

# Hrvatski zavod za norme

## Oglasnik za normativne dokumente

4/2012 kolovoz, 2012.

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

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

Izdavač:



HZN

**Hrvatski zavod za norme**  
Croatian Standards Institute

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4.1	Cjenik hrvatskih norma	
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# Rezultati hrvatske normizacije

## 1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 163/03) hrvatske norme priprema, izdaje i objavljuje Hrvatski zavod za norme, na prijedlog tehničkih odbora.

Hrvatske norme mogu nastati na ova četiri načina:

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

Oznaka načina prihvaćanja navedena je uz referencijsku oznaku hrvatske norme.

Hrvatske su norme zainteresiranima na raspolaganju u Normoteci

Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

### HZN/TO 8, *Brodogradnja*

HRN EN 1570-1:2012 en pr  
Sigurnosni zahtjevi za podizne platforme – 1. dio: Podizne platforme za opsluživanje do dvije fiksne površine (EN 1570-1:2011)  
Safety requirements for lifting tables – Part 1: Lifting tables serving up to two fixed landings (EN 1570-1:2011)

HRN EN ISO 6185-4:2012 en pr  
Brodice na napuhavanje – 4. dio: Brodice duljine trupa između 8 m i 24 m sa snagom motora od 15 kW i više (ISO 6185-4:2011; EN ISO 6185-4:2011)  
Inflatable boats – Part 4: Boats with a hull length of between 8 m and 24 m with a motor power rating of 15 kW and greater (ISO 6185-4:2011; EN ISO 6185-4:2011)

HRN EN ISO 11591:2012 en pr  
Motorna mala plovila – Preglednost s mjesta upravljanja (ISO 11591:2011; EN ISO 11591:2011)  
Small craft, engine-driven – Field of vision from helm position (ISO 11591:2011; EN ISO 11591:2011)

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

HRN EN 54-25:2008/Ispr.1:2012 en pr  
Sustavi za otkrivanje i dojavu požara – 25. dio: Dijelovi koje upotrebljavaju radio veze (EN 54-25:2008/AC:2012)  
Fire detection and fire alarm systems – Part 25: Components using radio links (EN 54-25:2008/AC:2012)

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

HRN EN 589:2012 hr pp/na  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja (EN 589:2008+A1:2012)  
Automotive fuels – LPG – Requirements and test methods (EN 589:2008+A1:2012)

HRN ISO 1998-1:2012 hr pp  
Naftna industrija – Nazivlje – 1. dio: Sirovine i proizvodi (ISO 1998-1:1998+Cor 1:1999)  
Petroleum industry – Terminology – Part 1: Raw materials and products (ISO 1998-1:1998+Cor 1:1999)

HRN EN ISO 4404-1:2012 en pr  
Nafta i srodni proizvodi – Određivanje otpornosti na koroziju vatrootpornih hidrauličkih tekućina – 1. dio: Tekućine koje sadržavaju vodu (ISO 4404-1:2012; EN ISO 4404-1:2012)  
Petroleum and related products – Determination of the corrosion resistance of fire-resistant hydraulic fluids – Part 1: Water-containing fluids (ISO 4404-1:2012; EN ISO 4404-1:2012)

HRN EN 14214:2012 en pr  
Tekući naftni proizvodi – Metilni esteri masnih kiselina (FAME) za dizelske motore i grijanje – Zahtjevi i metode ispitivanja (EN 14214:2012)  
Liquid petroleum products – Fatty acid methyl esters (FAME) for use in diesel engines and heating applications – Requirements and test methods (EN 14214:2012)

HRI CEN/TR 16389:2012 en pr  
Goriva za motorna vozila – Parafinska dizelska goriva i mješavine – Propisani parametri, granične vrijednosti i metode određivanja (CEN/TR 16389:2012)  
Automotive fuels – Paraffinic diesel fuel and blends – Background to the parameters required and their respective limits and determination (CEN/TR 16389:2012)

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

HRN EN ISO 15614-1:2007/A2:2012 en pr  
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 15614-1:2004/Amd 2:2012; EN ISO 15614-1:2004/A2:2012)  
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 15614-1:2004/Amd 2:2012; EN ISO 15614-1:2004/A2:2012)

### HZN/TO 71, *Beton*

HRN EN 934-3:2012 en pr  
Dodaci betonu, mortu i smjesi za injektiranje – 3. dio: Dodaci mortu za zidanje – Definicije, zahtjevi, sukladnost, označavanje i obilježavanje (EN 934-3:2009+A1:2012)  
Admixtures for concrete, mortar and grout – Part 3: Admixtures for masonry mortar – Definitions, requirements, conformity and marking and labelling (EN 934-3:2009+A1:2012)

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

HRN EN 14511-1:2012 en pr  
Klimatizacijski uređaji, rashladnici kapljevine 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)

HRN EN 14511-2:2012 en pr  
Klimatizacijski uređaji, rashladnici kapljevine i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 2. dio: Uvjeti ispitivanja (EN 14511-2:2011)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions (EN 14511-2:2011)

HRN EN 14511-3:2012 en pr  
Klimatizacijski uređaji, rashladnici kapljevine i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 3. dio: Metode ispitivanja (EN 14511-3:2011)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 3: Test methods (EN 14511-3:2011)

HRN EN 14511-4:2012 en pr  
Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 4. dio: Zahtjevi (EN 14511-4:2011)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Requirements (EN 14511-4:2011)

### **HZN/TO 92, Zaštita od požara**

HRN EN 1363-1:2012 en pr  
Ispitivanja otpornosti na požar – 1. dio: Opći zahtjevi (EN 1363-1:2012)  
Fire resistance tests – Part 1: General Requirements (EN 1363-1:2012)

HRN EN 13381-6:2012 en pr  
Ispitne metode za određivanje doprinosa otpornosti na požar konstrukcijskih elemenata – 6. dio: Zaštita primjenjena na šupljim čeličnim stupovima ispunjenim betonom (EN 13381-6:2012)  
Test methods for determining the contribution to the fire resistance of structural members – Part 6: Applied protection to concrete filled hollow steel columns (EN 13381-6:2012)

HRN EN 15269-3:2012 en pr  
Proširena primjena rezultata ispitivanja otpornosti na požar i/ili dimopropusnosti vrata, zaslona i prozora koji se mogu otvarati, uključujući pripadajući okov – 3. dio: Otpornost na požar zaokretnih drvenih vrata i prozora s drvenim okvirima koji se mogu otvarati (EN 15269-3:2012)  
Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows (EN 15269-3:2012)

### **HZN/TO 120, Koža i obuća**

HRS CEN ISO/TS 16179:2012 en pr  
Obuća – Kritične tvari potencijalno prisutne u obući i dijelovima obuće – Određivanje organokositrenih spojeva u materijalima za obuću (ISO/TS 16179:2012; CEN ISO/TS 16179:2012)  
Footwear – Critical substances potentially present in footwear and footwear components – Determination of organotin compounds in footwear materials (ISO/TS 16179:2012; CEN ISO/TS 16179:2012)

HRS CEN ISO/TS 16186:2012 en pr  
Obuća – Kritične tvari potencijalno prisutne u obući i dijelovima obuće – Kvantitativna metoda određivanja dimetil-fumarata (DMFU) u materijalima za obuću (ISO/TS 16186:2012; CEN ISO/TS 16186:2012)  
Footwear – Critical substances potentially present in footwear and footwear components – Test method to quantitatively determine dimethyl fumarate (DMFU) in footwear materials (ISO/TS 16186:2012; CEN ISO/TS 16186:2012)

HRN EN ISO 17131:2012 en pr  
Koža – Identifikacija kože s pomoću mikroskopije (ISO 17131:2012; EN ISO 17131:2012)  
Leather – Identification of leather with microscopy (ISO 17131:2012; EN ISO 17131:2012)

HRN EN ISO 26082-2:2012 en pr  
Koža – Fizikalne i mehaničke metode ispitivanja za određivanje zaprljanosti – 2. dio: Metoda prevrtanja (ISO 26082-2:2012; EN ISO 26082-2:2012)  
Leather – Physical and mechanical test methods for the determination of soiling – Part 2: Tumbling method (ISO 26082-2:2012; EN ISO 26082-2:2012)

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

HRN EN ISO 15001:2012 en pr  
Anestetička i respiracijska oprema – Kompatibilnost s kisikom (ISO 15001:2010; EN ISO 15001:2011)  
Anaesthetic and respiratory equipment – Compatibility with oxygen (ISO 15001:2010; EN ISO 15001:2011)

### **HZN/TO 136, Namještaj**

HRN EN 747-1:2012 en pr  
Namještaj – Kreveti na kat i povišeni kreveti – 1. dio: Zahtjevi za sigurnost, čvrstoću i izdržljivost (EN 747-1:2012)  
Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements (EN 747-1:2012)

HRN EN 747-2:2012 en pr  
Namještaj – Kreveti na kat i povišeni kreveti – 2. dio: Metode ispitivanja (EN 747-2:2012)  
Furniture – Bunk beds and high beds – Part 2: Test methods (EN 747-2:2012)

HRN EN 1728:2012 en pr  
Namještaj – Namještaj za sjedenje – Metode ispitivanja za određivanje čvrstoće i trajnosti (EN 1728:2012)  
Furniture – Seating – Test methods for the determination of strength and durability (EN 1728:2012)

HRN EN 13759:2012 en pr  
Namještaj – Operativni mehanizmi za sjedala i naslonjače na razvlačenje – Metode ispitivanja (EN 13759:2012)  
Furniture – Operating mechanisms for seating and sofa-beds – Test methods (EN 13759:2012)

HRN EN 14988-1:2012 en pr  
Dječje visoke stolice – 1. dio: Sigurnosni zahtjevi (EN 14988-1:2006+A1:2012)  
Children's high chairs – Part 1: Safety requirements (EN 14988-1:2006+A1:2012)

HRN EN 14988-2:2012 en pr  
Dječje visoke stolice – 2. dio: Metode ispitivanja (EN 14988-2:2006+A1:2012)  
Children's high chairs – Part 2: Test methods (EN 14988-2:2006+A1:2012)

HRN EN 15186:2012 en pr  
Namještaj – Procjena otpornosti površine na ogrebotine (EN 15186:2012)  
Furniture – Assessment of the surface resistance to scratching (EN 15186:2012)

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

HRS CEN/TS 1329-2:2012 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1329-2:2012)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Guidance for the assessment of conformity (CEN/TS 1329-2:2012)

HRS CEN/TS 1401-2:2012 en pr  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1401-2:2012)  
Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Guidance for assessment of conformity (CEN/TS 1401-2:2012)

HRS CEN/TS 1455-2:2012 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niska i visoka temperatura) unutar građevinskih konstrukcija – Akrlonitril/butadien/stiren (ABS) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1455-2:2012)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS) – Part 2: Guidance for the assessment of conformity (CEN/TS 1455-2:2012)

