRN EN 60073:2008	Osnovna i sigurnosna načela za sučelje čovjek-stroj, obilježavanje i prepoznavanje – Načela kodiranja za indikatore i aktuator (IEC 60073:2002; EN 60073:2002)	
	Basic and safety principles for man-machine interface, marking and identification – Coding principles for indicators and actuators (IEC 60073:2002; EN 60073:2002)	
HRN HD 60269-2-1:2009	Niskonaponski osigurači – Dio 2-1: Dodatni zahtjevi za osigurače kojima rukuju ovlaštene osobe (osigurači uglavnom namijenjeni za industrijsku primjenu) – Odjeljak I do VI: Primjeri tipova standardiziranih osigurača (IEC 60269-2-1:2004, MOD; HD 60269-2-1:2005)	Magnetski materijali – 5. dio: Permanentni magnetski (magnetski tvrdi) materijali – Mjerene metode magnetskih svojstava (IEC 60404-5:1993+am1:2007; EN 60404-5:2007)
	Low-voltage fuses – Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Sections I to VI: Examples of types of standardized fuses (IEC 60269-2-1:2004, MOD; HD 60269-2-1:2005)	Magnetic materials – Part 5: Permanent magnet (magnetically hard) materials – Methods of measurement of magnetic properties (IEC 60404-5:1993+am1:2007; EN 60404-5:2007)
HRN HD 60269-3-1:2009	Niskonaponski osigurači – Dio 3-1: Dodatni zahtjevi za osigurače kojima rukuju nestručne osobe (osigurači uglavnom namijenjeni za kućanstvo i slične primjene) – Odjeljak I do IV: Primjeri tipova standardiziranih osigurača (IEC 60269-3-1: 2004, MOD; HD 60269-3-1:2004)	Magnetski materijali – 6. dio: Mjerene metode magnetskih svojstava magnetski mekih metalnih i praškastih materijala na frekvencijama u rasponu od 20 Hz do 200 kHz uporabom prstenastih uzoraka (IEC 60404-6:2003; EN 60404-6:2003)
		Magnetic materials – Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 200 kHz by the use of ring specimens (IEC 60404-6:2003; EN 60404-6:2003)

HRN EN 60404-8-6:2010

Magnetski materijali – Dio 8-6: Specifikacije za pojedinačne materijale – Mekani magnetski metalni materijali (IEC 60404-8-6:1999+am1:2007; EN 60404-8-6:2009)  
Magnetic materials – Part 8-6: Specifications for individual materials – Soft magnetic metallic materials (IEC 60404-8-6:1999+am1:2007; EN 60404-8-6:2009)

HRN EN 60404-13:2008

Magnetski materijali – 13. dio: Mjerne metode za gustoću, otpor i faktor električnoga čeličnog lima i trake (IEC 60404-13:1995; EN 60404-13:2007)  
Magnetic materials – Part 13: Methods of measurement of density, resistivity and stacking factor of electrical steel sheet and strip (IEC 60404-13:1995; EN 60404-13:2007)

HRN EN 60404-14:2008

Magnetski materijali – 14. dio: Mjerne metode za magnetski dipolni moment od feromagnetskog uzorka za povlačenje ili rotacijsku metodu (IEC 60404-14:2002; EN 60404-14:2002)  
Magnetic materials – Part 14: Methods of measurement of the magnetic dipole moment of a ferromagnetic material specimen by the withdrawal or rotation method (IEC 60404-14:2002; EN 60404-14:2002)

HRN EN 60404-15:2013

Magnetski materijali – 15. dio: Metode za određivanje relativne magnetske permeabilnosti slabo otpornih magnetskih materijala (IEC 60404-15:2012; EN 60404-15:2012)  
Magnetic materials – Part 15: Methods for the determination of the relative magnetic permeability of feebly magnetic materials (IEC 60404-15:2012; EN 60404-15:2012)

HRN EN 60445:2008

Osnovna i sigurnosna načela za sučelje čovjek-stroj, označivanje i identifikacija – Identifikacija priključaka opreme i krajeva vodiča (IEC 60445:2006, MOD; EN 60445:2007)  
Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals and conductor terminations (IEC 60445:2006, MOD; EN 60445:2007)

HRN EN 60445:2011

Osnovna i sigurnosna načela za sučelje čovjek-stroj, označivanje i identifikacija – Identifikacija priključaka opreme, krajeva vodiča i vodiča (IEC 60445:2010; EN 60445:2010)  
Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals, conductor terminations and conductors (IEC 60445:2010; EN 60445:2010)

HRN EN 60447:2008

Osnovna i sigurnosna načela za sučelje čovjek-stroj, označivanje i identifikacija – Pokretačka načela (IEC 60447:2004; EN 60447:2004)  
Basic and safety principles for man-machine interface, marking and identification – Actuating principles (IEC 60447:2004; EN 60447:2004)

HRN EN 60695-1-10:2011

Ispitivanje opasnosti od požara – Dio 1-10: Upute za procjenu opasnosti od požara za elektrotehničke proizvode – Opće smjernice (IEC 60695-1-10:2009; EN 60695-1-10:2010)  
Fire hazard testing – Part 1-10: Guidance for assessing the fire hazard of electrotechnical products – General guidelines (IEC 60695-1-10:2009; EN 60695-1-10:2010)

HRN EN 60695-1-11:2011

Ispitivanje opasnosti od požara – Dio 1-11: Upute za procjenu opasnosti od požara za elektrotehničke proizvode – Procjena opasnosti od požara (IEC 60695-1-11:2010; EN 60695-1-11:2010)  
Fire hazard testing – Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment (IEC 60695-1-11:2010; EN 60695-1-11:2010)

HRN EN 60695-1-30:2010

Ispitivanje opasnosti od požara – Dio 1-30: Upute za procjenu opasnosti od požara za elektrotehničke proizvode – Unaprijed odabrani postupci ispitivanja – Opće smjernice (IEC 60695-1-30:2008; EN 60695-1-30:2008)  
Fire hazard testing – Part 1-30: Guidance for assessing the fire hazard of electrotechnical products – Preselection testing process – General guidelines (IEC 60695-1-30:2008; EN 60695-1-30:2008)

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

### 01.040.13 Okoliš. Zaštita zdravlja. Sigurnost (Rječnici)

#### Međunarodna normizacija IEC

IEC 60743:2013  
Live working – Terminology for tools, devices and equipment

### 01.040.19 Ispitivanje (Rječnici)

#### Međunarodna normizacija ISO

ISO 26824:2013  
Particle characterization of particulate systems – Vocabulary

### 01.100.20 Crteži u strojarstvu

#### Međunarodna normizacija ISO

ISO 128-15:2013  
Technical product documentation (TPD) – General principles of presentation – Part 15: Presentation of shipbuilding drawings

### 01.120 Normizacija. Opća pravila

#### Europska normizacija CEN/CENELEC

CEN-CENELEC Guide 20:2013  
Guide on membership criteria of CEN and CENELEC  
CEN-CENELEC Guide 22:2013  
Guide on the organisational structure and processes for the assessment of the membership criteria of CEN and CENELEC

### 03.160 Pravosuđe. Uprava

#### Europska normizacija CEN

EN 419211-2:2013  
Protection profiles for secure signature creation device – Part 2: Device with key generation

### 03.220.01 Prijevoz općenito

#### Međunarodna normizacija ISO

ISO 24102-1:2013  
Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 1: Local management  
ISO 24102-3:2013  
Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 3: Service access points

ISO 24102-4:2013

Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 4: Station-internal management communications

ISO 24102-5:2013

Intelligent transport systems – Communications access for land mobiles (CALM) – ITS station management – Part 5: Fast service advertisement protocol (FSAP)

### 07.100.99 Ostale norme koje se odnose na mikrobiologiju

#### Europska normizacija CEN

EN ISO 20743:2013  
Textiles – Determination of antibacterial activity of textile products (ISO 20743:2013)

#### Međunarodna normizacija ISO

ISO 20743:2013  
Textiles – Determination of antibacterial activity of textile products

### 11.040.25 Šprice. Igle. Kateteri

#### Europska normizacija CEN

EN ISO 10555-1:2013  
Intravascular catheters – Sterile and single-use catheters – Part 1: General requirements (ISO 10555-1:2013, Corrected version 2013-07-01)

EN ISO 10555-3:2013  
Intravascular catheters – Sterile and single-use catheters – Part 3: Central venous catheters (ISO 10555-3:2013)

EN ISO 10555-4:2013  
Intravascular catheters – Sterile and single-use catheters – Part 4: Balloon dilatation catheters (ISO 10555-4:2013)

EN ISO 10555-5:2013  
Intravascular catheters – Sterile and single-use catheters – Part 5: Over-needle peripheral catheters (ISO 10555-5:2013)

### 11.040.50 Radiografska oprema

#### Međunarodna normizacija IEC

IEC 60627:2013  
Diagnostic X-ray imaging equipment – Characteristics of general purpose and mammographic anti-scatter grids

### 11.040.55 Dijagnostička oprema

#### Međunarodna normizacija IEC

IEC 80601-2-30:2009/am1:2013  
Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers; Amendment 1

IEC 80601-2-30 Edition 1.1:2013  
Medical electrical equipment – Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers

## **11.040.60 Terapeutska oprema**

### **Međunarodna normizacija**

**IEC**

IEC 60601-2-62:2013

Medical electrical equipment – Part 2-62: particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment

## **11.060.01 Stomatologija općenito**

### **Europska normizacija**

**CEN**

EN ISO 16498:2013

Dentistry – Minimal dental implant data set for clinical use (ISO 16498:2013)

### **Međunarodna normizacija**

**ISO**

ISO 16498:2013

Dentistry – Minimal dental implant data set for clinical use

## **11.060.10 Stomatološki materijali**

### **Europska normizacija**

**CEN**

EN ISO 7405:2008/A1:2013

Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1: Positive control material (ISO 7405:2008/Amd 1:2013)

### **Međunarodna normizacija**

**ISO**

ISO 7405:2008/Amd 1:2013

Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1: Positive control material

## **11.080.99 Ostale norme koje se odnose na sterilizaciju i dezinfekciju**

### **Europska normizacija**

**CEN**

EN ISO 11137-1:2006/A1:2013

Sterilization of health care products – Radiation – Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (ISO 11137-1:2006/Amd 1:2013)

### **Međunarodna normizacija**

**ISO**

ISO 11137-1:2006/Amd 1:2013

Sterilization of health care products – Radiation – Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices

## **11.100.20 Biološko vrednovanje medicinskih proizvoda**

### **Europska normizacija**

**CEN**

EN ISO 7405:2008/A1:2013

Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1: Positive control material (ISO 7405:2008/Amd 1:2013)

### **Međunarodna normizacija**

**ISO**

ISO 7405:2008/Amd 1:2013

Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1: Positive control material

## **13.020.40 Onečišćenje, nadzor nad onečišćenjem i zaštita od onečišćenja**

### **Međunarodna normizacija**

**ISO**

ISO 16759:2013

Graphic technology – Quantification and communication for calculating the carbon footprint of print media products

## **13.040.20 Atmosfera okoliša**

### **Europska normizacija**

**CEN**

EN 16339:2013

Ambient air – Method for the determination of the concentration of nitrogen dioxide by diffusive sampling

## **13.080.30 Biološka svojstva tla**

### **Europska normizacija**

**CEN**

EN ISO 23611-6:2013

Soil quality – Sampling of soil invertebrates – Part 6: Guidance for the design of sampling programmes with soil invertebrates (ISO 23611-6:2012)

## **13.110 Sigurnost strojeva**

### **Europska normizacija**

**CEN**

EN ISO 13856-3:2013

Safety of machinery – Pressure-sensitive protective devices – Part 3: General principles for design and testing of pressure-sensitive bumpers, plates, wires and similar devices (ISO 13856-3:2013)

### **Međunarodna normizacija**

**ISO**

ISO 13856-3:2013

Safety of machinery – Pressure-sensitive protective devices – Part 3: General principles for design and testing of pressure-sensitive bumpers, plates, wires and similar devices

## **13.160 Utjecaj vibracija i udara na ljudе**

### **Europska normizacija CEN**

EN ISO 10819:2013  
 Mechanical vibration and shock – Hand-arm vibration  
 – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand (ISO 10819:2013)

### **Međunarodna normizacija ISO**

ISO 10819:2013  
 Mechanical vibration and shock – Hand-arm vibration  
 – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand

## **13.220.01 Zaštita od požara općenito**

### **Međunarodna normizacija ISO**

ISO/TR 15657:2013  
 Fire resistance tests – Guidelines for computational structural fire design  
 ISO/TR 16730-2:2013  
 Fire safety engineering – Assessment, verification and validation of calculation methods – Part 2: Example of a fire zone model

## **13.220.10 Vatrogastvo**

### **Europska normizacija CEN**

EN 1846-3:2013  
 Firefighting and rescue service vehicles – Part 3:  
 Permanently installed equipment – Safety and performance

## **13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju**

### **Europska normizacija CEN**

EN ISO 9038:2013  
 Determination of sustained combustibility of liquids (ISO 9038:2013)

### **CENELEC**

EN 60695-2-10:2013  
 Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure (IEC 60695-2-10:2013)

### **Međunarodna normizacija ISO**

ISO 9038:2013  
 Determination of sustained combustibility of liquids

## **13.240 Zaštita od previsokoga tlaka**

### **Europska normizacija CEN**

EN ISO 4126-1:2013  
 Safety devices for protection against excessive pressure – Part 1: Safety valves (ISO 4126-1:2013)

EN ISO 4126-4:2013  
 Safety devices for protection against excessive pressure – Part 4: Pilot-operated safety valves (ISO 4126-4:2013)

EN ISO 4126-5:2013  
 Safety devices for protection against excessive pressure – Part 5: Controlled safety pressure relief systems (CSPRS) (ISO 4126-5:2013)

EN ISO 4126-7:2013  
 Safety devices for protection against excessive pressure – Part 7: Common data (ISO 4126-7:2013)

### **Međunarodna normizacija ISO**

ISO 4126-1:2013  
 Safety devices for protection against excessive pressure – Part 1: Safety valves

ISO 4126-4:2013  
 Safety devices for protection against excessive pressure – Part 4: Pilot operated safety valves

ISO 4126-5:2013  
 Safety devices for protection against excessive pressure – Part 5: Controlled safety pressure relief systems (CSPRS)

ISO 4126-7:2013  
 Safety devices for protection against excessive pressure – Part 7: Common data

## **13.260 Zaštita od električnog udara. Rad pod naponom**

### **Međunarodna normizacija IEC**

IEC/TR 60479-5:2007/Corr.1:2013  
 Effects of current on human beings and livestock – Part 5: Touch voltage threshold values for physiological effects; Corrigendum 1

IEC 60743:2013  
 Live working – Terminology for tools, devices and equipment

## **13.310 Zaštita od kriminala**

### **Međunarodna normizacija IEC**

IEC 62676-3:2013  
 Video surveillance systems for use in security applications – Part 3: Analog and digital video interfaces

## **13.320 Alarmni sustavi i sustavi uzbunjivanja**

### **Europska normizacija CENELEC**

EN 60839-11-1:2013  
 Alarm and electronic security systems – Part 11-1: Electronic access control systems – System and components requirements (IEC 60839-11-1:2013)

## **13.340.10 Zaštitna odjeća**

### **Europska normizacija**

**CEN**

EN ISO 13688:2013

Protective clothing – General requirements  
(ISO 13688:2013)

### **Međunarodna normizacija ISO**

ISO 13688:2013

Protective clothing – General requirements

## **13.340.30 Uređaji za zaštitu dišnih organa**

### **Europska normizacija**

**CEN**

EN 14143:2013

Respiratory equipment – Self-contained re-breathing diving apparatus

## **13.340.40 Zaštita ruku i šaka**

### **Europska normizacija**

**CEN**

EN ISO 10819:2013

Mechanical vibration and shock – Hand-arm vibration  
– Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand  
(ISO 10819:2013)

### **Međunarodna normizacija ISO**

ISO 10819:2013

Mechanical vibration and shock – Hand-arm vibration  
– Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand

## **17.040.30 Mjerni instrumenti**

### **Europska normizacija**

**CEN**

EN ISO 10579:2013

Geometrical product specifications (GPS) – Dimensioning and tolerancing – Non-rigid parts  
(ISO 10579:2010 including Cor 1:2011)

EN ISO 14253-2:2011/AC:2013

Geometrical product specifications (GPS) – Inspection by measurement of workpieces and measuring equipment – Part 2: Guidance for the estimation of uncertainty in GPS measurement, in calibration of measuring equipment and in product verification – Technical Corrigendum 1  
(ISO 14253-2:2011/Cor 1:2013)

### **Međunarodna normizacija ISO**

ISO 14253-2:2011/Cor 1:2013

Geometrical product specifications (GPS) – Inspection by measurement of workpieces and measuring equipment – Part 2: Guidance for the estimation of uncertainty in GPS measurement, in calibration of measuring equipment and in product verification; Technical Corrigendum 1

## **17.140.20 Buka koju proizvode strojevi i oprema**

### **Europska normizacija**

**CEN**

EN 12102:2013

Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling – Measurement of airborne noise – Determination of the sound power level

## **17.140.30 Buka koju proizvode prijevozna sredstva**

### **Europska normizacija**

**CEN**

EN ISO 2922:2000/A1:2013

Acoustics – Measurement of airborne sound emitted by vessels on inland waterways and harbours – Amendment 1 (ISO 2922:2000/Amd 1:2013)

### **Međunarodna normizacija ISO**

ISO 2922:2000/Amd 1:2013

Acoustics – Measurement of airborne sound emitted by vessels on inland waterways and harbours; Amendment 1

## **17.140.50 Elektroakustika**

### **Europska normizacija**

**CENELEC**

EN 62127-3:2007/A1:2013

Ultrasonics – Hydrophones – Part 3: Properties of hydrophones for ultrasonic fields up to 40 MHz  
(IEC 62127-3:2007/A1:2013)

## **17.240 Mjerenja zračenja**

### **Međunarodna normizacija**

**ISO**

ISO 13304-1:2013

Radiological protection – Minimum criteria for electron paramagnetic resonance (EPR) spectroscopy for retrospective dosimetry of ionizing radiation – Part 1: General principles

**IEC**

IEC/TR 62493-1:2013

Assessment of Lighting Equipment Related to Human Exposure to Electromagnetic Fields Results of the EMF Measurement Campaign from the VDE Test and Certification Institute and the ZVEI, the German Electrical and Electronic Manufacturers' Association

## **19.120 Analiza veličine čestica. Prosijavanje**

### **Međunarodna normizacija**

**ISO**

ISO 26824:2013

Particle characterization of particulate systems – Vocabulary

## 21.040.30 Posebni vijčani navozi

### Europska normizacija

CEN

EN ISO 15245-1:2001/A1:2013

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001/Amd 1:2013)

### Međunarodna normizacija

ISO

ISO 15245-1:2001/Amd 1:2013

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification

## 21.060.01 Spojni elementi općenito

### Međunarodna normizacija

ISO

ISO 12996:2013

Mechanical joining – Destructive testing of joints – Specimen dimensions and test procedure for tensile shear testing of single joints

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija

ISO

ISO 582:1995/Amd 1:2013

Rolling bearings – Chamfer dimensions – Maximum values; Amendment 1

## 21.160 Opruge

### Europska normizacija

CEN

EN 13906-1:2013

Cylindrical helical springs made from round wire and bar – Calculation and design – Part 1: Compression springs

## 23.020.30 Tlačne posude, cilindrični plinski spremnici

### Europska normizacija

CEN

EN 13445-5:2009/A4:2013

Unfired pressure vessels – Part 5: Inspection and testing

EN ISO 11120:1999/A1:2013

Gas cylinders – Refillable seamless steel tubes for compressed gas transport, of water capacity between 150 l and 3000 l – Design construction and testing – Amendment 1: Requirements for design of tubes for embrittling gases (ISO 11120:1999/Amd 1:2013)

EN ISO 15245-1:2001/A1:2013

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001/Amd 1:2013)

### Međunarodna normizacija

ISO

ISO 11120:1999/Amd 1:2013

Gas cylinders – Refillable seamless steel tubes for compressed gas transport, of water capacity between 150 l and 3000 l – Design construction and testing – Amendment 1: Requirements for design of tubes for embrittling gases

ISO 15245-1:2001/Amd 1:2013

Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification

## 23.140 Kompresori i pneumatski strojevi

### Europska normizacija

CEN

EN 12900:2013

Refrigerant compressors – Rating conditions, tolerances and presentation of manufacturer's performance data

## 25.040.01 Sustavi industrijske automatizacije općenito

### Međunarodna normizacija

ISO

ISO/TR 18161:2013

Automation systems and integration – Applications integration approach using information exchange requirements modelling and software capability profiling

## 25.160.30 Oprema za zavarivanje

### Europska normizacija

CENELEC

EN 60974-5:2013

Arc welding equipment – Part 5: Wire feeders (IEC 60974-5:2013)

EN ISO 9312:2013

Resistance welding equipment – Insulated pins for use in electrode back-ups (ISO 9312:2013)

### Međunarodna normizacija

ISO

ISO 9312:2013

Resistance welding equipment – Insulated pins for use in electrode back-ups

## 27.070 Gorivi članci

### Međunarodna normizacija

IEC

IEC 62282-3-201:2013

Fuel cell technologies – Part 3-201: Stationary fuel cell power systems – Performance test methods for small fuel cell power systems

## 27.080 Dizalice topline

### Europska normizacija CEN

EN 12102:2013

Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling – Measurement of airborne noise – Determination of the sound power level