HRS CEN/TS 1565-2:2012 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Mješavine kopolimera stirena (SAN+PVC) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1565-2:2012)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Styrene-copolymer blends (SAN+PVC) – Part 2: Guidance for the assessment of conformity (CEN/TS 1565-2:2012)

HRS CEN/TS 1566-2:2012 en pr  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Klorirani poli(vinil-klorid) (PVC-C) – 2. dio: Upute za ocjenu sukladnosti (CEN/TS 1566-2:2012)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly(vinyl chloride) (PVC-C) – Part 2: Guidance for assessment of conformity (CEN/TS 1566-2:2012)

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

HRN EN ISO 10870:2012 en pr  
Kvaliteta vode – Smjernice za odabir metoda i naprava za uzorkovanje bentoskih slatkovodnih makrobekralježnjaka (ISO 10870:2012; EN ISO 10870:2012)  
Water quality – Guidelines for the selection of sampling methods and devices for benthic macroinvertebrates in fresh waters (ISO 10870:2012; EN ISO 10870:2012)

HRN EN ISO 14403-1:2012 en pr  
Water quality – Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) – Part 1: Method with flow injection analysis (FIA) (ISO 14403-1:2012; EN ISO 14403-1:2012)

HRN EN ISO 14403-2:2012 en pr  
Water quality – Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) – Part 2: Method using continuous flow analysis (CFA) (ISO 14403-2:2012; EN ISO 14403-2:2012)

HRN EN 16161:2012 en pr  
Kvaliteta vode – Smjernice za primjenu in vivo apsorpcijskih tehnika za procjenu koncentracije klorofila-a u uzorcima morske i slatke vode (EN 16161:2012)  
Water quality – Guidance on the use of in vivo absorption techniques for the estimation of chlorophyll-a concentration in marine and fresh water samples (EN 16161:2012)

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

HRN EN ISO 10077-2:2012 en pr  
Toplinske značajke prozora, vrata i zaslona – Proračun koeficijenta prolaska topline – 2. dio: Numerička metoda za okvire (ISO 10077-2:2012; EN ISO 10077-2:2012)  
Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames (ISO 10077-2:2012; EN ISO 10077-2:2012)

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

HRN EN 408:2012 en pr  
Drvene konstrukcije – Konstrukcijsko drvo i lijepljeno lamelirano drvo – Određivanje fizikalnih i mehaničkih svojstava (EN 408:2010+A1:2012)  
Timber structures – Structural timber and glued laminated timber – Determination of some physical and mechanical properties (EN 408:2010+A1:2012)

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

HRS CEN/TS 81-76:2012 en pr  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Posebna primjena za osobna dizala i osobna teretna dizala – 76. dio: Evakuacija osoba s invalidnošću i sa smanjenom pokretljivošću s pomoću dizala (CEN/TS 81-76:2011)  
Safety rules for the construction and installation of lifts – Particular applications for passengers and goods passenger lifts – Part 76: Evacuation of disabled persons using lifts (CEN/TS 81-76:2011)

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

HRN EN 846-5:2012 en pr  
Metode ispitivanja pomoćnih dijelova zida – 5. dio: Određivanje vlačne i tlačne nosivosti i značajka pomaka zidnih spona (ispitivanje u paru) (EN 846-5:2012)  
Methods of test for ancillary components for masonry – Part 5: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (couplet test) (EN 846-5:2012)

HRN EN 846-6:2012 en pr  
Metode ispitivanja pomoćnih dijelova zida – 6. dio: Određivanje vlačne i tlačne nosivosti i značajka pomaka zidnih spona (pojedinačno ispitivanje) (EN 846-6:2012)  
Methods of test for ancillary components for masonry – Part 6: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (single end test) (EN 846-6:2012)

HRN EN 846-7:2012 en pr  
Metode ispitivanja pomoćnih dijelova zida – 7. dio: Određivanje posmične nosivosti i značajka opterećenje-pomak posmičnih i kliznih spona (ispitivanje u paru veza sa sljubnicom) (EN 846-7:2012)  
Methods of test for ancillary components for masonry – Part 7: Determination of shear load capacity and load displacement characteristics of shear ties and slip ties (couplet test for mortar joint connections) (EN 846-7:2012)

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

HRN EN 1888:2012 en pr  
Proizvodi za dojenčad i malu djecu – Prijevozna sredstva na kotačima za djecu – Sigurnosni zahtjevi i metode ispitivanja (EN 1888:2012)  
Child care articles – Wheeled child conveyances – Safety requirements and test methods (EN 1888:2012)

#### **HZN/TO 182, Geotehničke konstrukcije**

HRN EN ISO 22282-1:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 1. dio: Opća pravila (ISO 22282-1:2012; EN ISO 22282-1:2012)  
Geotechnical investigation and testing – Geohydraulic testing – Part 1: General rules (ISO 22282-1:2012; EN ISO 22282-1:2012)

HRN EN ISO 22282-2:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 2. dio: Ispitivanje vodopropusnosti u bušotini otvorenim sustavom (ISO 22282-2:2012; EN ISO 22282-2:2012)

- Geotechnical investigation and testing – Geohydraulic testing – Part 2: Water permeability tests in a borehole using open systems (ISO 22282-2:2012; EN ISO 22282-2:2012)
- HRN EN ISO 22282-3:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 3. dio: Ispitivanje vodopropusnosti stijenske mase tlakom vode u bušotini (ISO 22282-3:2012; EN ISO 22282-3:2012)  
Geotechnical investigation and testing – Geohydraulic testing – Part 3: Water pressure tests in rock (ISO 22282-3:2012; EN ISO 22282-3:2012)
- HRN EN ISO 22282-4:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 4. dio: Ispitivanje crpenjem vode (ISO 22282-4:2012; EN ISO 22282-4:2012)  
Geotechnical investigation and testing – Geohydraulic testing – Part 4: Pumping tests (ISO 22282-4:2012; EN ISO 22282-4:2012)
- HRN EN ISO 22282-5:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 5. dio: Infiltrometrijsko ispitivanje (ISO 22282-5:2012; EN ISO 22282-5:2012)  
Geotechnical investigation and testing – Geohydraulic testing – Part 5: Infiltrometer tests (ISO 22282-5:2012; EN ISO 22282-5:2012)
- HRN EN ISO 22282-6:2012 en pr  
Geotehničko istraživanje i ispitivanje – Geohidrauličko ispitivanje – 6. dio: Ispitivanje vodopropusnosti u bušotini zatvorenim sustavom (ISO 22282-6:2012; EN ISO 22282-6:2012)  
Geotechnical investigation and testing – Geohydraulic testing – Part 6: Water permeability tests in a borehole using closed systems (ISO 22282-6:2012; EN ISO 22282-6:2012)

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

- HRI ISO/TR 14047:2012 en pr  
Upravljanje okolišem – Procjena utjecaja životnog ciklusa – Primjeri primjene ISO 14042 (ISO/TR 14047:2003)  
Environmental management – Life cycle impact assessment – Examples of application of ISO 14042 (ISO/TR 14047:2003)
- HRS ISO/TS 14048:2012 en pr  
Upravljanje okolišem – Procjena životnog ciklusa – Format podataka dokumentacije (ISO/TS 14048:2002)  
Environmental management – Life cycle assessment – Data documentation format (ISO/TS 14048:2002)
- HRI ISO/TR 14049:2012 en pr  
Upravljanje okolišem – Procjena životnog ciklusa – Primjeri primjene ISO 14041 prema cilju i opsegu definicije registra (ISO/TR 14049:2000)  
Environmental management – Life cycle assessment – Examples of application of ISO 14041 to goal and scope definition and inventory analysis (ISO/TR 14049:2000)

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

- HRI CR 1350:2012 en pr  
Istraživanje sintakse postojećih formata za razmjenu namijenjenih zdravstvenoj zaštiti (CR 1350:1993)  
Investigation of syntaxes for existing interchange formats to be used in health care (CR 1350:1993)
- HRN EN ISO 10781:2012 en pr  
Elektronički zdravstveni zapis – Funkcionalni model sustava, izdanje 1.1 (ISO 10781:2009; EN ISO 10781:2009)  
Electronic Health Record – System Functional Model, Release 1.1 (ISO 10781:2009; EN ISO 10781:2009)

- HRN EN ISO 11073-10404:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10404. dio: Specijalni uređaji – Pulsni oksimetar (ISO/IEEE 11073-10404:2010; EN ISO 11073-10404:2011)  
Health informatics – Personal health device communication – Part 10404: Device specialization – Pulse oximeter (ISO/IEEE 11073-10404:2010; EN ISO 11073-10404:2011)
- HRN EN ISO 11073-10407:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10407. dio: Specijalni uređaji – Uređaj za praćenje krvnoga tlaka (ISO/IEEE 11073-10407:2010; EN ISO 11073-10407:2011)  
Health informatics – Personal health device communication – Part 10407: Device specialization – Blood pressure monitor (ISO/IEEE 11073-10407:2010; EN ISO 11073-10407:2011)
- HRN EN ISO 11073-10408:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10408. dio: Specijalni uređaji – Toplomjer (ISO/IEEE 11073-10408:2010; EN ISO 11073-10408:2011)  
Health informatics – Personal health device communication – Part 10408: Device specialization – Thermometer (ISO/IEEE 11073-10408:2010; EN ISO 11073-10408:2011)
- HRN EN ISO 11073-10415:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10415. dio: Specijalni uređaji – Vaga (ISO/IEEE 11073-10415:2010; EN ISO 11073-10415:2011)  
Health informatics – Personal health device communication – Part 10415: Device specialization – Weighing scale (ISO/IEEE 11073-10415:2010; EN ISO 11073-10415:2011)
- HRN EN ISO 11073-10417:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10417. dio: Specijalni uređaji – Mjerač glukoze (ISO/IEEE 11073-10417:2010; EN ISO 11073-10417:2011)  
Health informatics – Personal health device communication – Part 10417: Device specialization – Glucose meter (ISO/IEEE 11073-10417:2010; EN ISO 11073-10417:2011)
- HRN EN ISO 11073-10471:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 10471. dio: Specijalni uređaji – Sustav kućnih uređaja za samostalan život starih i bolesnih osoba (ISO/IEEE 11073-10471:2010; EN ISO 11073-10471:2011)  
Health Informatics – Personal health device communication – Part 10471: Device specialization – Independant living activity hub (ISO/IEEE 11073-10471:2010; EN ISO 11073-10471:2011)
- HRN EN ISO 11073-20601:2012 en pr  
Medicinska informatika – Komunikacija među osobnim medicinskim uređajima – 20601. dio: Profil aplikacije – Optimizirani protokol izmjene podataka (ISO/IEEE 11073-20601:2010; EN ISO 11073-20601:2011)  
Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol (ISO/IEEE 11073-20601:2010; EN ISO 11073-20601:2011)
- HRI CR 12161:2012 en pr  
Metoda definiranja profila u zdravstvenoj zaštiti (CR 12161:1995)  
A method for defining profiles for healthcare (CR 12161:1995)