EN 14511-3:2013

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 3: Test methods

## 27.200 Rashladna tehnologija (tehnika)

### Europska normizacija CEN

EN 12900:2013

Refrigerant compressors – Rating conditions, tolerances and presentation of manufacturer's performance data

EN 15218:2013

Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling – Terms, definitions, test conditions, test methods and requirements

## 29.020 Elektrotehnika općenito

### Europska normizacija CENELEC

EN 60695-2-10:2013

Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure (IEC 60695-2-10:2013)

EN 62321-1:2013

Determination of certain substances in electrotechnical products – Part 1: Introduction and overview (IEC 62321-1:2013)

## 29.035.60 Lakirani proizvodi

### Međunarodna normizacija IEC

IEC 60464-1 Edition 2.1:2013

Varnishes used for electrical insulation – Part 1: Definitions and general requirements

## 29.060.10 Žice

### Međunarodna normizacija IEC

IEC 60851-3:2009/am1:2013

Winding wires – Test methods – Part 3: Mechanical properties; Amendment 1

IEC 60851-3 Edition 3.1:2013

Winding wires – Test methods – Part 3: Mechanical properties

## 29.060.20 Kabeli

### Međunarodna normizacija IEC

IEC/TR 61200-52:2013

Electrical installation guide – Part 52: Selection and erection of electrical equipment – Wiring systems

## 29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

### Međunarodna normizacija IEC

IEC 60269-2:2013

Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K

IEC 61643-312:2013/Corr.1:2013

Components for low-voltage surge protective devices – Part 312: Selection and application principles for gas discharge tubes; Corrigendum 1

IEC 62606:2013

General requirements for arc fault detection devices

## 29.120.70 Sklopniči (releji)

### Europska normizacija CENELEC

EN 62246-1-1:2013

Reed switches – Part 1-1: Generic specification – Quality assessment (IEC 62246-1-1:2013)

### Međunarodna normizacija IEC

IEC 60255-149:2013

Measuring relays and protection equipment – Part 149: Functional requirements for thermal electrical relays

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Europska normizacija CENELEC

EN 62271-109:2009/A1:2013

Highvoltage switchgear and controlgear – Part 109: Alternating current series capacitor by-pass switches (IEC 62271-109:2008/A1:2013)

### Međunarodna normizacija IEC

IEC 62271-203:2011/Corr.1:2013

High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV; Corrigendum 1

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Međunarodna normizacija IEC

IEC 60081:1997/am5:2013

Double-capped fluorescent lamps – Performance specifications

## **29.140.40 Rasvjetna tijela**

### **Europska normizacija**

#### **CENELEC**

EN 60598-2-11:2013

Luminaires – Part 2-11: Particular requirements –  
Aquarium luminaires (IEC 60598-2-11:2013)

## **29.180 Transformatori. Prigušnice**

### **Međunarodna normizacija**

#### **IEC**

IEC 60076-3:2013

Power transformers – Part 3: Insulation levels,  
dielectric tests and external clearances in air

IEC 61558-2-26:2013

Safety of transformers, reactors, power supply units  
and combinations thereof – Part 2-26: Particular  
requirements and tests for transformers and power  
supply units all for saving energy and other purposes

## **29.200 Ispравljači. Pretvarači. Stabilizirano napajanje**

### **Međunarodna normizacija**

#### **IEC**

IEC/TR 62543:2011/am1:2013

High-voltage direct current (HVDC) transmission using  
voltage sourced converters (VSC); Amendment 1

IEC/TR 62543 Edition 1.1:2013

High-voltage direct current (HVDC) POWER  
transmission using voltage sourced converters (VSC)

## **29.240.01 Mreže za prijenos i razdiobu električne energije općenito**

### **Međunarodna normizacija**

#### **IEC**

IEC 61968-100:2013

Application integration at electric utilities – System  
interfaces for distribution management – Part 100:  
Implementation Profiles

## **29.240.10 Podstanice. Odvodnici prenapona**

### **Europska normizacija**

#### **CENELEC**

EN 60099-5:2013

Surge arresters – Part 5: Selection and application  
recommendations (IEC 60099-5:2013)

### **Međunarodna normizacija**

#### **IEC**

IEC/TR 62543:2011/am1:2013

High-voltage direct current (HVDC) transmission using  
voltage sourced converters (VSC); Amendment 1

IEC/TR 62543 Edition 1.1:2013

High-voltage direct current (HVDC) POWER  
transmission using voltage sourced converters (VSC)

## **31.020 Elektronički sastavni dijelovi općenito**

### **Europska normizacija**

#### **CENELEC**

EN 60286-3:2013

Packaging of components for automatic handling –  
Part 3: Packaging of surface mount components on  
continuous tapes (IEC 60286-3:2013)

### **Međunarodna normizacija**

#### **IEC**

IEC 60286-4:2013

Packaging of components for automatic handling –  
Part 4: Stick magazines for electronic components  
encapsulated in packages of different forms

## **31.060.99 Ostali kondenzatori**

### **Međunarodna normizacija**

#### **IEC**

IEC 60358-1:2012/Corr.1:2013

Coupling capacitors and capacitor dividers – Part 1:  
Common clauses; Corrigendum 1

## **31.080.01 Poluvodičke naprave općenito**

### **Međunarodna normizacija**

#### **IEC**

IEC 62047-11:2013

Semiconductor devices – Micro-electromechanical  
devices – Part 11: Test method for coefficients of linear  
thermal expansion of free-standing materials for micro-  
electromechanical systems

IEC 62047-18:2013

Semiconductor devices – Micro-electromechanical  
devices – Part 18: Bend testing methods of thin film  
materials

## **31.080.10 Diode**

### **Međunarodna normizacija**

#### **IEC**

IEC 60747-3:2013

Semiconductor devices – Part 3: Discrete devices:  
Signal, switching and regulator diodes

## **31.080.30 Tranzistori**

### **Međunarodna normizacija**

#### **IEC**

IEC 62860:2013

Test Methods for the Characterization of Organic  
Transistors and Materials

IEC 62860-1:2013

Test Methods for the Characterization of Organic  
Transistor-Based Ring Oscillators

## **31.120 Elektronički uređaji za prikazivanje**

### **Europska normizacija CENELEC**

EN 62595-1-1:2013  
LCD backlight unit – Part 1-1: Generic specification  
(IEC 62595-1-1:2013)

### **Međunarodna normizacija IEC**

IEC 61747-10-1:2013  
Liquid crystal display devices – Part 10-1: Mechanical test methods

## **31.180 Tiskani krugovi i pločice**

### **Europska normizacija CENELEC**

EN 61189-11:2013  
Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 11: Measurement of melting temperature or melting temperature ranges of solder alloys  
(IEC 61189-11:2013)

## **31.200 Integrirani krugovi. Mikroelektronika**

### **Međunarodna normizacija IEC**

IEC 62215-3:2013  
Integrated circuits – Measurement of impulse immunity – Part 3: Non-synchronous transient injection method

## **31.220.01 Elektromehanički sastavni dijelovi općenito**

### **Međunarodna normizacija IEC**

IEC 62047-11:2013  
Semiconductor devices – Micro-electromechanical devices – Part 11: Test method for coefficients of linear thermal expansion of free-standing materials for micro-electromechanical systems

IEC 62047-18:2013  
Semiconductor devices – Micro-electromechanical devices – Part 18: Bend testing methods of thin film materials

IEC 62047-19:2013  
Semiconductor devices – Micro-electromechanical devices – Part 19: Electronic compasses

## **31.260 Optoelektronika. Laserska oprema**

### **Međunarodna normizacija IEC**

IEC 62341-5-2:2013  
Organic Light Emitting Diode (OLED) displays – Part 5-2: Mechanical endurance testing methods

## **33.040.01 Telekomunikacijski sustavi općenito**

### **Europska normizacija ETSI**

ETSI TR 103155 V 1.1.1:2013  
Speech and multimedia Transmission Quality (STQ) – Frequency responses of different Mouth simulators and Head And Torso Simulators (HATS)

## **33.040.20 Prijenosni sustavi**

### **Europska normizacija ETSI**

EN 302 217-1 V2.1.1:2013  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics

## **33.040.35 Telefonske mreže**

### **Europska normizacija ETSI**

ETSI TR 102503 V 1.7.1:2013  
Lawful Interception (LI) – ASN.1 Object Identifiers in Lawful Interception and Retained data handling Specifications

## **33.060.20 Prijamna i odašiljačka oprema**

### **Europska normizacija ETSI**

EN 302217-3 V 2.1.1:2013  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 3: Equipment operating in frequency bands where both frequency coordinated or uncoordinated deployment might be applied – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

## **33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi**

### **Europska normizacija ETSI**

EN 302217-1 V 2.1.1:2013  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics

EN 302217-2-2 V 2.1.1:2013  
Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

ETSI TR 102243-1 V 1.2.1:2013  
Fixed Radio Systems – Representative values for transmitter power and antenna gain to support inter-and intra-compatibility and sharing analysis – Part 1: Digital point-to-point systems

### **33.070.50 Globalni sustavi za pokretne komunikacije (GSM)**

#### **Europska normizacija**

##### **ETSI**

- ETSI TS 122101 V 9.12.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Service aspects – Service principles  
(3GPP TS 22.101 version 9.12.0 Release 9)
- ETSI TS 122101 V 10.11.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Service aspects – Service principles  
(3GPP TS 22.101 version 10.11.0 Release 10)
- ETSI TS 122101 V 11.9.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Service aspects – Service principles  
(3GPP TS 22.101 version 11.9.0 Release 11)
- ETSI TS 122173 V 11.5.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services – Stage 1 (3GPP TS 22.173 version 11.5.0 Release 11)
- ETSI TS 123218 V 11.6.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) session handling – IM call model – Stage 2 (3GPP TS 23.218 version 11.6.0 Release 11)
- ETSI TS 124008 V 8.19.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 8.19.0 Release 8)
- ETSI TS 124008 V 11.7.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 11.7.0 Release 11)
- ETSI TS 124139 V 11.3.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – 3GPP system – fixed broadband access network interworking – Stage 3 (3GPP TS 24.139 version 11.3.0 Release 11)
- ETSI TS 124183 V 9.7.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia Subsystem (IMS) Customized Ringing Signal (CRS) – Protocol specification (3GPP TS 24.183 version 9.7.0 Release 9)
- ETSI TS 124183 V 10.4.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia Subsystem (IMS) Customized Ringing Signal (CRS) – Protocol specification (3GPP TS 24.183 version 10.4.0 Release 10)
- ETSI TS 124183 V 11.2.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia Subsystem (IMS) Customized Ringing Signal (CRS) – Protocol specification (3GPP TS 24.183 version 11.2.0 Release 11)
- ETSI TS 124229 V 7.31.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 7.31.0 Release 7)

ETSI TS 124229 V 8.24.0:2013

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 8.24.0 Release 8)

ETSI TS 124229 V 9.16.0:2013

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 9.16.0 Release 9)

ETSI TS 124229 V 10.12.0:2013

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 10.12.0 Release 10)

ETSI TS 124229 V 11.8.0:2013

Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – Stage 3 (3GPP TS 24.229 version 11.8.0 Release 11)

ETSI TS 124237 V 8.13.0:2013

Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity – Stage 3 (3GPP TS 24.237 version 8.13.0 Release 8)

ETSI TS 124237 V 9.15.0:2013

Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity – Stage 3 (3GPP TS 24.237 version 9.15.0 Release 9)

ETSI TS 124237 V 10.11.0:2013

Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity – Stage 3 (3GPP TS 24.237 version 10.11.0 Release 10)

ETSI TS 124237 V 11.7.0:2013

Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity – Stage 3 (3GPP TS 24.237 version 11.7.0 Release 11)

ETSI TS 124292 V 8.17.0:2013

Universal Mobile Telecommunications System (UMTS)  
– LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 8.17.0 Release 8)

ETSI TS 124292 V 9.15.0:2013

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 9.15.0 Release 9)

ETSI TS 124292 V 10.11.0:2013

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 10.11.0 Release 10)

ETSI TS 124292 V 11.5.0:2013

Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS) – Stage 3 (3GPP TS 24.292 version 11.5.0 Release 11)

ETSI TS 124301 V 10.11.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS) – Stage 3 (3GPP TS 24.301 version 10.11.0 Release 10)	ETSI TS 124604 V 8.14.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 8.14.0 Release 8)
ETSI TS 124301 V 11.7.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS) – Stage 3 (3GPP TS 24.301 version 10.11.0 Release 10)	ETSI TS 124604 V 9.11.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 9.11.0 Release 9)
ETSI TS 124302 V 11.7.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks – Stage 3 (3GPP TS 24.302 version 11.7.0 Release 11)	ETSI TS 124604 V 10.6.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 10.6.0 Release 10)
ETSI TS 124303 V 10.7.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobility management based on Dual-Stack Mobile IPv6 – Stage 3 (3GPP TS 24.303 version 10.7.0 Release 10)	ETSI TS 124604 V 11.6.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.604 version 11.6.0 Release 11)
ETSI TS 124303 V 11.3.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobility management based on Dual-Stack Mobile IPv6 – Stage 3 (3GPP TS 24.303 version 11.3.0 Release 11)	ETSI TS 124608 V 8.5.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.608 version 8.5.0 Release 8)
ETSI TS 124337 V 10.8.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) inter-UE transfer – Stage 3 (3GPP TS 24.337 version 10.8.0 Release 10)	ETSI TS 124608 V 9.2.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.608 version 9.2.0 Release 9)
ETSI TS 124337 V 11.5.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) inter-UE transfer – Stage 3 (3GPP TS 24.337 version 11.5.0 Release 11)	ETSI TS 124608 V 10.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.608 version 10.1.0 Release 10)
ETSI TS 124390 V 11.3.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS – Stage 3 (3GPP TS 24.390 version 11.3.0 Release 11)	ETSI TS 124608 V 11.3.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.608 version 11.3.0 Release 11)
ETSI TS 124503 V 8.15.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – TISPAN – IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified] (3GPP TS 24.503 version 8.15.0 Release 8)	ETSI TS 124642 V 8.11.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.642 version 8.11.0 Release 8)
ETSI TS 124504 V 8.17.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – TISPAN – PSTN/ISDN simulation services: Communication Diversion (CDIV) – Protocol specification (3GPP TS 24.504 version 8.17.0 Release 8)	
ETSI TS 124508 V 8.2.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) – Protocol specification (3GPP TS 24.508 version 8.2.0 Release 8)	

- ETSI TS 124642 V 9.10.0:2013  
 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.642 version 9.10.0 Release 9)
- ETSI TS 124642 V 10.7.0:2013  
 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.642 version 10.7.0 Release 10)
- ETSI TS 124642 V 11.4.0:2013  
 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Protocol specification (3GPP TS 24.642 version 11.4.0 Release 11)
- ETSI TS 125101 V 9.12.0:2013  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 9.12.0 Release 9)
- ETSI TS 125101 V 10.9.0:2013  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 10.9.0 Release 10)
- ETSI TS 125101 V 11.6.0:2013  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101 version 11.6.0 Release 11)
- ETSI TS 125102 V 11.5.0:2013  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) radio transmission and reception (TDD) (3GPP TS 25.102 version 11.5.0 Release 11)
- ETSI TS 125104 V 11.6.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 11.6.0 Release 11)
- ETSI TS 125105 V 11.4.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105 version 11.4.0 Release 11)
- ETSI TS 125123 V 11.3.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (TDD) (3GPP TS 25.123 version 11.3.0 Release 11)
- ETSI TS 125133 V 8.20.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 8.20.0 Release 8)
- ETSI TS 125133 V 9.16.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 9.16.0 Release 9)
- ETSI TS 125133 V 10.10.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 10.10.0 Release 10)
- ETSI TS 125133 V 11.5.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Requirements for support of radio resource management (FDD) (3GPP TS 25.133 version 11.5.0 Release 11)
- ETSI TS 125141 V 10.9.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 10.9.0 Release 10)
- ETSI TS 125141 V 11.5.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 11.5.0 Release 11)
- ETSI TS 125142 V 11.3.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Base Station (BS) conformance testing (TDD) (3GPP TS 25.142 version 11.3.0 Release 11)
- ETSI TS 125302 V 11.4.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Services provided by the physical layer (3GPP TS 25.302 version 11.4.0 Release 11)
- ETSI TS 125304 V 11.3.0:2013  
 Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode (3GPP TS 25.304 version 11.3.0 Release 11)
- ETSI TS 125306 V 11.6.0:2013  
 Universal Mobile Telecommunications System (UMTS) – UE Radio Access capabilities (3GPP TS 25.306 version 11.6.0 Release 11)
- ETSI TS 125308 V 11.5.0:2013  
 Universal Mobile Telecommunications System (UMTS) – High Speed Downlink Packet Access (HSDPA) – Overall description – Stage 2 (3GPP TS 25.308 version 11.5.0 Release 11)
- ETSI TS 125321 V 11.4.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Medium Access Control (MAC) protocol specification (3GPP TS 25.321 version 11.4.0 Release 11)
- ETSI TS 125331 V 8.23.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 8.23.0 Release 8)
- ETSI TS 125331 V 9.15.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 9.15.0 Release 9)
- ETSI TS 125331 V 10.12.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 10.12.0 Release 10)
- ETSI TS 125331 V 11.6.0:2013  
 Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 11.6.0 Release 11)
- ETSI TS 125413 V 9.10.0:2013  
 Universal Mobile Telecommunications System (UMTS) – UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling (3GPP TS 25.413 version 9.10.0 Release 9)

ETSI TS 125413 V 10.10.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling (3GPP TS 25.413 version 10.10.0 Release 10)	ETSI TS 126237 V 10.7.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) based Packet Switch Streaming (PSS) and Multimedia Broadcast/Multicast Service (MBMS) User Service – Protocols (3GPP TS 26.237 version 10.7.0 Release 10)
ETSI TS 125413 V 11.4.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling (3GPP TS 25.413 version 11.4.0 Release 11)	ETSI TS 126237 V 11.1.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) based Packet Switch Streaming (PSS) and Multimedia Broadcast/Multicast Service (MBMS) User Service – Protocols (3GPP TS 26.237 version 11.1.0 Release 11)
ETSI TS 125425 V 11.3.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN Iur interface user plane protocols for Common Transport Channel data streams (3GPP TS 25.425 version 11.3.0 Release 11)	ETSI TS 126247 V 10.4.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 10.4.0 Release 10)
ETSI TS 125433 V 11.5.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN Iub interface Node B Application Part (NBAP) signalling (3GPP TS 25.433 version 11.5.0 Release 11)	ETSI TS 126247 V 11.3.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 11.3.0 Release 11)
ETSI TS 125453 V 11.1.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling (3GPP TS 25.453 version 11.1.0 Release 11)	ETSI TS 126346 V 9.11.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 9.11.0 Release 9)
ETSI TS 125467 V 11.3.0:2013	Universal Mobile Telecommunications System (UMTS) – UTRAN architecture for 3G Home Node B (HNB) – Stage 2 (3GPP TS 25.467 version 11.3.0 Release 11)	ETSI TS 126346 V 10.8.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 10.8.0 Release 10)
ETSI TS 126114 V 9.12.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 9.12.0 Release 9)	ETSI TS 126346 V 11.5.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Protocols and codecs (3GPP TS 26.346 version 11.5.0 Release 11)
ETSI TS 126114 V 10.7.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 10.7.0 Release 10)	ETSI TS 127007 V 9.9.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – AT command set for User Equipment (UE) (3GPP TS 27.007 version 9.9.0 Release 9)
ETSI TS 126114 V 11.7.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 11.7.0 Release 11)	ETSI TS 127007 V 10.8.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – AT command set for User Equipment (UE) (3GPP TS 27.007 version 10.8.0 Release 10)
ETSI TS 126132 V 11.3.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 11.3.0 Release 11)	ETSI TS 127007 V 11.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – AT command set for User Equipment (UE) (3GPP TS 27.007 version 11.7.0 Release 11)
ETSI TS 126234 V 9.10.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Protocols and codecs (3GPP TS 26.234 version 9.10.0 Release 9)	ETSI TS 128623 V 11.1.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.623 version 11.1.0 Release 11)
ETSI TS 126234 V 10.5.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Protocols and codecs (3GPP TS 26.234 version 10.5.0 Release 10)	ETSI TS 128628 V 11.2.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.628 version 11.2.0 Release 11)
ETSI TS 126234 V 11.2.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Protocols and codecs (3GPP TS 26.234 version 11.2.0 Release 11)		
ETSI TS 126237 V 9.10.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) based Packet Switch Streaming (PSS) and Multimedia Broadcast/Multicast Service (MBMS) User Service – Protocols (3GPP TS 26.237 version 9.10.0 Release 9)		