- HRS ENV 12443:2012 en pr  
Medicinska informatika – Radni okvir za zdravstvene informacije (HIF) (ENV 12443:1999)  
Medical informatics – Healthcare Information Framework (HIF) (ENV 12443:1999)
- HRS ENV 12537-1:2012 en pr  
Medicinska informatika – Registracija informacijskih objekata u elektroničkoj distribuciji informacija (EDI) u zdravstvu – 1. dio: Registar (ENV 12537-1:1997)  
Medical informatics – Registration of information objects used for EDI in healthcare – Part 1: The register (ENV 12537-1:1997)
- HRI CR 12587:2012 en pr  
Medicinska informatika – Metodologija za razvoj poruka u zdravstvu (CR 12587:1996)  
Medical informatics – Methodology for the development of healthcare messages (CR 12587:1996)
- HRS ENV 12610:2012 en pr  
Medicinska informatika – Identifikacija medicinskih proizvoda (ENV 12610:1997)  
Medical informatics – Medicinal product identification (ENV 12610:1997)
- HRS ENV 12611:2012 en pr  
Medicinska informatika – Kategorijska struktura sustava konceptata – Medicinski uređaji (ENV 12611:1997)  
Medical informatics – Categorical structure of systems of concepts – Medical devices (ENV 12611:1997)
- HRS ENV 12612:2012 en pr  
Medicinska informatika – Poruke za razmjenu administrativnih informacija u zdravstvu (ENV 12612:1997)  
Medical informatics – Messages for the exchange of healthcare administrative information (ENV 12612:1997)
- HRN EN ISO 13606-5:2012 en pr  
Medicinska informatika – Prijenos elektroničkoga zdravstvenog zapisa – 5. dio: Specifikacija sučelja (ISO 13606-5:2010; EN ISO 13606-5:2010)  
Health informatics – Electronic health record communication – Part 5: Interface specification (ISO 13606-5:2010; EN ISO 13606-5:2010)
- HRS ENV 13609-2:2012 en pr  
Medicinska informatika – Poruke za potporu informacijama u zdravstvenome sustavu – 2. dio: Ažuriranje medicinskih informacija specifičnih za laboratorij (ENV 13609-2:2000)  
Health informatics – Messages for maintenance of supporting information in healthcare systems – Part 2: Updating of medical laboratory-specific information (ENV 13609-2:2000)
- HRI CR 13694:2012 en pr  
Medicinska informatika – Norme kvalitete za programsku podršku koja se odnosi na sigurnost i zaštitu u zdravstvenoj zaštiti (SSQS) (CR 13694:1999)  
Health informatics – Safety and Security Related Software Quality Standards for Healthcare (SSQS) (CR 13694:1999)
- HRS ENV 13730-1:2012 en pr  
Medicinska informatika – Poruke koje se odnose na transfuziju krvi – 1. dio: Poruke koje se odnose na subjekt zdravstvene skrbi (ENV 13730-1:2001)  
Health informatics – Blood transfusion related messages – Part 1: Subject of care related messages (ENV 13730-1:2001)
- HRS ENV 13730-2:2012 en pr  
Medicinska informatika – Poruke koje se odnose na transfuziju krvi – 2. dio: Poruke koje se odnose na proizvod (ENV 13730-2:2002)  
Healthcare informatics – Blood transfusion related messages – Part 2: Production related messages (BTR-PROD) (ENV 13730-2:2002)
- HRI CR 14301:2012 en pr  
Medicinska informatika – Radni okvir za sigurnosnu zaštitu komunikacije u zdravstvenoj zaštiti (CR 14301:2002)  
Health informatics – Framework for security protection of healthcare communication (CR 14301:2002)
- HRI CR 14302:2012 en pr  
Medicinska informatika – Radni okvir za sigurnosne zahtjeve za uređaje koji se povremeno spajaju (CR 14302:2002)  
Health informatics – Framework for security requirements for intermittently connected devices (CR 14302:2002)
- HRS CEN/TS 14822-4:2012 en pr  
Medicinska informatika – Informacije za opću uporabu – 4. dio: Zaglavljiva poruka (CEN/TS 14822-4:2005)  
Health informatics – General purpose information components – Part 4: Message headers (CEN/TS 14822-4:2005)
- HRI CEN/TR 15212:2012 en pr  
Medicinska informatika – Rječnik – Procedura održavanja baze podataka mrežno utemeljenih naziva i pojmova (CEN/TR 15212:2006)  
Health informatics – Vocabulary – Maintenance procedure for a web-based terms and concepts database (CEN/TR 15212:2006)
- HRI CEN/TR 15253:2012 en pr  
Medicinska informatika – Zahtjevi za kvalitetu usluga u razmjeni zdravstvenih informacija (CEN/TR 15253:2005)  
Health informatics – Quality of service requirements for health information interchange (CEN/TR 15253:2005)
- HRS CEN/TS 15260:2012 en pr  
Medicinska informatika – Razredba sigurnosnih rizika od proizvoda medicinske informatike (CEN/TS 15260:2006)  
Health informatics – Classification of safety risks from health informatics products (CEN/TS 15260:2006)
- HRI CEN/TR 15299:2012 en pr  
Medicinska informatika – Sigurnosni postupci za identifikaciju pacijenata i s njim povezanih objekata (CEN/TR 15299:2006)  
Health informatics – Safety procedures for identification of patients and related objects (CEN/TR 15299:2006)
- HRI CEN/TR 15300:2012 en pr  
Medicinska informatika – Radni okvir za formalno modeliranje zdravstvenih sigurnosnih politika (CEN/TR 15300:2006)  
Health informatics – Framework for formal modelling of healthcare security policies (CEN/TR 15300:2006)
- HRI CEN/TR 15640:2012 en pr  
Medicinska informatika – Mjere za osiguranje sigurnosti pacijenta pri primjeni programske podrške u zdravstvu (CEN/TR 15640:2007)  
Health informatics – Measures for ensuring the patient safety of health software (CEN/TR 15640:2007)
- HRS CEN/TS 15699:2012 en pr  
Medicinska informatika – Izvori kliničkoga znanja – Metapodaci (CEN/TS 15699:2009)  
Health informatics – Clinical knowledge resources – Metadata (CEN/TS 15699:2009)
- HRN EN ISO 21090:2012 en pr  
Medicinska informatika – Usklađeni tipovi podataka za razmjenu informacija (ISO 21090:2011; EN ISO 21090:2011)  
Health Informatics – Harmonized data types for information interchange (ISO 21090:2011; EN ISO 21090:2011)
- HRN EN ISO 21549-8:2012 en pr  
Medicinska informatika – Podaci na zdravstvenoj kartici pacijenta – Poveznice (ISO 21549-8:2010; EN ISO 21549-8:2010)

Health informatics – Patient healthcard data – Part 8: Links (ISO 21549-8:2010; EN ISO 21549-8:2010)

HRN ISO/HL7 27931:2012 en pr  
Norme za razmjenu podataka – HL7 inačica 2.5 – Aplikacijski protokol za elektroničku razmjenu podataka u zdravstvenome sustavu (ISO/HL7 27931:2009)  
Data Exchange Standards – Health Level Seven Version 2.5 – An application protocol for electronic data exchange in healthcare environments (ISO/HL7 27931:2009)

HRN ISO/HL7 27932:2012 en pr  
Norme za razmjenu podataka – Arhitektura kliničkoga dokumenta HL7, 2. izdanje (ISO/HL7 27932:2009)  
Data Exchange Standards – HL7 Clinical Document Architecture, Release 2 (ISO/HL7 27932:2009)

HRN ISO/HL7 27951:2012 en pr  
Medicinska informatika – Zajedničke terminološke usluge, 1. izdanje (ISO/HL7 27951:2009)  
Health informatics – Common terminology services, release 1 (ISO/HL7 27951:2009)

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

HRN ISO 10130:2012 en pr  
Kozmetika – Analitičke metode – Nitrozamini: određivanje i kvantifikacija N-nitrozodietanolamina (NDELA) u kozmetici HPLC tehnikom, postkolonska fotoliza i derivatizacija (ISO 10130:2009)  
Cosmetics – Analytical methods – Nitrosamines: Detection and determination of N-nitrosodiethanolamine (NDELA) in cosmetics by HPLC, post-column photolysis and derivatisation (ISO 10130:2009)

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

HRN EN 10245-5:2012 en pr  
Čelična žica i žičani proizvodi – Organske prevlake na čeličnoj žici – 5. dio: Žica prevučena poliamidom (EN 10245-5:2011)  
Steel wire and wire products – Organic coatings on steel wire – Part 5: Polyamide coated wire (EN 10245-5:2011)

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

HRN EN 1317-5:2012 en pr  
Zaštitni cestovni sustavi – 5. dio: Zahtjevi za proizvod i ocjenjivanje sukladnosti za zaštitne cestovne sustave (EN 1317-5:2007+A2:2012)  
Road restraint systems – Part 5: Product requirements and evaluation of conformity for vehicle restraint systems (EN 1317-5:2007+A2:2012)

HRI CEN/TR 1317-6:2012 en pr  
Zaštitni cestovni sustavi – 6. dio: Pješачki cestovni sustavi – Pješачki parapeti (CEN/TR 1317-6:2012)  
Road restraint systems – Part 6: Pedestrian restraint system – Pedestrian parapets (CEN/TR 1317-6:2012)

HRI CEN/TR 16303-1:2012 en pr  
Zaštitni cestovni sustavi – Smjernice za mehanizme računalnoga ispitivanja zaštitnoga sustava pri sudaru vozila – 1. dio: Osnovne referentne informacije i izvještaji (CEN/TR 16303-1:2012)  
Road restraint systems – Guidelines for computational mechanics of crash testing against vehicle restraint system – Part 1: Common reference information and reporting (CEN/TR 16303-1:2012)

HRI CEN/TR 16303-2:2012 en pr  
Zaštitni cestovni sustavi – Smjernice za mehanizme računalnoga ispitivanja zaštitnoga sustava pri sudaru vozila – 2. dio: Oblikovanje i potvrđivanje vozila (CEN/TR 16303-2:2012)  
Road restraint systems – Guidelines for computational mechanics of crash testing against vehicle restraint system – Part 2: Vehicle Modelling and Verification (CEN/TR 16303-2:2012)

HRI CEN/TR 16303-3:2012 en pr  
Zaštitni cestovni sustavi – Smjernice za mehanizme računalnoga ispitivanja zaštitnoga sustava pri sudaru vozila – 3. dio: Ispitna stavka oblikovanje i potvrđivanje (CEN/TR 16303-3:2012)  
Road restraint systems – Guidelines for computational mechanics of crash testing against vehicle restraint system – Part 3: Test Item Modelling and Verification (CEN/TR 16303-3:2012)