- ETSI TS 128629 V 11.1.0:2013  
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.629 version 11.1.0 Release 11)
- ETSI TS 128653 V 11.1.1:2013  
Universal Mobile Telecommunications System (UMTS)  
– Telecommunication management – Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.653 version 11.1.1 Release 11)
- ETSI TS 128658 V 11.2.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Telecommunication management – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.658 version 11.2.0 Release 11)
- ETSI TS 128659 V 11.2.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Telecommunication management – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.659 version 11.2.0 Release 11)
- ETSI TS 128705 V 11.1.0:2013  
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.705 version 11.1.0 Release 11)
- ETSI TS 128751 V 11.0.1:2013  
Universal Mobile Telecommunications System (UMTS)  
– Telecommunication management – Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP) – Requirements (3GPP TS 28.751 version 11.0.1 Release 11)
- ETSI TS 128752 V 11.0.1:2013  
Universal Mobile Telecommunications System (UMTS)  
– Telecommunication management – Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.752 version 11.0.1 Release 11)
- ETSI TS 129002 V 8.20.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 8.20.0 Release 8)
- ETSI TS 129002 V 9.11.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 9.11.0 Release 9)
- ETSI TS 129002 V 10.9.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 10.9.0 Release 10)
- ETSI TS 129002 V 11.7.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 11.7.0 Release 11)
- ETSI TS 129061 V 8.12.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public
- Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)  
(3GPP TS 29.061 version 8.12.0 Release 8)
- ETSI TS 129061 V 9.12.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)  
(3GPP TS 29.061 version 9.12.0 Release 9)
- ETSI TS 129061 V 10.10.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)  
(3GPP TS 29.061 version 10.10.0 Release 10)
- ETSI TS 129061 V 11.5.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)  
(3GPP TS 29.061 version 11.5.0 Release 11)
- ETSI TS 129118 V 10.10.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Mobility Management Entity (MME) – Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 10.10.0 Release 10)
- ETSI TS 129118 V 11.7.0:2013  
Universal Mobile Telecommunications System (UMTS)  
– LTE – Mobility Management Entity (MME) – Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 11.7.0 Release 11)
- ETSI TS 129163 V 7.27.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 7.27.0 Release 7)
- ETSI TS 129163 V 8.22.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 8.22.0 Release 8)
- ETSI TS 129163 V 9.14.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 9.14.0 Release 9)
- ETSI TS 129163 V 10.10.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 10.10.0 Release 10)
- ETSI TS 129163 V 11.7.0:2013  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 11.7.0 Release 11)

ETSI TS 129165 V 10.12.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 10.12.0 Release 10)	ETSI TS 129235 V 9.9.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 9.9.0 Release 9)
ETSI TS 129165 V 11.7.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.7.0 Release 11)	ETSI TS 129235 V 10.2.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 10.2.0 Release 10)
ETSI TS 129212 V 8.19.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 8.19.0 Release 8)	ETSI TS 129235 V 11.2.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 11.2.0 Release 11)
ETSI TS 129212 V 9.14.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 9.14.0 Release 9)	ETSI TS 129292 V 8.8.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 8.8.0 Release 8)
ETSI TS 129212 V 10.11.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 10.11.0 Release 10)	ETSI TS 129292 V 9.4.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 9.4.0 Release 9)
ETSI TS 129212 V 11.9.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 10.11.0 Release 10)	ETSI TS 129292 V 10.6.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 10.6.0 Release 10)
ETSI TS 129213 V 11.7.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 11.7.0 Release 11)	ETSI TS 129292 V 11.6.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 11.6.0 Release 11)
ETSI TS 129214 V 8.16.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 8.16.0 Release 8)	ETSI TS 129311 V 8.3.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Service Level Interworking (SLI) for messaging services (3GPP TS 29.311 version 8.3.0 Release 8)
ETSI TS 129214 V 9.13.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 9.13.0 Release 9)	ETSI TS 129311 V 9.2.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Service Level Interworking (SLI) for messaging services (3GPP TS 29.311 version 9.2.0 Release 9)
ETSI TS 129214 V 10.10.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 10.10.0 Release 10)	ETSI TS 129311 V 10.5.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Service Level Interworking (SLI) for messaging services (3GPP TS 29.311 version 10.5.0 Release 10)
ETSI TS 129214 V 11.9.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 11.9.0 Release 11)	ETSI TS 129311 V 11.1.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Service Level Interworking (SLI) for messaging services (3GPP TS 29.311 version 11.1.0 Release 11)
ETSI TS 129215 V 11.9.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) over S9 reference point – Stage 3 (3GPP TS 29.215 version 11.9.0 Release 11)	ETSI TS 129368 V 11.3.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 version 11.3.0 Release 11)
ETSI TS 129219 V 11.5.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control: Spending limit reporting over Sy reference point (3GPP TS 29.219 version 11.5.0 Release 11)	ETSI TS 131102 V 8.17.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 8.17.0 Release 8)
ETSI TS 129235 V 8.7.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 8.7.0 Release 8)	

ETSI TS 131102 V 9.13.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 9.13.0 Release 9)	ETSI TS 132101 V 7.5.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Principles and high level requirements (3GPP TS 32.101 version 7.5.0 Release 7)
ETSI TS 131102 V 10.9.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 10.9.0 Release 10)	ETSI TS 132101 V 8.6.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Principles and high level requirements (3GPP TS 32.101 version 8.6.0 Release 8)
ETSI TS 131102 V 11.5.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 11.5.0 Release 11)	ETSI TS 132101 V 9.2.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Principles and high level requirements (3GPP TS 32.101 version 9.2.0 Release 9)
ETSI TS 131111 V 10.10.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111 version 10.10.0 Release 10)	ETSI TS 132101 V 10.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Principles and high level requirements (3GPP TS 32.101 version 10.1.0 Release 10)
ETSI TS 131111 V 11.6.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) (3GPP TS 31.111 version 11.6.0 Release 11)	ETSI TS 132102 V 11.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Architecture (3GPP TS 32.102 version 11.1.0 Release 11)
ETSI TS 131116 V 9.4.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Remote APDU Structure for (U)SIM Toolkit applications (3GPP TS 31.116 version 9.4.0 Release 9)	ETSI TS 132140 V 11.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscription Management (SUM) requirements (3GPP TS 32.140 version 11.1.0 Release 11)
ETSI TS 131116 V 10.4.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Remote APDU Structure for (U)SIM Toolkit applications (3GPP TS 31.116 version 10.4.0 Release 10)	ETSI TS 132141 V 11.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscription Management (SUM) architecture (3GPP TS 32.141 version 11.1.0 Release 11)
ETSI TS 131116 V 11.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Remote APDU Structure for (U)SIM Toolkit applications (3GPP TS 31.116 version 11.1.0 Release 11)	ETSI TS 132156 V 11.1.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Fixed Mobile Convergence (FMC) model repertoire (3GPP TS 32.156 version 11.1.0 Release 11)
ETSI TS 131121 V 11.2.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – UICC-terminal interface – Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121 version 11.2.0 Release 11)	ETSI TS 132157 V 11.1.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Integration Reference Point (IRP) Information Service (IS) template (3GPP TS 32.157 version 11.1.0 Release 11)
ETSI TS 131122 V 11.1.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Universal Subscriber Identity Module (USIM) conformance test specification (3GPP TS 31.122 version 11.1.0 Release 11)	ETSI TS 132251 V 10.10.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 10.10.0 Release 10)
ETSI TS 131124 V 11.3.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Mobile Equipment (ME) conformance test specification – Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124 version 11.3.0 Release 11)	ETSI TS 132251 V 11.7.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Packet Switched (PS) domain charging (3GPP TS 32.251 version 11.7.0 Release 11)
ETSI TS 131213 V 11.1.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Test specification for (U)SIM – Application Programming Interface (API) for Java Card™ (3GPP TS 31.213 version 11.1.0 Release 11)	ETSI TS 132252 V 11.1.0:2013 Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Wireless Local Area Network (WLAN) charging (3GPP TS 32.252 version 11.1.0 Release 11)

ETSI TS 132260 V 11.8.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – IP Multimedia Subsystem (IMS) charging (3GPP TS 32.260 version 11.8.0 Release 11)	ETSI TS 132421 V 9.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace concepts and requirements (3GPP TS 32.421 version 9.2.0 Release 9)
ETSI TS 132298 V 11.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 11.7.0 Release 11)	ETSI TS 132421 V 10.6.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace concepts and requirements (3GPP TS 32.421 version 10.6.0 Release 10)
ETSI TS 132299 V 8.20.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 8.20.0 Release 8)	ETSI TS 132422 V 7.3.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace control and configuration management (3GPP TS 32.422 version 7.3.0 Release 7)
ETSI TS 132299 V 9.15.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 9.15.0 Release 9)	ETSI TS 132422 V 8.9.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace control and configuration management (3GPP TS 32.422 version 8.9.0 Release 8)
ETSI TS 132299 V 10.10.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 10.10.0 Release 10)	ETSI TS 132422 V 9.6.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace control and configuration management (3GPP TS 32.422 version 9.6.0 Release 9)
ETSI TS 132299 V 11.8.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 11.8.0 Release 11)	ETSI TS 132422 V 10.12.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace control and configuration management (3GPP TS 32.422 version 10.12.0 Release 10)
ETSI TS 132300 V 11.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Name convention for Managed Objects (3GPP TS 32.300 version 11.2.0 Release 11)	ETSI TS 132423 V 9.6.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace data definition and management (3GPP TS 32.423 version 9.6.0 Release 9)
ETSI TS 132416 V 10.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Performance Management (PM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.416 version 10.2.0 Release 10)	ETSI TS 132423 V 10.6.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace data definition and management (3GPP TS 32.423 version 10.6.0 Release 10)
ETSI TS 132416 V 11.1.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Performance Management (PM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.416 version 11.1.0 Release 11)	ETSI TS 132423 V 11.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace data definition and management (3GPP TS 32.423 version 11.5.0 Release 11)
ETSI TS 132421 V 7.3.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace concepts and requirements (3GPP TS 32.421 version 7.3.0 Release 7)	ETSI TS 132426 V 9.5.0:2013	LTE – Telecommunication management – Performance Management (PM) – Performance measurements Evolved Packet Core (EPC) network (3GPP TS 32.426 version 9.5.0 Release 9)
ETSI TS 132421 V 8.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Subscriber and equipment trace – Trace concepts and requirements (3GPP TS 32.421 version 8.7.0 Release 8)		