HRI CEN/TR 16303-4:2012 en pr  
Zaštitni cestovni sustavi – Smjernice za mehanizme računalnoga ispitivanja zaštitnoga sustava pri sudaru vozila – 4. dio: Postupci vrednovanja (CEN/TR 16303-4:2012)  
Road restraint systems – Guidelines for computational mechanics of crash testing against vehicle restraint system – Part 4: Validation Procedures (CEN/TR 16303-4:2012)

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

HRN EN 15700:2012 en pr  
Sigurnost traka konvejera za zimski sport ili slobodne aktivnosti (EN 15700:2011)  
Safety for conveyor belts for winter sport or leisure use (EN 15700:2011)

### **HZN/TO 517, Posebne vrste konstrukcija**

HRN EN 16031:2012 en pr  
Podesivi teleskopski aluminijski podupirači – Specifikacija proizvoda, projektiranje i ocjenjivanje proračunom i ispitivanjem (EN 16031:2012)  
Adjustable telescopic aluminium props – Product specifications, design and assessment by calculation and tests (EN 16031:2012)

### **HZN/TO 521, Usluge održavanja**

HRN EN 15221-1:2012 hr,en pp  
Upravljanje objektima i sustavima podrške – 1. dio: Nazivi i definicije (EN 15221-1:2006)  
Facility Management – Part 1: Terms and definitions (EN 15221-1:2006)

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

HRS CEN/TS 15862:2012 en pr  
Karakterizacija otpada – Provjera izluživanja – Jednostupanjski postupak ispitivanja izluživanja za monolite pri omjeru tekućina/zrak površina (L/A) za ispitivane dijelove sa stalnim minimalnim dimenzijama (CEN/TS 15862:2012)  
Characterization of waste – Compliance leaching test – One stage batch leaching test for monoliths at fixed liquid to surface area ratio (L/A) for test portions with fixed minimum dimensions (CEN/TS 15862:2012)

HRS CEN/TS 15863:2012 en pr  
Karakterizacija otpada – Ispitivanje ponašanja izluživanja za osnovnu karakterizaciju – Dinamička provjera monolitnog izluživanja s periodičkom obnovom lužine pri stalnim uvjetima ispitivanja (CEN/TS 15863:2012)  
Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic Monolithic Leaching Test with periodic leachant renewal, under fixed test conditions (CEN/TS 15863:2012)

HRS CEN/TS 15864:2012 en pr  
Karakterizacija otpada – Ispitivanje ponašanja izluživanja za osnovnu karakterizaciju – Dinamička monolitna provjera izluživanja sa stalnom obnovom lužine u uvjetima relevantnim za specifični(e) scenarij(e) (CEN/TS 15864:2012)  
Characterisation of waste – Leaching behaviour test for basic characterisation – Dynamic monolithic leaching test with continuous leachant renewal under conditions relevant for specified scenario(s) (CEN/TS 15864:2012)



## **HZN/TO 524, Cestovni prijevoz i prometna telematika**

- HRN EN ISO 12855:2012 en pr  
Elektronička naplata – Razmjena informacija između pružanja usluge i naplate cestarine (ISO 12855:2012; EN ISO 12855:2012)  
Electronic fee collection – Information exchange between service provision and toll charging (ISO 12855:2012; EN ISO 12855:2012)
- HRS CEN ISO/TS 13140-2:2012 en pr  
Elektronička naplata – Vrednovanje opreme u vozilu i opreme uz prometnicu sukladno ISO/TS 13141 – 2. dio: Načelni niz testova (ISO/TS 13140-2:2012; CEN ISO/TS 13140-2:2012)  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to ISO/TS 13141 – Part 2: Abstract test suite (ISO/TS 13140-2:2012; CEN ISO/TS 13140-2:2012)
- HRS CEN ISO/TS 14907-2:2012 en pr  
Elektronička naplata – Ispitni postupci za korisničku i nepomičnu opremu – Ispitivanje sukladnosti sučelja aplikacije za uređaje ugrađene u vozilo (ISO/TS 14907-2:2011; CEN ISO/TS 14907-2:2011)  
Electronic fee collection – Test procedures for user and fixed equipment – Part 2: Conformance test for the onboard unit application interface (ISO/TS 14907-2:2011; CEN ISO/TS 14907-2:2011)
- HRN EN 15876-1:2012 en pr  
Elektronička naplata – Vrednovanje opreme u vozilu i opreme uz prometnicu sukladno normi EN 15509 – 1. dio: Struktura niza testova i svrha ispitivanja (EN 15876-1:2010+A1:2012)  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 1: Test suite structure and test purposes (EN 15876-1:2010+A1:2012)
- HRS CEN/TS 16157-1:2012 en pr  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 1. dio: Okruženje i okvir (CEN/TS 16157-1:2011)  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 1: Context and framework (CEN/TS 16157-1:2011)
- HRS CEN/TS 16157-2:2012 en pr  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 2. dio: Referenciranje lokacija (CEN/TS 16157-2:2011)  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 2: Location referencing (CEN/TS 16157-2:2011)
- HRS CEN/TS 16157-3:2012 en pr  
Inteligentni transportni sustavi – DATEX II specifikacija za razmjenu podataka za upravljanje prometom i informiranje – 3. dio: Objava situacija (CEN/TS 16157-3:2011)  
Intelligent transport systems – DATEX II data exchange specifications for traffic management and information – Part 3: Situation Publication (CEN/TS 16157-3:2011)
- HRI CEN/TR 16219:2012 en pr  
Elektronička naplata – Usluge dodane vrijednosti zasnovane na opremi za elektroničku naplatu ugrađenoj u vozilo (CEN/TR 16219:2011)  
Electronic Fee Collection – Value added services based on EFC on-board equipment (CEN/TR 16219:2011)
- HRS CEN/TS 16331:2012 en pr  
Elektronička naplata – Profili interoperabilnih primjena za autonomne sustave (CEN/TS 16331:2012)  
Electronic fee collection – Interoperable application profiles for autonomous systems (CEN/TS 16331:2012)
- HRS CEN ISO/TS 16401-1:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-2 – 1. dio: Struktura niza testova i svrha testiranja (ISO/TS 16401-1:2012; CEN ISO/TS 16401-1:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-2 – Part 1: Test suite structure and test purposes (ISO/TS 16401-1:2012; CEN ISO/TS 16401-1:2012)
- HRS CEN ISO/TS 16401-2:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-2 – 2. dio: Načelni niz testova (ISO/TS 16401-2:2012; CEN ISO/TS 16401-2:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-2 – Part 2: Abstract test suite (ISO/TS 16401-2:2012; CEN ISO/TS 16401-2:2012)
- HRS CEN ISO/TS 16403-1:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-4 – 1. dio: Struktura niza testova i svrha ispitivanja (ISO/TS 16403-1:2012; CEN ISO/TS 16403-1:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-4 – Part 1: Test suite structure and test purposes (ISO/TS 16403-1:2012; CEN ISO/TS 16403-1:2012)
- HRS CEN ISO/TS 16403-2:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-4 – 2. dio: Načelni niz testova (ISO/TS 16403-2:2012; CEN ISO/TS 16403-2:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-4 – Part 2: Abstract test suite (ISO/TS 16403-2:2012; CEN ISO/TS 16403-2:2012)
- HRS CEN ISO/TS 16407-1:2012 en pr  
Elektronička naplata – Vrednovanje opreme za utvrđivanje sukladnosti s ISO/TS 17575-1 – 1. dio: Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 16407-1:2011; CEN ISO/TS 16407-1:2011)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-1 – Part 1: Test suite structure and test purposes (ISO/TS 16407-1:2011; CEN ISO/TS 16407-1:2011)
- HRS CEN ISO/TS 16407-2:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-1 – 2. dio: Načelni niz testova (ISO/TS 16407-2:2012; CEN ISO/TS 16407-2:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-1 – Part 2: Abstract test suite (ISO/TS 16407-2:2012; CEN ISO/TS 16407-2:2012)
- HRS CEN ISO/TS 16410-1:2012 en pr  
Elektronička naplata – Vrednovanje opreme za utvrđivanje sukladnosti – Struktura ispitnog paketa i svrhe ispitivanja (ISO/TS 16410-1:2011; CEN ISO/TS 16410-1:2011)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-3 – Part 1: Test suite structure and test purposes (ISO/TS 16410-1:2011; CEN ISO/TS 16410-1:2011)
- HRS CEN ISO/TS 16410-2:2012 en pr  
Elektronička naplata – Vrednovanje opreme sukladno ISO/TS 17575-3 – 2. dio: Načelni niz testova (ISO/TS 16410-2:2012; CEN ISO/TS 16410-2:2012)  
Electronic fee collection – Evaluation of equipment for conformity to ISO/TS 17575-3 – Part 2: Abstract test suite (ISO/TS 16410-2:2012; CEN ISO/TS 16410-2:2012)

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

- HRN EN 13583:2012 en pr  
Savitljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na tuču (EN 13583:2012)  
Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of hail resistance (EN 13583:2012)
- HRN EN 14909:2012 en pr  
Savitljive hidroizolacijske trake – Plastične i elastomerne trake za sprečavanje kapilarnog podizanja vode – Definicije i značajke (EN 14909:2012)  
Flexible sheets for waterproofing – Plastic and rubber damp proof courses – Definitions and characteristics (EN 14909:2012)

## **HZN/TO 526, Bitumenska veziva**

- HRN EN 1425:2012 en pr  
Bitumen i bitumenska veziva – Karakterizacija vidljivih svojstava (EN 1425:2012)  
Bitumen and bituminous binders – Characterization of perceptible properties (EN 1425:2012)
- HRN EN 13075-1:2012 en pr  
Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 1. dio: Određivanje vrijednosti raspada kationskih bitumenskih emulzija, metoda s mineralnim punilom (EN 13075-1:2012)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method (EN 13075-1:2012)
- HRN EN 14769:2012 en pr  
Bitumen i bitumenska veziva – Postupak oponašanja ubrzanoga dugotrajnog starenja uporabom tlačne komore (PAV) (EN 14769:2012)  
Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV) (EN 14769:2012)
- HRN EN 14770:2012 en pr  
Bitumen i bitumenska veziva – Određivanje kompleksnoga posmičnog modula i faznoga kuta – Reometar s dinamičkim smicanjem (DSR) (EN 14770:2012)  
Bitumen and bituminous binders – Determination of complex shear modulus and phase angle – Dynamic Shear Rheometer (DSR) (EN 14770:2012)
- HRN EN 14771:2012 en pr  
Bitumen i bitumenska veziva – Određivanje krutosti puzanja pri savijanju – Reometar za ispitivanje uzorka savijanjem (BBR) (EN 14771:2012)  
Bitumen and bituminous binders – Determination of the flexural creep stiffness – Bending Beam Rheometer (BBR) (EN 14771:2012)
- HRN EN 16345:2012 en pr  
Bitumen i bitumenska veziva – Određivanje vremena istjecanja bitumenske emulzije uporabom viskozimetra Redwood II (EN 16345:2012)  
Bitumen and bituminous binders – Determination of efflux time of bituminous emulsions using the Redwood No. II Viscometer (EN 16345:2012)

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

- HRN EN 13146-1:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 1. dio: Određivanje otpora uzdužnomu pomicanju tračnice (EN 13146-1:2012)  
Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint (EN 13146-1:2012)

- HRN EN 13146-2:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 2. dio: Određivanje otpora zakretanju tračnice (EN 13146-2:2012)  
Railway applications – Track – Test methods for fastening systems – Part 2: Determination of torsional resistance (EN 13146-2:2012)
- HRN EN 13146-3:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 3. dio: Određivanje prigušivanja udarnoga opterećenja (EN 13146-3:2012)  
Railway applications – Track – Test methods for fastening systems – Part 3: Determination of attenuation of impact loads (EN 13146-3:2012)
- HRN EN 13146-4:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 4. dio: Utjecaj ponavljanja opterećenja (EN 13146-4:2012)  
Railway applications – Track – Test methods for fastening systems – Part 4: Effect of repeated loading (EN 13146-4:2012)
- HRN EN 13146-5:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 5. dio: Određivanje električnoga otpora (EN 13146-5:2012)  
Railway applications – Track – Test methods for fastening systems – Part 5: Determination of electrical resistance (EN 13146-5:2012)
- HRN EN 13146-6:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 6. dio: Utjecaj nepovoljnih uvjeta okoliša (EN 13146-6:2012)  
Railway applications – Track – Test methods for fastening systems – Part 6: Effect of severe environmental conditions (EN 13146-6:2012)
- HRN EN 13146-7:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 7. dio: Određivanje pričvrtnih sila (EN 13146-7:2012)  
Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force (EN 13146-7:2012)
- HRN EN 13146-8:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrtni pribor – 8. dio: Ispitivanje u uporabi (EN 13146-8:2012)  
Railway applications – Track – Test methods for fastening systems – Part 8: In service testing (EN 13146-8:2012)
- HRN EN 13231-3:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Preuzimanje radova – 3. dio: Preuzimanje radova na brušenju i izravnavanju tračnica u kolosijeku (EN 13231-3:2012)  
Railway applications – Track – Acceptance of works – Part 3: Acceptance of reprofiling rails in track (EN 13231-3:2012)
- HRN EN 13272:2012 en pr  
Oprema za željeznice – Električna rasvjeta željezničkih vozila u sustavima javnoga prijevoza (EN 13272:2012)  
Railway applications – Electrical lighting for rolling stock in public transport systems (EN 13272:2012)
- HRN EN 14033-2:2012 en pr  
Oprema za željeznice – Željeznički gornji ustroj – Kolosiječni strojevi za gradnju i održavanje – 2. dio: Tehnički zahtjevi za rad (EN 14033-2:2008+A1:2011)  
Railway applications – Track – Railbound construction and maintenance machines – Part 2: Technical requirements for working (EN 14033-2:2008+A1:2011)

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

- HRN EN ISO 1628-1:2009/A1:2012 en pr  
Plastika – Određivanje viskoznosti polimera u razrijeđenoj otopini uporabom kapilarnih viskozimetara – 1. dio: Opća načela (ISO 1628-1:2009/Amd 1:2012; EN ISO 1628-1:2009/A1:2012)  
Plastics – Determination of the viscosity of polymers in dilute solution using capillary viscometers – Part 1: General principles (ISO 1628-1:2009/Amd 1:2012; EN ISO 1628-1:2009/A1:2012)
- HRN EN ISO 3673-2:2012 en pr  
Plastika – Epoksidne smole – 2. dio: Priprava ispitaka i određivanje svojstava umreženih epoksi-smola (ISO 3673-2:2012; EN ISO 3673-2:2012)  
Plastics – Epoxy resins – Part 2: Preparation of test specimens and determination of properties of crosslinked epoxy resins (ISO 3673-2:2012; EN ISO 3673-2:2012)
- HRN EN ISO 7214:2012 en pr  
Pjenasta plastika – Polietilen – Metode ispitivanja (ISO 7214:2012; EN ISO 7214:2012)  
Cellular plastics – Polyethylene – Methods of test (ISO 7214:2012; EN ISO 7214:2012)
- HRN EN ISO 11833-1:2012 en pr  
Plastika – Neomekšane poli(vinil-kloridne) ploče – Tipovi, dimenzije i karakteristike – 1. dio: Ploče debljine veće od 1 mm (ISO 11833-1:2012; EN ISO 11833-1:2012)  
Plastics – Unplasticized poly(vinyl chloride) sheets – Types, dimensions and characteristics – Part 1: Sheets of thickness not less than 1 mm (ISO 11833-1:2012; EN ISO 11833-1:2012)
- HRN EN ISO 17556:2012 en pr  
Plastika – Određivanje konačne aerobne biorazgradljivosti plastičnih materijala u tlu mjerenjem potrošnje kisika u respirometru ili količine nastalog ugljikova dioksida (ISO 17556:2012; EN ISO 17556:2012)  
Plastics – Determination of the ultimate aerobic biodegradability of plastic materials in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved (ISO 17556:2012; EN ISO 17556:2012)

## HZN/TO 533, *Kolničke konstrukcije*

- HRN EN 12697-1:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 1. dio: Topivi udio veziva (EN 12697-1:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 1: Soluble binder content (EN 12697-1:2012)
- HRN EN 12697-5:2009/lsp.1:2012 en pr  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 5. dio: Određivanje gustoće asfaltne mješavine (EN 12697-5:2009/AC:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 5: Determination of the maximum density (EN 12697-5:2009/AC:2012)
- HRN EN 12697-6:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 6. dio: Određivanje gustoće asfaltnih uzoraka (EN 12697-6:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 6: Determination of bulk density of bituminous specimens (EN 12697-6:2012)
- HRN EN 12697-11:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 11. dio: Određivanje prionljivosti bitumena i agregata (EN 12697-11:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 11: Determination of the affinity between aggregate and bitumen (EN 12697-11:2012)
- HRN EN 12697-19:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 19. dio: Propusnost uzorka (EN 12697-19:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 19: Permeability of specimen (EN 12697-19:2012)
- HRN EN 12697-20:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 20. dio: Utiskivanje na kockama ili cilindričnim uzorcima (CY) (EN 12697-20:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 20: Indentation using cube or cylindrical specimens (CY) (EN 12697-20:2012)
- HRN EN 12697-21:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 21. dio: Utiskivanje na pločastim uzorcima (EN 12697-21:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 21: Indentation using plate specimens (EN 12697-21:2012)
- HRN EN 12697-24:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 24. dio: Otpornost na zamor (EN 12697-24:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 24: Resistance to fatigue (EN 12697-24:2012)
- HRN EN 12697-26:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 26. dio: Krutost (EN 12697-26:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 26: Stiffness (EN 12697-26:2012)
- HRN EN 12697-30:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 30. dio: Priprema uzorka udarnim zbijanjem (EN 12697-30:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 30: Specimen preparation by impact compactor (EN 12697-30:2012)
- HRN EN 12697-34:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 34. dio: Marshallovo ispitivanje (EN 12697-34:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 34: Marshall test (EN 12697-34:2012)
- HRN EN 12697-39:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 39. dio: Određivanje udjela veziva spaljivanjem (EN 12697-39:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 39: Binder content by ignition (EN 12697-39:2012)
- HRN EN 12697-40:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 40. dio: Vodopropusnost in situ (EN 12697-40:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 40: In situ drainability (EN 12697-40:2012)
- HRN EN 12697-45:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 45. dio: Ispitivanje starenja zasićenim asfaltnim uzorcima (SATS) (EN 12697-45:2012)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 45: Saturation Ageing Tensile Stiffness (SATS) conditioning test (EN 12697-45:2012)
- HRN EN 12697-46:2012 en pr  
Bitumenske mješavine – Metode ispitivanja za asfalt proizveden vrućim postupkom – 46. dio: Niskotemperaturne pukotine i svojstva pri jednoosnim vlačnim ispitivanjima (EN 12697-46:2012)

Bituminous mixtures – Test methods for hot mix asphalt – Part 46: Low temperature cracking and properties by uniaxial tension tests (EN 12697-46:2012)

- HRN EN 13286-47:2012 en pr  
Nevezane i hidrauličnim vezivom vezane mješavine – 47. dio: Metoda ispitivanja za određivanje kalifornijskog indeksa nosivosti, neposrednog indeksa nosivosti i linearnog bubrenja (EN 13286-47:2012)  
Unbound and hydraulically bound mixtures – Part 47: Test method for the determination of California bearing ratio, immediate bearing index and linear swelling (EN 13286-47:2012)
- HRN EN 13863-4:2012 en pr  
Betonski kolnici – 4. dio: Metoda ispitivanja za određivanje otpornosti betonskog kolnika na gume s čavlima (EN 13863-4:2012)  
Concrete pavements – Part 4: Test methods for the determination of wear resistance of concrete pavements to studded tyres (EN 13863-4:2012)

### HZN/TO 535, Agregati

- HRN EN 932-5:2012 en pr  
Ispitivanje općih svojstava agregata – 5. dio: Uobičajena oprema i umjeravanje (EN 932-5:2012)  
Tests for general properties of aggregates – Part 5: Common equipment and calibration (EN 932-5:2012)

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

- HRN EN ISO 12543-1:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 1. dio: Definicija i opis sastavnih dijelova (ISO 12543-1:2011; EN ISO 12543-1:2011)  
Glass in building – Laminated glass and laminated safety glass – Part 1: Definitions and description of component parts (ISO 12543-1:2011; EN ISO 12543-1:2011)
- HRN EN ISO 12543-2:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 2. dio: Višeslojno sigurnosno staklo (ISO 12543-2:2011; EN ISO 12543-2:2011)  
Glass in building – Laminated glass and laminated safety glass – Part 2: Laminated safety glass (ISO 12543-2:2011; EN ISO 12543-2:2011)
- HRN EN ISO 12543-3:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 3. dio: Višeslojno staklo (ISO 12543-3:2011; EN ISO 12543-3:2011)  
Glass in building – Laminated glass and laminated safety glass – Part 3: Laminated glass (ISO 12543-3:2011; EN ISO 12543-3:2011)
- HRN EN ISO 12543-4:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 4. dio: Metode ispitivanja za trajnost (ISO 12543-4:2011; EN ISO 12543-4:2011)  
Glass in building – Laminated glass and laminated safety glass – Part 4: Test methods for durability (ISO 12543-4:2011; EN ISO 12543-4:2011)
- HRN EN ISO 12543-5:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 5. dio: Dimenzije i obradba rubova (ISO 12543-5:2011; EN ISO 12543-5:2011)  
Glass in building – Laminated glass and laminated safety glass – Part 5: Dimensions and edge finishing (ISO 12543-5:2011; EN ISO 12543-5:2011)
- HRN EN ISO 12543-6:2012 en pr  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 6. dio: Izgled (ISO 12543-6:2011+Cor 1:2012; EN ISO 12543-6:2011+AC:2012)  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance (ISO 12543-6:2011+Cor 1:2012; EN ISO 12543-6:2011+AC:2012)