ETSI TS 132426 V 10.5.0:2013	LTE – Telecommunication management – Performance Management (PM) – Performance measurements Evolved Packet Core (EPC) network (3GPP TS 32.426 version 10.5.0 Release 10)	ETSI TS 132762 V 10.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.762 version 10.7.0 Release 10)
ETSI TS 132426 V 11.4.0:2013	LTE – Telecommunication management – Performance Management (PM) – Performance measurements Evolved Packet Core (EPC) network (3GPP TS 32.426 version 11.4.0 Release 11)	ETSI TS 132766 V 11.5.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 32.766 version 11.5.0 Release 11)
ETSI TS 132441 V 7.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Requirements (3GPP TS 32.441 version 7.2.0 Release 7)	ETSI TS 133102 V 11.5.1:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – 3G security – Security architecture (3GPP TS 33.102 version 11.5.1 Release 11)
ETSI TS 132441 V 8.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Requirements (3GPP TS 32.441 version 8.2.0 Release 8)	ETSI TS 133220 V 11.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Generic Authentication Architecture (GAA) – Generic Bootstrapping Architecture (GBA) (3GPP TS 33.220 version 11.5.0 Release 11)
ETSI TS 132441 V 9.1.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Requirements (3GPP TS 32.441 version 9.1.0 Release 9)	ETSI TS 133246 V 11.2.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – 3G Security – Security of Multimedia Broadcast/Multicast Service (MBMS) (3GPP TS 33.246 version 11.2.0 Release 11)
ETSI TS 132441 V 10.2.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Trace Management Integration Reference Point (IRP) – Requirements (3GPP TS 32.441 version 10.2.0 Release 10)	ETSI TS 133401 V 10.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 10.5.0 Release 10)
ETSI TS 132522 V 10.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.522 version 10.5.0 Release 10)	ETSI TS 133401 V 11.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP System Architecture Evolution (SAE) – Security architecture (3GPP TS 33.401 version 11.7.0 Release 11)
ETSI TS 132522 V 11.6.1:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 32.522 version 11.6.1 Release 11)	ETSI TS 134229-1 V 10.2.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.229-1 version 10.2.0 Release 10)
ETSI TS 132526 V 11.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) – Policy Network Resource Model (NRM) Integration Reference Point (IRP) –	ETSI TS 136101 V 9.16.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 9.16.0 Release 9)
ETSI TS 132551 V 11.3.1:2013	Universal Mobile Telecommunications System (UMTS) – Telecommunication management – Energy Saving Management (ESM) – Concepts and requirements (3GPP TS 32.551 version 11.3.1 Release 11)	ETSI TS 136101 V 10.11.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 10.11.0 Release 10)
ETSI TS 132622 V 11.1.0:2013	Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Configuration Management (CM) – Generic network resources Integration Reference Point (IRP) –	ETSI TS 136101 V 11.5.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 11.5.0 Release 11)
		ETSI TS 136104 V 10.11.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 10.11.0 Release 10)

ETSI TS 136104 V 11.5.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 11.5.0 Release 11)
ETSI TS 136116 V 11.3.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Relay radio transmission and reception (3GPP TS 36.116 version 11.3.0 Release 11)
ETSI TS 136141 V 10.11.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 10.11.0 Release 10)
ETSI TS 136141 V 11.5.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 11.5.0 Release 11)
ETSI TS 136300 V 10.10.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 10.10.0 Release 10)
ETSI TS 136300 V 11.6.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Overall description – Stage 2 (3GPP TS 36.300 version 11.6.0 Release 11)
ETSI TS 136302 V 11.3.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Services provided by the physical layer (3GPP TS 36.302 version 11.3.0 Release 11)
ETSI TS 136321 V 10.9.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 10.9.0 Release 10)
ETSI TS 136321 V 11.3.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Medium Access Control (MAC) protocol specification (3GPP TS 36.321 version 11.3.0 Release 11)
ETSI TS 136331 V 8.20.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 8.20.0 Release 8)
ETSI TS 136331 V 9.15.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 9.15.0 Release 9)
ETSI TS 136331 V 10.10.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 10.10.0 Release 10)
ETSI TS 136331 V 11.4.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 36.331 version 11.4.0 Release 11)
ETSI TS 136355 V 9.11.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 9.11.0 Release 9)
ETSI TS 136355 V 10.9.0:2013	LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 10.9.0 Release 10)
	ETSI TS 136355 V 11.3.0:2013 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE Positioning Protocol (LPP) (3GPP TS 36.355 version 11.3.0 Release 11)
	ETSI TS 136413 V 11.4.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – S1 Application Protocol (S1AP) (3GPP TS 36.413 version 11.4.0 Release 11)
	ETSI TS 136423 V 10.6.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 10.6.0 Release 10)
	ETSI TS 136423 V 11.5.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – X2 Application Protocol (X2AP) (3GPP TS 36.423 version 11.5.0 Release 11)
	ETSI TS 136443 V 11.3.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – M2 Application Protocol (M2AP) (3GPP TS 36.443 version 11.3.0 Release 11)
	ETSI TS 136444 V 11.6.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – M3 Application Protocol (M3AP) (3GPP TS 36.444 version 11.6.0 Release 11)
	ETSI TS 136455 V 11.3.0:2013 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – LTE Positioning Protocol A (LPPa) (3GPP TS 36.455 version 11.3.0 Release 11)
	ETSI TS 136459 V 11.2.0:2013 LTE – Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – SLm interface Application Protocol (SLmAP) (3GPP TS 36.459 version 11.2.0 Release 11)
	ETSI TS 136521-1 V 10.6.0:2013 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 10.6.0 Release 10)
	ETSI TS 136521-3 V 10.3.1:2013 LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – P art 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 10.3.1 Release 10)
	ETSI TS 137571-2 V 10.3.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 2: Protocol conformance (3GPP TS 37.571-2 version 10.3.0 Release 10)
	ETSI TS 137571-4 V 10.2.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 10.2.0 Release 10)
	ETSI TS 137571-5 V 10.4.0:2013 Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 5: Test scenarios and assistance data (3GPP TS 37.571-5 version 10.4.0 Release 10)

ETSI TR 137901 V 11.7.0:2013	Universal Mobile Telecommunications System (UMTS) – LTE – User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 11.7.0 Release 11)	EN 302961-2 V 1.2.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime Personal Homing Beacon intended for use on the frequency 121,5 MHz for search and rescue purposes only – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI TS 145008 V 11.4.0:2013	Digital cellular telecommunications system (Phase 2+) – Radio subsystem link control (3GPP TS 45.008 version 11.4.0 Release 11)	ETSI TS 102361-1 V 2.3.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 1: DMR Air Interface (AI) protocol
ETSI TS 151010-1 V 10.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 10.5.0 Release 10)	ETSI TS 102361-2 V 2.2.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 2: DMR voice and generic services and facilities
ETSI TS 151010-2 V 10.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (3GPP TS 51.010-2 version 10.5.0 Release 10)	ETSI TS 102361-3 V 1.2.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 3: DMR data protocol
ETSI TS 151010-2 V 11.1.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (3GPP TS 51.010-2 version 11.1.0 Release 11)	ETSI TS 102887-1 V 1.1.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices – Smart Metering Wireless Access Protocol – Part 1: PHY layer
ETSI TS 151010-4 V 4.26.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification (3GPP TS 51.010-4 version 4.26.0 Release 4)	ETSI TR 103108 V 1.1.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – System Reference document (SRdoc) – Broadband Direct-Air-to-Ground Communications System operating in the 5,855 GHz to 5,875 GHz band using 3G technology
ETSI TS 151010-5 V 10.5.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 5: Inter-Radio-Access-Technology (RAT) (GERAN / UTRAN) interaction Abstract Test Suite (ATS) (3GPP TS 51.010-5 version 10.5.0 Release 10)		
ETSI TS 151010-7 V 9.7.0:2013	Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 7: Location Services (LCS) test scenarios and assistance data (3GPP TS 51.010-7 version 9.7.0 Release 9)		
ETSI TS 151021 V 11.3.0:2013	Digital cellular telecommunications system (Phase 2+) – Base Station System (BSS) equipment specification – Radio aspects (3GPP TS 51.021 version 11.3.0 Release 11)		

## 33.070.99 Ostale pokretne službe

### Europska normizacija

ETSI

ETSI TR 101589 V 1.1.1:2013	Broadband Radio Access Networks (BRAN) – Very high capacity density BWA networks – Protocols
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## 33.100.10 Zračenje

### Europska normizacija

ETSI

EN 302961-1 V 1.2.1:2013	Electromagnetic compatibility and Radio spectrum Matters (ERM) – Maritime Personal Homing Beacon intended for use on the frequency 121,5 MHz for search and rescue purposes only – Part 1: Technical characteristics and methods of measurement
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## 33.120.10 Koaksijalni kabeli. Valovodi

### Europska normizacija

CENELEC

EN 50117-4-1:2008/A1:2013	Coaxial cables – Part 4-1: Sectional specification for cables for BCT cabling in accordance with EN 50173 – Indoor drop cables for systems operating at 5 MHz – 3000 MHz
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## 33.120.30 RF konektori

### Međunarodna normizacija

IEC

IEC 61169-1:2013	Radio frequency connectors – Part 1: Generic specification – General requirements and measuring methods
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## 33.120.40 Antene

### Europska normizacija

ETSI

EN 302217-1 V 2.1.1:2013	Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 1: Overview and system-independent common characteristics
EN 302217-2-2 V 2.1.1:2013	Fixed Radio Systems – Characteristics and requirements for point-to-point equipment and antennas – Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

### **33.160.01 Audiosustavi, videosustavi i audiovizualni sustavi općenito**

#### **Međunarodna normizacija**

**IEC**

IEC/TR 62869:2013

Activities and considerations related to Wireless Power Transfer (WPT) for audio, video and multimedia systems and equipment

### **33.160.60 Multimedijijski sustavi i telekonferencijska oprema**

#### **Europska normizacija**

**ETSI**

ETSI TR 102688-9 V 1.1.1:2013

Media Content Distribution (MCD) – MCD framework – Part 9: Content Delivery Infrastructures (CDI)

### **33.170 Televizijski i radijski prijenos**

#### **Europska normizacija**

**ETSI**

ETSI TS 102809 V 1.2.1:2013

Digital Video Broadcasting (DVB) – Signalling and carriage of interactive applications and services in Hybrid broadcast/broadband environments

### **33.180.20 Svjetlovodni vezne naprave**

#### **Europska normizacija**

**CENELEC**

EN 61300-3-50:2013

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-50: Examinations and measurements – Crosstalk for optical spatial switches (IEC 61300-3-50:2013)

EN 61754-27:2013

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 27: Type M12-FO connector family (IEC 61754-27:2013)

#### **Međunarodna normizacija**

**IEC**

IEC 61300-2-28:2013

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-28: Tests – Industrial atmosphere (sulphur dioxide)

IEC 61300-2-44:2013

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-44: Tests – Flexing of the strain relief of fibre optic devices

IEC 61300-3-48:2013

Fibre optic interconnect devices and passive components – Basic test and measurement procedures – Part 3-48: Measurement: Spring compression force of the coupling sleeve for rectangular ferrule multi-fibre connectors

IEC 61754-4:2013

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 4: Type SC connector family

IEC 61754-6:2013

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6: Type MU connector family

### **33.180.99 Ostala svjetlovodna oprema**

#### **Međunarodna normizacija**

**IEC**

IEC/TR 62658:2013

Roadmap of optical circuit boards and their related packaging technologies

### **35.020 Informacijska tehnologija (IT) općenito**

#### **Europska normizacija**

**CEN**

CWA 16655-1:2013

InLOC – Part 1: Information Model for Learning Outcomes and Competences

CWA 16655-2:2013

InLOC – Part 2: Guidelines including the integration of Learning Outcomes and Competences into existing specifications

CWA 16655-3:2013

InLOC – Part 3: Application Profile of Europass Curriculum Vitae and Language Passport for Integrating Learning Outcomes and Competences

#### **Međunarodna normizacija**

**ISO/IEC**

ISO/IEC 20005:2013

Information technology – Sensor networks – Services and interfaces supporting collaborative information processing in intelligent sensor networks

### **35.040 Skupovi znakova i kodiranje informacija**

#### **Europska normizacija**

**CEN**

EN 419211-2:2013

Protection profiles for secure signature creation device – Part 2: Device with key generation