- HRN EN 13126-13:2012 en pr  
Građevni okovi – Okovi za prozore i balkonska vrata – Zahtjevi i metode ispitivanja – 13. dio: Ravnotežni utezi krila (EN 13126-13:2012)  
Building hardware - Hardware for windows and balcony doors – Requirements and test methods – Part 13: Sash balances (EN 13126-13:2012)
- HRN EN 13126-14:2012 en pr  
Građevni okovi – Okovi za prozore i balkonska vrata – Zahtjevi i metode ispitivanja – 14. dio: Okretni zatvarači krila (EN 13126-14:2012)  
Building hardware – Hardware for windows and balcony doors – Requirements and test methods – Part 14: Sash fasteners (EN 13126-14:2012)

### HZN/TO 544, Strojni elementi

- HRN EN ISO 898-2:2012 en pr  
Mehanička svojstva spojnih elemenata izrađenih od ugljičnih i legiranih čelika – 2. dio: Matice sa specificiranim razredima čvrstoće – Grubi i fini navoj (ISO 898-2:2012; EN ISO 898-2:2012)  
Mechanical properties of fasteners made of carbon steel and alloy steel – Part 2: Nuts with specified property classes – Coarse thread and fine pitch thread (ISO 898-2:2012; EN ISO 898-2:2012)

### HZN/TO 548, Konstrukcijski eurokodovi

- HRN EN 1994-1-1:2012 hr pp  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade (EN 1994-1-1:2004+AC:2009)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-1: General rules and rules for buildings (EN 1994-1-1:2004+AC:2009)
- HRN EN 1994-1-1:2012/NA:2012 hr izv  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-1: Opća pravila i pravila za zgrade – Nacionalni dodatak  
Eurocode 4: Design of composite steel and concrete structures – Part 1-1: General rules and rules for buildings – National annex
- HRN EN 1994-1-2:2012 hr pp  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na djelovanje požara (EN 1994-1-2:2005+AC:2008)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-2: General rules – Structural fire design (EN 1994-1-2:2005+AC:2008)
- HRN EN 1994-1-2:2012/NA:2012 hr izv  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na djelovanje požara – Nacionalni dodatak  
Eurocode 4: Design of composite steel and concrete structures – Part 1-2: General rules – Structural fire design – National annex
- HRN EN 1994-2:2012 hr pp  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – 2. dio: Opća pravila i pravila za mostove (EN 1994-2:2005+AC:2008)  
Eurocode 4: Design of composite steel and concrete structures – Part 2: General rules and rules for bridges (EN 1994-2:2005+AC:2008)
- HRN EN 1994-2:2012/NA:2012 hr izv  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – 2. dio: Opća pravila i pravila za mostove – Nacionalni dodatak  
Eurocode 4: Design of composite steel and concrete structures – Part 2: General rules and rules for bridges – National annex

## HZN/TO 550, *Opskrba vodom*

- HRN EN 890:2012 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Otopina željezo (III) sulfata (EN 890:2012)  
Chemicals used for treatment of water intended for human consumption – Iron (III) sulfate solution (EN 890:2012)
- HRN EN 13752:2012 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Manganov dioksid (EN 13752:2012)  
Chemicals used for treatment of water intended for human consumption – Manganese dioxide (EN 13752:2012)
- HRN EN 16037:2012 en pr  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev hidrogensulfat (EN 16037:2012)  
Chemicals used for treatment of water intended for human consumption – Sodium hydrogen sulfate (EN 16037:2012)
- HRN EN 16038:2012 en pr  
Kemikalije koje se upotrebljavaju u obradi vode bazena za plivanje – Natrij hidrogensulfat (EN 16038:2012)  
Chemicals used for treatment of water for swimming pools – Sodium hydrogen sulfate (EN 16038:2012)
- HRN EN 16056:2012 en pr  
Utjecaj metalnih materijala na vodu namijenjenu ljudskoj uporabi – Metoda za procjenu pasivnog ponašanja nehrđajućeg čelika (EN 16056:2012)  
Influence of metallic materials on water intended for human consumption – Method to evaluate the passive behaviour of stainless steels (EN 16056:2012)
- HRN EN 16057:2012 en pr  
Utjecaj metalnih materijala na vodu namijenjenu ljudskoj uporabi – Određivanje površinskog rezidualnog olova (PB) – Metoda ekstrakcije (EN 16057:2012)  
Influence of metallic materials on water intended for human consumption – Determination of residual surface lead (Pb) – Extraction method (EN 16057:2012)

## HZN/TO 553, *Predgotovljeni proizvodi*

- HRN EN 997:2012/Ispr.1:2012 en pr  
WC školjke i WC garniture s ugrađenim sifonom (EN 997:2012/AC:2012)  
WC pans and WC suites with integral trap (EN 997:2012/AC:2012)
- HRN EN 14891:2012 en pr  
Vodonepropusni proizvodi u tekućem obliku za primjenu ispod keramičkih pločica povezanih ljepilom – Zahtjevi, ispitne metode, vrednovanje sukladnosti, razredba i označavanje (EN 14891:2012)  
Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, evaluation of conformity, classification and designation (EN 14891:2012)
- HRN EN 14992:2012 en pr  
Predgotovljeni betonski proizvodi – Elementi za zidove (EN 14992:2007+A1:2012)  
Precast concrete products – Wall elements (EN 14992:2007+A1:2012)

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

- HRN EN 295-3:2012 en pr  
Keramički cijevni sustavi za odvodnju i kanalizaciju – 3. dio: Metode ispitivanja (EN 295-3:2012)  
Vitrified clay pipe systems for drains and sewers – Part 3: Test methods (EN 295-3:2012)

## HZN/TO 560, *Tekstilni proizvodi*

- HRN EN ISO 1140:2012 en pr  
Vlaknasta užad – Poliamidno vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1140:2012; EN ISO 1140:2012)  
Fibre ropes – Polyamide – 3-, 4-, 8- and 12- strand ropes (ISO 1140:2012; EN ISO 1140:2012)
- HRN EN ISO 1141:2012 en pr  
Vlaknasta užad – Poliestersko vlakno – 3-, 4-, 8- i 12-struka užad (ISO 1141:2012; EN ISO 1141:2012)  
Fibre ropes – Polyester – 3-, 4-, 8- and 12- strand ropes (ISO 1141:2012; EN ISO 1141:2012)
- HRN EN ISO 1346:2012 en pr  
Vlaknasta užad – Polipropilensko vrpčasto vlakno, monofilament i multifilament (PP2) te polipropilensko vlakno visoke čvrstoće multifilament (PP3) – 3-, 4-, 8- i 12-struka užad (ISO 1346:2012; EN ISO 1346:2012)  
Fibre ropes – Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high tenacity multifilament (PP3) – 3-, 4-, 8- and 12- strand ropes (ISO 1346:2012; EN ISO 1346:2012)
- HRN EN 14362-3:2012 en pr  
Tekstil – Metode za određivanje određenih aromatskih amina izdvojenih iz azo bojila – 3. dio: Dokazivanje uporabe određenih azo bojila koja mogu otpustiti 4-aminoazobenzen (EN 14362-3:2012)  
Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 3: Detection of the use of certain azo colorants which may release 4-aminoazobenzene (EN 14362-3:2012)
- HRN EN 15618:2012 en pr  
Plošni tekstil naslojen gumom ili plastikom – Plošni tekstil za namještaj – Razredba i metode ispitivanja (EN 15618:2009+A1:2012)  
Rubber- or plastic-coated fabrics – Upholstery fabrics – Classification and methods of test (EN 15618:2009+A1:2012)
- HRN EN ISO 30023:2012 en pr  
Tekstil – Odgovarajući simboli za označavanje radne odjeće koja se pere u industrijskim praonicama (ISO 30023:2010; EN ISO 30023:2012)  
Textiles – Qualification symbols for labelling workwear to be industrially laundered (ISO 30023:2010; EN ISO 30023:2012)

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

- HRN EN ISO 10156:2010/Ispr.1:2012 en pr  
Plinovi i plinske smjese – Određivanje zapaljivosti i oksidacijskih svojstava za odabir priključaka za ventile na bocama – Tehnički ispravak 1 (ISO 10156:2010/Cor 1:2010; EN ISO 10156:2010/AC:2010)  
Gases and gas mixtures – Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets – Technical Corrigendum 1 (ISO 10156:2010/Cor 1:2010; EN ISO 10156:2010/AC:2010)
- HRN EN ISO 11117:2008/Ispr.1:2012 en pr  
Plinske boce – Zaštitne kape ventila i štitnici ventila – Projektiranje, izrada i ispitivanja – Ispravak 1 (ISO 11117:2008/Cor 1:2009; EN ISO 11117:2008/AC:2010)  
Gas cylinders – Valve protection caps and valve guards – Design, construction and tests – Technical Corrigendum 1 (ISO 11117:2008/Cor 1:2009; EN ISO 11117:2008/AC:2010)
- HRN EN ISO 11363-1:2010/Ispr.1:2012 en pr  
Plinske boce – 17E i 25E konusni navoj za spajanje ventila na plinske boce – 1. dio: Specifikacije – Tehnički ispravak 2 (ISO 11363-1:2010/Cor 2:2012; EN ISO 11363-1:2010/AC:2012)