#### **Međunarodna normizacija**

**ISO/IEC**

ISO/IEC 14496-10:2012/Amd 1:2013

Information technology – Coding of audio-visual objects – Part 10: Advanced Video Coding – Amendment 1: Additional profiles and supplemental enhancement information (SEI) messages

ISO/IEC 15444-6:2013

Information technology – JPEG 2000 image coding system – Part 6: Compound image file format

ISO/IEC 15444-14:2013

Information technology – JPEG 2000 image coding system – Part 14: XML representation and reference

ISO/IEC 21000-3:2003/Amd 2:2013

Information technology – Multimedia framework (MPEG-21) – Part 3: Digital Item Identification – Amendment 2: Digital item semantic relationships

ISO/IEC 21000-20:2013  
Information technology – Multimedia framework (MPEG-21) – Part 20: Contract Expression Language

ISO/IEC 21000-21:2013  
Information technology – Multimedia framework (MPEG-21) – Part 21: Media Contract Ontology

ISO/IEC 23001-8:2013  
Information technology – MPEG systems technologies – Part 8: Coding-independent code points

ISO/IEC 23002-5:2013  
Information technology – MPEG video technologies – Part 5: Reconfigurable media coding conformance and reference software

ISO/IEC 23009-4:2013  
Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 4: Segment encryption and authentication

ISO/IEC TR 27019:2013  
Information technology – Security techniques – Information security management guidelines based on ISO/IEC 27002 for process control systems specific to the energy utility industry

## 35.110 Umrežavanje

### Međunarodna normizacija

#### ISO/IEC

ISO/IEC 20005:2013  
Information technology – Sensor networks – Services and interfaces supporting collaborative information processing in intelligent sensor networks

#### IEC

IEC 62439-1 Edition 1.1:2013  
Industrial communication networks – High availability automation networks – Part 1: General concepts and calculation methods

## 35.220.30 Optičke naprave za pohranu podataka

### Međunarodna normizacija

#### ISO/IEC

ISO/IEC 30190:2013  
Information technology – Digitally recorded media for information interchange and storage – 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk

ISO/IEC 30191:2013  
Information technology – Digitally recorded media for information interchange and storage – 120 mm Triple Layer (100,0 Gbytes per disk) and Quadruple Layer (128,0 Gbytes per disk) BD Recordable disk

ISO/IEC 30192:2013  
Information technology – Digitally recorded media for information interchange and storage – 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk

ISO/IEC 30193:2013  
Information technology – Digitally recorded media for information interchange and storage – 120 mm Triple Layer (100,0 Gbytes per disk) BD Rewritable disk

## 35.240.15 Identifikacijske kartice i pripadajuće naprave

### Europska normizacija

#### CEN

EN 419211-2:2013  
Protection profiles for secure signature creation device – Part 2: Device with key generation

#### ETSI

ETSI TS 102223 V 11.2.0:2013  
Smart Cards – Card Application Toolkit (CAT) (Release 11)

ETSI TS 102230 V 10.0.0:2013  
Smart Cards – UICC-Terminal interface – Physical, electrical and logical test specification (Release 10)

ETSI TS 102694-1 V 9.3.0:2013  
Smart Cards – Test specification for the Single Wire Protocol (SWP) interface – Part 1: Terminal features (Release 9)

ETSI TS 102694-2 V 9.4.0:2013  
Smart Cards – Test specification for the Single Wire Protocol (SWP) interface – Part 2: UICC features (Release 9)

ETSI TS 102694-2 V 10.0.0:2013  
Smart Cards – Test specification for the Single Wire Protocol (SWP) interface – Part 2: UICC features (Release 10)

ETSI TS 102695-1 V 9.1.0:2013  
Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 1: Terminal features (Release 9)

ETSI TS 102695-3 V 9.1.0:2013  
Smart Cards – Test specification for the Host Controller Interface (HCI) – Part 3: Host Controller features (Release 9)

ETSI TS 103115 V 9.1.0:2013  
Smart Cards – Test specification for UICC Application Programming Interface for Java Card™ for Contactless Applications – Test Environment and Annexes (Release 9)

## 35.240.60 Primjene IT-a u prijevozu i trgovini

### Europska normizacija

#### CEN

CWA 16667:2013  
Reference Architecture 2.0 for eBusiness harmonisation in Textile/Clothing and Footwear sectors

#### ETSI

EN 302663 V 1.2.1:2013  
Intelligent Transport Systems (ITS) – Access layer specification for Intelligent Transport Systems operating in the 5 GHz frequency band

ETSI TS 103096-1 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for TS 102867 and TS 102941 – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 103096-2 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for TS 102867 and TS 102941 – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103096-3 V 1.1.1:2013  
Intelligent Transport Systems (ITS) – Testing – Conformance test specification for TS 102867 and TS 102941 – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

## **Međunarodna normizacija ISO/IEC**

- ISO/IEC 19510:2013  
Information technology – Object Management Group  
Business Process Model and Notation
- ISO 24102-1:2013  
Intelligent transport systems – Communications access  
for land mobiles (CALM) – ITS station management –  
Part 1: Local management
- ISO 24102-3:2013  
Intelligent transport systems – Communications access  
for land mobiles (CALM) – ITS station management –  
Part 3: Service access points
- ISO 24102-4:2013  
Intelligent transport systems – Communications access  
for land mobiles (CALM) – ITS station management –  
Part 4: Station-internal management communications
- ISO 24102-5:2013  
Intelligent transport systems – Communications access  
for land mobiles (CALM) – ITS station management –  
Part 5: Fast service advertisement protocol (FSAP)

## **35.240.70 Primjene IT-a u znanosti**

### **Europska normizacija**

#### **CEN**

- CEN/TR 15449-4:2013  
Geographic information – Spatial Data Infrastructure  
– Service centric view
- EN ISO 19156:2013  
Geographic information – Observations and  
measurements (ISO 19156:2011)

## **35.240.99 Primjene IT-a u ostalim područjima**

### **Međunarodna normizacija**

#### **ISO/IEC**

- ISO/IEC TR 27019:2013  
Information technology – Security techniques –  
Information security management guidelines based on  
ISO/IEC 27002 for process control systems specific to  
the energy utility industry

#### **IEC**

- IEC 61968-100:2013  
Application integration at electric utilities – System  
interfaces for distribution management – Part 100:  
Implementation Profiles

## **37.060.20 Kinematografski filmovi. Kazete**

### **Međunarodna normizacija ISO**

- ISO 4241:2013  
Cinematography – Theatre projection leader, trailer  
and cue marks – Specifications

## **37.100.01 Grafička tehnologija općenito**

### **Međunarodna normizacija ISO**

- ISO 12647-7:2013  
Graphic technology – Process control for the  
production of half-tone colour separations, proof and  
production prints – Part 7: Proofing processes working  
directly from digital data
- ISO 16759:2013  
Graphic technology – Quantification and communication  
for calculating the carbon footprint of print media  
products

## **43.020 Cestovna vozila općenito**

### **Međunarodna normizacija**

#### **ISO**

- ISO/TR 16250:2013  
Road vehicles – Objective rating metrics for dynamic  
systems

## **43.040.70 Spojke**

### **Međunarodna normizacija**

#### **ISO**

- ISO 18868:2013  
Commercial road vehicles – Coupling equipment  
between vehicles in multiple vehicle combinations –  
Strength requirements

## **43.060.10 Blok motora i unutarnji sastavni dijelovi**

### **Međunarodna normizacija**

#### **ISO**

- ISO 6623:2013  
Internal combustion engines – Piston rings – Scraper  
rings made of cast iron

## **43.180 Oprema za dijagnostiku, održavanje i ispitivanje**

### **Međunarodna normizacija**

#### **ISO**

- ISO/TR 16250:2013  
Road vehicles – Objective rating metrics for dynamic  
systems

## **47.020.01 Opće norme koje se odnose na brodogradnju i pomorske konstrukcije**

### **Međunarodna normizacija ISO**

- ISO 128-15:2013  
Technical product documentation (TPD) – General  
principles of presentation – Part 15: Presentation of  
shipbuilding drawings

## **47.020.70 Oprema za navigaciju i upravljanje**

### **Europska normizacija CENELEC**

EN 61996-1:2013

Maritime navigation and radiocommunication equipment and systems – Shipborne voyage data recorder (VDR) – Part 1: Voyage data recorder (VDR) – Performance requirements, methods of testing and required test results (IEC 61996-1:2013)

## **47.080 Mala plovila**

### **Europska normizacija CEN**

EN ISO 7840:2013

Small craft – Fire-resistant fuel hoses (ISO 7840:2013)

EN ISO 8469:2013

Small craft – Non-fire-resistant fuel hoses (ISO 8469:2013)

### **Međunarodna normizacija ISO**

ISO 7840:2013

Small craft – Fire-resistant fuel hoses

ISO 8469:2013

Small craft – Non-fire-resistant fuel hoses

## **49.025.01 Materijali za zrakoplovne konstrukcije općenito**

### **Europska normizacija CEN**

EN 4262:2013

Aerospace series – Heat resisting alloy FE-PA4901 (X12CrNiCoMoW21-20) – As forged – Forging stock – a or D <= 200 mm – 690 MPa <= Rm <= 880 MPa

EN 4263:2013

Aerospace series – Heat resisting alloy FE-PA4901 (X12CrNiCoMoW21-20) – As forged – Forging stock – a or D <= 200 mm – 690 MPa <= Rm <= 960 MPa

## **49.025.60 Tekstili**

### **Europska normizacija CEN**

EN 4503:2013

Aerospace series – Non-metallic materials – Textiles – Test method – Determination of water soluble chloride and sulfate of aqueous extracts

EN 4505:2013

Aerospace series – Non-metallic materials – Textiles – Test method – Determination of dimensional stability

EN 4507:2013

Aerospace series – Non-metallic materials – Textiles – Test method – Determination of water extractable matter

## **49.060 Zrakoplovna električna oprema i sustavi**

### **Međunarodna normizacija IEC**

IEC 60952-1:2013

Aircraft batteries – Part 1: General test requirements and performance levels

IEC 60952-2:2013

Aircraft batteries – Part 2: Design and construction requirements

IEC 60952-3:2013

Aircraft batteries – Part 3: Product specification and declaration of design and performance (DDP)

## **53.020.20 Dizalice**

### **Europska normizacija CEN**

EN 13001-3-1:2012+A1:2013

Cranes – General Design – Part 3-1: Limit States and proof competence of steel structure

## **53.020.30 Pribor za opremu za dizanje**

### **Međunarodna normizacija ISO**

ISO 16625:2013

Cranes and hoists – Selection of wire ropes, drums and sheaves

## **53.020.99 Ostala oprema za dizanje**

### **Europska normizacija CEN**

EN 280:2013

Mobile elevating work platforms – Design calculations – Stability criteria – Construction – Safety – Examinations and tests