- Gas cylinders – 17E and 25E taper threads for connection of valves to gas cylinders – Part 1: Specifications – Technical Corrigendum 2 (ISO 11363-1:2010/Cor 2:2012; EN ISO 11363-1:2010/AC:2012)
- HRN EN 13445-2:2009/A1:2012 en pr  
Neložene tlačne posude – 2. dio: Materijali (EN 13445-2:2009/A1:2012)  
Unfired pressure vessels – Part 2: Materials (EN 13445-2:2009/A1:2012)
- HRN EN 13445-2:2009/A2:2012 en pr  
Neložene tlačne posude – 2. dio: Materijali (EN 13445-2:2009/A2:2012)  
Unfired pressure vessels – Part 2: Materials (EN 13445-2:2009/A2:2012)
- HRN EN 13445-3:2009/A1:2012 en pr  
Neložene tlačne posude – 3. dio: Projektiranje (EN 13445-3:2009/A1:2012)  
Unfired pressure vessels – Part 3: Design (EN 13445-3:2009/A1:2012)
- HRN EN 13480-3:2012 en pr  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2012)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2012)
- HRN EN 13480-4:2012 en pr  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2012)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2012)
- HRN EN 13480-5:2012 en pr  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2012)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2012)
- HRN EN 13480-8:2012 en pr  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminijske i aluminijskih legura (EN 13480-8:2012)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2012)
- HRN EN 13799:2012 en pr  
Oprema i pribor za UNP – Nivokazi za spremnike za ukapljeni naftni plin (UNP) (EN 13799:2012)  
LPG equipment and accessories – Contents gauges for Liquefied Petroleum Gas (LPG) pressure vessels (EN 13799:2012)
- HRN EN 14638-3:2010/Ispr.1:2012 en pr  
Prenosive plinske boce – Ponovno punjive, zavarene boce volumena do 150 litara – 3. dio: Zavarene boce od ugljičnog čelika izrađene prema projektu potvrđenom eksperimentalnim metodama (EN 14638-3:2010/AC:2012)  
Transportable gas cylinders – Refillable welded receptacles of a capacity not exceeding 150 litres – Part 3: Welded carbon steel cylinders made to a design justified by experimental methods (EN 14638-3:2010/AC:2012)
- HRN EN 14678-2:2012 en pr  
Oprema i pribor za UNP – Oprema za ukapljeni naftni plin na stanicama za punjenje motornih vozila – 2. dio: Dijelovi osim uređaja za istakanje i zahtjevi ugradnje (EN 14678-2:2007+A1:2012)  
LPG equipment and accessories – Construction and performance of LPG equipment for automotive filling stations – Part 2: Components other than dispensers and installation requirements (EN 14678-2:2007+A1:2012)
- HRN EN 15202:2012 en pr  
Oprema i pribor za UNP – Osnovne dimenzije priključaka za ventile na bocama za UNP i pripadajućih priključaka za opremu (EN 15202:2012)
- LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections (EN 15202:2012)
- HRN EN 15609:2012 en pr  
Oprema i pribor za UNP – Pogonski sustavi na UNP za brodove, jahte i ostala plovila (EN 15609:2012)  
LPG equipment and accessories – LPG propulsion systems for boats, yachts and other craft (EN 15609:2012)
- HZN/TO E13, Oprema za mjerenje električne energije te upravljanje tarifom i potrošnjom**
- HRI CLC/TR 50579:2012 en pr  
Oprema za mjerenje električne energije – Razine predostrožnosti, zahtjevi na otpornost i ispitne metode za poremećaje u frekvencijskom opsegu od 2 do 150 kHz (CLC/TR 50579:2012)  
Electricity metering equipment (a.c.) – Severity levels, immunity requirements and test methods for conducted disturbances in the frequency range 2 kHz – 150 kHz (CLC/TR 50579:2012)
- HRN EN 62059-32-1:2012 en pr  
Oprema za mjerenje električne energije – Ovisnost – Dio 32-1: Trajnost – Ispitivanje postojanosti (stabilnosti) metroloških značajki primjenom povišene temperature (IEC 62059-32-1:2011; EN 62059-32-1:2012)  
Electricity metering equipment – Dependability – Part 32-1: Durability – Testing of the stability of metrological characteristics by applying elevated temperature (IEC 62059-32-1:2011; EN 62059-32-1:2012)
- HZN/TO E22, Energetska elektronika**
- HRN EN 61148:2012 en pr  
Oznake priključaka ventilskih slogova i sklopova i priključaka pretvaračke opreme (IEC 61148:2011; EN 61148:2012)  
Terminal markings for valve device stacks and assemblies and for power conversion equipment (IEC 61148:2011; EN 61148:2012)
- HRN EN 61800-3:2008/A1:2012 en pr  
Elektromotorni sustavi prilagodljive brzine – 3. dio: Zahtjevi za elektromagnetsku kompatibilnost (EMC) i posebne metode ispitivanja (IEC 61800-3:2004/am1:2011; EN 61800-3:2004/A1:2012)  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods (IEC 61800-3:2004/am1:2011; EN 61800-3:2004/A1:2012)
- HZN/TO E62, Električna oprema u medicinskoj praksi**
- HRN EN 60601-2-52:2011/Ispr.1:2012 en pr  
Medicinski električni uređaji – Dio 2-52: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke medicinskih kreveta (EN 60601-2-52:2010/AC:2011)  
Medical electrical equipment – Part 2-52: Particular requirements for basic safety and essential performance of medical beds (EN 60601-2-52:2010/AC:2011)
- HZN/TO E72, Naprave za automatsko upravljanje u kućanstvu**
- HRN EN 60730-2-7:2011/Ispr.1:2012 en pr  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – Dio 2-7: Posebni zahtjevi za programatore i vremenske sklopke (EN 60730-2-7:2010/AC:2011)  
Automatic electrical controls for household and similar use – Part 2-7: Particular requirements for timers and time switches (EN 60730-2-7:2010/AC:2011)

## **HZN/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije**

HRN EN 60950-1:2007/Ispr.1:2012 en pr  
Oprema informacijske tehnologije – Sigurnost – 1. dio: Opći zahtjevi (EN 60950-1:2006/AC:2011)  
Information technology equipment – Safety – Part 1: General requirements (EN 60950-1:2006/AC:2011)

HRI IEC/TR 62368-2:2012 en pr  
Oprema audio/video, informacijske i komunikacijske tehnologije – Objasnidbene informacije koje se odnose na IEC 62368-1 (IEC/TR 62368-2:2011)  
Audio/video, information and communication technology equipment – Part 2: Explanatory information related to IEC 62368-1 (IEC/TR 62368-2:2011)

HRS CLC/TS 62441:2012 en pr  
Zaštitne naprave protiv zapaljenja audio, video i komunikacijske opreme te opreme informacijske tehnologije slučajno izazvanog plamenom svijeće (IEC/TS 62441:2011; CLC/TS 62441:2012)  
Safeguards against accidentally caused candle flame ignition for audio/video, communication and information technology equipment (IEC/TS 62441:2011; CLC/TS 62441:2012)

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

HRN EN 60118-13:2012 en pr  
Elektroakustika – Slušna pomagala – 13. dio: Elektromagnetska kompatibilnost (EMC) (IEC 60118-13:2011; EN 60118-13:2011)  
Electroacoustics – Hearing aids – Part 13: Electromagnetic compatibility (EMC) (IEC 60118-13:2011; EN 60118-13:2011)

HRN EN 60118-15:2012 en pr  
Elektroakustika – Slušna pomagala – 15. dio: Metode za određivanje svojstava procesiranja signala u slušnim pomagalima s pomoću signala sličnoga govoru (IEC 60118-15:2012; EN 60118-15:2012)  
Electroacoustics – Hearing aids – Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal (IEC 60118-15:2012; EN 60118-15:2012)

HRN EN 60318-1:2012 en pr  
Elektroakustika – Simulatori ljudske glave i uha – 1. dio: Simulator uha za mjerenje slušalica koje potpuno i djelomično pokrivaju uho (IEC 60318-1:2009; EN 60318-1:2009)  
Electroacoustics – Simulators of human head and ear – Part 1: Ear simulator for the measurement of supra-aural and circumaural earphones (IEC 60318-1:2009; EN 60318-1:2009)

HRN EN 60318-4:2012 en pr  
Elektroakustika – Simulatori ljudske glave i uha – 4. dio: Zatvoreni simulator uha za mjerenje slušalica spojenih na uho s pomoću ušnih umetaka (IEC 60318-4:2010; EN 60318-4:2010)  
Electroacoustics – Simulators of human head and ear – Part 4: Occluded-ear simulator for the measurement of earphones coupled to the ear by means of ear inserts (IEC 60318-4:2010; EN 60318-4:2010)

HRN EN 61094-2:2012 en pr  
Elektroakustika – Mjerni mikrofoni – 2. dio: Primarna metoda za laboratorijsku kalibraciju mjernih mikrofona tehnikom recipročnosti (IEC 61094-2:2009; EN 61094-2:2009)  
Electroacoustics – Measurement microphones – Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique (IEC 61094-2:2009; EN 61094-2:2009)

HRN EN 61391-2:2012 en pr  
Ultrazvuk – Ultrazvučni skeneri koji rade na načelu odjeka – 2. dio: Mjerenje najveće dubine prodiranja i određivanje lokalnoga dinamičkog područja (IEC 61391-2:2010; EN 61391-2:2010)  
Ultrasonics – Pulse-echo scanners – Part 2: Measurement of maximum depth of penetration and local dynamic range (IEC 61391-2:2010; EN 61391-2:2010)

HRN EN 62359:2012 en pr  
Ultrazvuk – Određivanje svojstava polja – Metode ispitivanja za određivanje toplinskih i mehaničkih pokazatelja povezanih s medicinskim dijagnostičkim ultrazvučnim poljima (IEC 62359:2010; EN 62359:2011)  
Ultrasonics – Field characterization – Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields (IEC 62359:2010; EN 62359:2011)

HRN EN 62489-1:2012 en pr  
Elektroakustika – Sustavi s indukcijskim petljama kao slušna pripomoć u audiofrekvencijskome području – 1. dio: Metode mjerenja i određivanje mogućnosti sastavnice sustava (IEC 62489-1:2010; EN 62489-1:2010)  
Electroacoustics – Audio-frequency induction loop systems for assisted hearing – Part 1: Methods of measuring and specifying the performance of system components (IEC 62489-1:2010; EN 62489-1:2010)

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

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

HRI CLC/TR 50173-99-3:2012 en pr  
Informacijska tehnologija – Generički sustavi kabliranja – Dio 99-3: Infrastruktura kabliranja stambenih prostora duljine do 50 m za istovremenu i neistovremenu podršku aplikacija (CLC/TR 50173-99-3:2012)  
Information technology – Generic cabling systems – Part 99-3: Home cabling infrastructures up to 50 m in length to support simultaneous and non simultaneous provision of applications (CLC/TR 50173-99-3:2012)

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

HRN EN ISO/IEC 15415:2008/Ispr.1:2012 en pr  
Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacija za provjeru kakvoće tiskanja crtičnoga koda – Dvodimenzionalni znakovi (ISO/IEC 15415:2004/Cor 1:2008; EN ISO/IEC 15415:2005/AC:2011)  
Information technology – Automatic identification and data capture techniques – Bar code print quality test specification – Two-dimensional symbols – Technical Corrigendum 1 (ISO/IEC 15415:2004/Cor 1:2008; EN ISO/IEC 15415:2005/AC:2011)

- HRN EN ISO/IEC 15426-2:2008/Ispr.1:2012 en pr  
 Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacija sukladnosti uređaja za provjeru crtičnoga koda – 2. dio: Dvodimenzionalni znakovi (ISO/IEC 15426-2:2005/Cor 1:2008; EN ISO/IEC 15426-2:2006/AC:2011)  
 Information technology – Automatic identification and data capture techniques – Bar code verifier conformance specification – Part 2: Two-dimensional symbols – Technical Corrigendum 1 (ISO/IEC 15426-2:2005/Cor 1:2008; EN ISO/IEC 15426-2:2006/AC:2011)
- HRN EN ISO/IEC 19762-1:2012 en pr  
 Informacijska tehnologija – Tehnike automatske identifikacije i prikupljanja podataka (AIDC) – Harmonizirani rječnik – 1. dio: Općeniti pojmovi koji se odnose na AIDC (ISO/IEC 19762-1:2008; EN ISO/IEC 19762-1:2012)  
 Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary – Part 1: General terms relating to AIDC (ISO/IEC 19762-1:2008; EN ISO/IEC 19762-1:2012)
- HRN EN ISO/IEC 19762-3:2012 en pr  
 Informacijska tehnologija – Tehnike automatske identifikacije i prikupljanja podataka (AIDC) – Harmonizirani rječnik – 3. dio: Identifikacija radijskim frekvencijama (RFID) (ISO/IEC 19762-3:2008; EN ISO/IEC 19762-3:2012)  
 Information technology – Automatic identification and data capture (AIDC) techniques – Harmonized vocabulary – Part 3: Radio frequency identification (RFID) (ISO/IEC 19762-3:2008; EN ISO/IEC 19762-3:2012)