## **53.100 Strojevi za zemljane rade**

### **Europska normizacija CEN**

EN 474-5+A3:2013

Earth-moving machinery – Safety – Part 5: Requirements for hydraulic excavators

## **55.060 Špule. Svitci**

### **Europska normizacija CENELEC**

EN 60286-3:2013

Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes (IEC 60286-3:2013)

### **Međunarodna normizacija IEC**

IEC 60286-4:2013

Packaging of components for automatic handling – Part 4: Stick magazines for electronic components encapsulated in packages of different forms

## **55.180.30 Zrakoplovni kontejneri, palete i mreže**

### **Međunarodna normizacija ISO**

ISO 6517:2013  
Air cargo – Certified lower deck containers – Design and testing

## **55.180.99 Ostale norme koje se odnose na distribuciju robe**

### **Europska normizacija CEN**

EN 12195-1:2010/AC:2013  
Load restraining on road vehicles – Safety – Part 1: Calculation of securing forces

## **59.080.01 Tekstili općenito**

### **Europska normizacija CEN**

EN ISO 20743:2013  
Textiles – Determination of antibacterial activity of textile products (ISO 20743:2013)

### **Međunarodna normizacija ISO**

ISO 20743:2013  
Textiles – Determination of antibacterial activity of textile products

## **59.080.70 Geotekstili**

### **Europska normizacija CEN**

EN 13361:2013  
Geosynthetic barriers – Characteristics required for use in the construction of reservoirs and dams

EN 13362:2013  
Geosynthetic barriers – Characteristics required for use in the construction of canals

EN 13491:2013  
Geosynthetic barriers – Characteristics required for use as a fluid barrier in the construction of tunnels and associated underground structures

EN 13492:2013  
Geosynthetic barriers – Characteristics required for use in the construction of liquid waste disposal sites, transfer stations or secondary containment

EN 13493:2013  
Geosynthetic barriers – Characteristics required for use in the construction of solid waste storage and disposal sites

EN 15382:2013  
Geosynthetic barriers – Characteristics required for use in transportation infrastructure

## **65.040.10 Nastambe, instalacije i oprema za stoku**

### **Europska normizacija CEN**

EN 13732:2013  
Food processing machinery – Bulk milk coolers on farms – Requirements for performance, safety and hygiene

## **65.160 Duhan, duhanski proizvodi i odgovarajuća oprema**

### **Međunarodna normizacija ISO**

ISO 8243:2013  
Cigarettes – Sampling

## **67.200.10 Životinjske i biljne masti i ulja**

### **Europska normizacija CEN**

EN ISO 3657:2013  
Animal and vegetable fats and oils – Determination of saponification value (ISO 3657:2013)

EN ISO 3961:2013  
Animal and vegetable fats and oils – Determination of iodine value (ISO 3961:2013)

### **Međunarodna normizacija ISO**

ISO 3657:2013  
Animal and vegetable fats and oils – Determination of saponification value

ISO 3961:2013  
Animal and vegetable fats and oils – Determination of iodine value

## **67.200.20 Uljarice**

### **Europska normizacija CEN**

EN ISO 9167-1:1995/A1:2013  
Rapeseed – Determination of glucosinolates content – Part 1: Method using high-performance liquid chromatography – Amendment 1 (ISO 9167-1:1992/Amd 1:2013)

### **Međunarodna normizacija ISO**

ISO 9167-1:1992/Amd 1:2013  
Rapeseed – Determination of glucosinolates content – Part 1: Method using high-performance liquid chromatography; Amendment 1

## **67.260 Postrojenja i oprema za prehrambenu industriju**

### **Europska normizacija CEN**

EN 13732:2013  
Food processing machinery – Bulk milk coolers on farms – Requirements for performance, safety and hygiene

## **71.100.70 Kozmetika. Toaletne potrepštine**

### **Europska normizacija**

**CEN**

EN 16344:2013

Cosmetics – Analysis of cosmetic products – Screening for UV-filters in cosmetic products and quantitative determination of 10 UV-filters by HPLC

## **73.040 Ugljen**

### **Međunarodna normizacija**

**ISO**

ISO 1170:2013

Coal and coke – Calculation of analyses to different bases

ISO 11722:2013

Solid mineral fuels – Hard coal – Determination of moisture in the general analysis test sample by drying in nitrogen

ISO 17247:2013

Coal – Ultimate analysis

## **75.160.10 Kruta goriva**

### **Međunarodna normizacija**

**ISO**

ISO 1170:2013

Coal and coke – Calculation of analyses to different bases

## **75.180.10 Oprema za iskoriščavanje i vađenje**

### **Europska normizacija**

**CEN**

EN ISO 14998:2013

Petroleum and natural gas industries – Downhole equipment – Completion accessories (ISO 14998:2013)

### **Međunarodna normizacija**

**ISO**

ISO 14998:2013

Petroleum and natural gas industries – Downhole equipment – Completion accessories

## **77.040.10 Mehaničko ispitivanje metala**

### **Međunarodna normizacija**

**ISO**

ISO 12110-1:2013

Metallic materials – Fatigue testing – Variable amplitude fatigue testing – Part 1: General principles, test method and reporting requirements

ISO 12110-2:2013

Metallic materials – Fatigue testing – Variable amplitude fatigue testing – Part 2: Cycle counting and related data reduction methods

## **77.040.99 Ostale metode za ispitivanje metala**

### **Europska normizacija**

**CEN**

EN ISO 3326:2013

Hardmetals – Determination of (the magnetization) coercivity (ISO 3326:2013)

### **Međunarodna normizacija**

**ISO**

ISO 3326:2013

Hardmetals – Determination of (the magnetization) coercivity

## **77.160 Metalurgija praha**

### **Europska normizacija**

**CEN**

EN ISO 3326:2013

Hardmetals – Determination of (the magnetization) coercivity (ISO 3326:2013)

### **Međunarodna normizacija**

**ISO**

ISO 3326:2013

Hardmetals – Determination of (the magnetization) coercivity

## **81.040.20 Staklo u graditeljstvu**

### **Europska normizacija**

**CEN**

EN 15682-1:2013

Glass in building – Heat soaked thermally toughened alkaline earth silicate safety glass – Part 1: Definition and description

EN 15682-2:2013

Glass in building – Heat soaked thermally toughened alkaline earth silicate safety glass – Part 2: Evaluation of conformity/Product standard

EN 15683-1:2013

Glass in building – Thermally toughened soda lime silicate channel shaped safety glass – Part 1: Definition and description

## **83.060 Guma**

### **Međunarodna normizacija**

**ISO**

ISO 18899:2013

Rubber – Guide to the calibration of test equipment

## **83.160.20 Gume za zrakoplove**

### **Međunarodna normizacija**

**ISO**

ISO 3324-1:2013

Aircraft tyres and rims – Part 1: Specifications

ISO 3324-2:2013

Aircraft tyres and rims – Part 2: Test methods for tyres

## **85.060 Papir i karton**

### **Europska normizacija**

**CEN**

EN ISO 217:2013

Paper – Untrimmed sizes – Designation and tolerances for primary and supplementary ranges, and indication of machine direction (ISO 217:2013)

### **Međunarodna normizacija**

**ISO**

ISO 217:2013

Paper – Untrimmed sizes – Designation and tolerances for primary and supplementary ranges, and indication of machine direction

## **85.080.10 Uredski papir**

### **Međunarodna normizacija**

**ISO**

ISO 217:2013

Paper – Untrimmed sizes – Designation and tolerances for primary and supplementary ranges, and indication of machine direction

## **87.040 Boje i lakovi**

### **Europska normizacija**

**CEN**

EN ISO 9038:2013

Determination of sustained combustibility of liquids (ISO 9038:2013)

### **Međunarodna normizacija**

**ISO**

ISO 9038:2013

Determination of sustained combustibility of liquids

## **91.100.15 Mineralni materijali i proizvodi**

### **Europska normizacija**

**CEN**

EN 1097-11:2013

Tests for mechanical and physical properties of aggregates – Part 11: Determination of compressibility and confined compressive strength of lightweight aggregates

## **91.100.23 Keramičke pločice**

### **Europska normizacija**

**CEN**

EN ISO 10545-9:2013

Ceramic tiles – Part 9: Determination of resistance to thermal shock (ISO 10545-9:2013)

### **Međunarodna normizacija**

**ISO**

ISO 10545-9:2013

Ceramic tiles – Part 9: Determination of resistance to thermal shock

## **91.100.30 Beton i betonski proizvodi**

### **Europska normizacija**

**CEN**

EN 12602+A1:2013

Prefabricated reinforced components of autoclaved aerated concrete

## **91.100.50 Veziva. Materijali za brtvljenje**

### **Europska normizacija**

**CEN**

EN 13361:2013

Geosynthetic barriers – Characteristics required for use in the construction of reservoirs and dams

EN 13362:2013

Geosynthetic barriers – Characteristics required for use in the construction of canals

EN 13491:2013

Geosynthetic barriers – Characteristics required for use as a fluid barrier in the construction of tunnels and associated underground structures

EN 13492:2013

Geosynthetic barriers – Characteristics required for use in the construction of liquid waste disposal sites, transfer stations or secondary containment

EN 13493:2013

Geosynthetic barriers – Characteristics required for use in the construction of solid waste storage and disposal sites

## **91.100.60 Materijali za toplinsku i zvučnu izolaciju**

### **Europska normizacija**

**CEN**

EN 14063-2:2013

Thermal insulation products for buildings – In-situ formed expanded clay lightweight aggregate products – Part 2: Specification for the installed products

## **91.140.30 Sustavi prozračivanja i klimatizacije**

### **Europska normizacija**

**CEN**

EN 12102:2013

Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling – Measurement of airborne noise – Determination of the sound power level

EN 14511-3:2013

Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 3: Test methods

EN 15218:2013

Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling – Terms, definitions, test conditions, test methods and requirements

## **91.160.01 Rasvjeta općenito**

**Međunarodna normizacija  
IEC**

IEC/TR 62493-1:2013

Assessment of Lighting Equipment Related to Human Exposure to Electromagnetic Fields Results of the EMF Measurement Campaign from the VDE Test and Certification Institute and the ZVEI, the German Electrical and Electronic Manufacturers' Association

## **91.160.10 Unutrašnja rasvjeta**

**Europska normizacija  
CEN**

EN 1838:2013

Lighting applications – Emergency lighting

## **93.080.20 Materijali za gradnju cesta**

**Europska normizacija  
CEN**

EN 15382:2013

Geosynthetic barriers – Characteristics required for use in transportation infrastructure

## **97.140 Namještaj**

**Europska normizacija  
CEN**

EN 1728:2012/AC:2013

Furniture – Seating – Test methods for the determination of strength and durability

EN 16139:2013/AC:2013

Furniture – Strength, durability and safety – Requirements for non-domestic seating

## **97.220.30 Oprema za sportske dvorane**

**Europska normizacija  
CEN**

EN 12503-4:2013

Sports mats – Part 4: Determination of shock absorption