#### **HZNTU S1, Zdravlje, okoliš i medicinska oprema 1**

- HRN EN ISO 1135-4:2012 en pr  
 Transfusion equipment for medical use – Part 4: Transfusion sets for single use (ISO 1135-4:2012; EN ISO 1135-4:2012)
- HRN EN 1642:2012 en pr  
 Dentistry – Medical devices for dentistry – Dental implants (EN 1642:2011)
- HRN EN ISO 14602:2012 en pr  
 Non-active surgical implants – Implants for osteosynthesis – Particular requirements (ISO 14602:2010; EN ISO 14602:2011)
- HRN EN ISO 15747:2012 en pr  
 Plastic containers for intravenous injections (ISO 15747:2010; EN ISO 15747:2011)

#### **HZNTU T1, Prijevoz, rukovanje materijalima i pakiranje 1**

- HRN EN 2213:2012 en pr  
 Aerospace series – Steel FE-PL1505 (15CrMoV6) – Air melted – Hardened and tempered – Bars –  $D_e = 16$  mm – 980 MPa =  $R_m = 1180$  MPa (EN 2213:2012)
- HRN EN 2234:2012 en pr  
 Aerospace series – Cable, electrical, fire resistant – Technical specification (EN 2234:2012)
- HRN EN 2240-100:2012 en pr  
 Aerospace series – Lamps, incandescent – Part 100: Lamp, code 2078 – Product standard (EN 2240-100:2011)
- HRN EN 2240-101:2012 en pr  
 Aerospace series – Lamps, incandescent – Part 101: Lamp, code 404-02 – Product standard (EN 2240-101:2011)
- HRN EN 2245:2012 en pr  
 Aerospace series – Pipelines for liquids and gases – Definitions (EN 2245:2012)
- HRN EN 2252:2012 en pr  
 Aerospace series – Steel FE-PL1505 (15CrMoV6) – 1080 MPa =  $R_m = 1250$  MPa – Forgings –  $D_e = 100$  mm (EN 2252:2012)

- HRN EN 2311:2012 en pr  
 Aerospace series – Bushes with self-lubricating liner – Technical specification (EN 2311:2012)
- HRN EN 2835:2012 en pr  
 Aerospace series – Chloroprene rubber (CR) – Heat resistance – Hardness 40 IRHD (EN 2835:2012)
- HRN EN 2836:2012 en pr  
 Aerospace series – Chloroprene rubber (CR) – Heat resistance – Hardness 50 IRHD (EN 2836:2012)
- HRN EN 2837:2012 en pr  
 Aerospace series – Chloroprene rubber (CR) – Heat resistance – Hardness 60 IRHD (EN 2837:2012)
- HRN EN 2997-002:2012 en pr  
 Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 002: Specification of performance and contact arrangements (EN 2997-002:2012)
- HRN EN 3120:2012 en pr  
 Aerospace series – Titanium alloy Ti-P64003 – Cold worked and stress relieved – Seamless tube for pressure systems – 4 mm =  $D = 51$  mm – 690 MPa =  $R_m = 1030$  MPa (EN 3120:2012)
- HRN EN 3155-035:2012 en pr  
 Aerospace series – Electrical contacts used in elements of connection – Part 035: Contacts, electrical, triaxial, size 08, female, type D, crimp, class R – Product standard (EN 3155-035:2012)
- HRN EN 3155-076:2012 en pr  
 Aerospace series – Electrical contacts used in elements of connection – Part 076: Contacts, electrical, male, type A, crimp, class R – Product standard (EN 3155-076:2012)
- HRN EN 3155-077:2012 en pr  
 Aerospace series – Electrical contacts used in elements of connection – Part 077: Contacts, electrical, female, type A, crimp, class R – Product standard (EN 3155-077:2012)
- HRN EN 3182:2012 en pr  
 Aerospace series – Ball bearings, rigid in corrosion resisting steel cadmium plated, for control cable pulleys – Dimensions and loads (EN 3182:2012)
- HRN EN 3278:2012 en pr  
 Aerospace series – Sleeves, tubular, protruding head, in corrosion resisting steel, passivated (0,25 mm wall thickness) (EN 3278:2012)
- HRN EN 3312:2012 en pr  
 Aerospace series – Titanium alloy Ti-6Al-4V – Annealed – Forgings  $D_e = 150$  mm (EN 3312:2012)
- HRN EN 3355:2012 en pr  
 Aerospace series – Titanium alloy Ti-P64001 (Ti-6Al-4V) – Annealed – Extruded section –  $D_e = 150$  mm – 900 MPa =  $R_m = 1160$  MPa (EN 3355:2012)
- HRN EN 3373-007:2012 en pr  
 Aerospace series – Terminal lugs and in-line splices for crimping on electric conductors – Part 007: Nickel plated aluminium terminal lugs for crimping on nickel plated aluminium cable for inch series studs – Product standard (EN 3373-007:2012)
- HRN EN 3373-008:2012 en pr  
 Aerospace series – Terminal lugs and in-line splices for crimping on electric conductors – Part 008: Copper lugs nickel plated ring shaped for copper conductors nickel plated for inch series studs up to 340 °C – Product standard (EN 3373-008:2012)
- HRN EN 3375-002:2012 en pr  
 Aerospace series – Cable, electrical, for digital data transmission – Part 002: General (EN 3375-002:2012)



- HRN EN 3382:2012 en pr  
Aerospace series – Rings retaining, internal, axial mounting, steel, phosphated (EN 3382:2012)
- HRN EN 3383:2012 en pr  
Aerospace series – Rings retaining, internal, axial mounting, steel, vacuum cadmium plated (EN 3383:2012)
- HRN EN 3384:2012 en pr  
Aerospace series – Rings retaining, external, axial mounting, steel, phosphated (EN 3384:2012)
- HRN EN 3385:2012 en pr  
Aerospace series – Rings retaining, external, axial mounting, steel, vacuum cadmium plated (EN 3385:2012)
- HRN EN 3386:2012 en pr  
Aerospace series – Rings retaining, radial mounting, steel, phosphated (EN 3386:2012)
- HRN EN 3417:2012 en pr  
Aerospace series – Rivets, solid, universal head, in nickel base alloy NI-P11, metric series (EN 3417:2012)
- HRN EN 3475-505:2012 en pr  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 505: Tensile test on conductors and strands (EN 3475-505:2012)
- HRN EN 3706:2012 en pr  
Aerospace series – Headless threaded plugs, cross recess, in aluminium alloy 5086 (EN 3706:2012)
- HRN EN 3707:2012 en pr  
Aerospace series – Headless threaded plugs – Installation holes (EN 3707:2012)
- HRN EN 3718:2012 en pr  
Aerospace series – Test method for metallic materials – Ultrasonic inspection of tubes (EN 3718:2012)
- HRN EN 3768:2012 en pr  
Aerospace series – Nuts, anchor, self-locking, one lug, fixed, reduced series, with counterbore, in heat resisting steel, MoS2 lubricated – Classification: 1100 MPa (at ambient temperature)/315 °C (EN 3768:2012)
- HRN EN 4159:2012 en pr  
Aerospace series – Paints and varnishes – Determination of resistance to microbial growth (EN 4159:2011)
- HRN EN 4165-025:2012 en pr  
Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 025: Module receptacle – Product Standard (EN 4165-025:2011)
- HRN EN 4171:2012 en pr  
Aerospace series – Paints and varnishes – Test method for determination of phosphoric acid index (EN 4171:2011)
- HRN EN 4195:2012 en pr  
Aerospace series – Paints and varnishes – Test method for determination of chromate leaching (EN 4195:2011)
- HRN EN 4443:2012 en pr  
Aerospace series – Nuts, elliptical clinch, self-locking, MJ threads, in heat resisting steel FE-PA2601 (A286), MoS2 coated, Classification: 900 MPa (at ambient temperature)/ 425 °C (EN 4443:2012)
- HRN EN 4540:2012 en pr  
Aerospace series – Bearings, spherical plain, in corrosion resisting steel with self-lubricating liner elevated load under low oscillations – Technical specification (EN 4540:2011)
- HRN EN 4608-003:2012 en pr  
Aerospace series – Cable, electrical, fire resistant – Single and twisted multicore assembly, screened (braided) and jacketed – Operating temperatures between -65 °C and 260 °C – Part 003: DN family – Lightweight – UV Laser printable – Product standard (EN 4608-003:2012)
- HRN EN 4608-005:2012 en pr  
Aerospace series – Cable, electrical, fire resistant – Single and twisted multicore assembly, screened (braided) and jacketed – Operating temperatures between -65 °C and 260 °C – Part 005: DW family – Lightweight two-core gauge 24 for data transmission – UV laser printable – Product standard (EN 4608-005:2012)
- HRN EN 4611-002:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 002: General (EN 4611-002:2012)
- HRN EN 4611-003:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 003: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Single extruded wall for enclosed applications – UV laser printable – Product standard (EN 4611-003:2012)
- HRN EN 4611-004:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 004: Tin plated copper – Operating temperatures, between -65 °C and 135 °C – Dual extruded wall for open applications – UV laser printable – Product standard (EN 4611-004:2012)
- HRN EN 4611-005:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 005: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Single extruded wall for enclosed applications – UV laser printable – Product standard (EN 4611-005:2012)
- HRN EN 4611-006:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 006: Silver plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications – UV laser printable – Product standard (EN 4611-006:2012)
- HRN EN 4611-007:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 007: Nickel plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications – UV laser printable – Product standard (EN 4611-007:2012)
- HRN EN 4611-008:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 008: BP – Nickel plated copper – Operating temperatures, between -65 °C and 150 °C – Dual extruded wall for open applications with additional protection in areas of high vibration, cable flexing and fluid contamination – UV laser printable – Product standard (EN 4611-008:2012)
- HRN EN 4611-009:2012 en pr  
Aerospace series – Cables, electrical, for general purpose, single and multicore assembly – XLETFE Family – Part 009: BJ – Nickel plated copper – Operating temperatures, between -65 °C and 150 °C – Single extruded wall for use as cable cores or within equipment in areas of high vibration, cable flexing and fluid contamination – UV laser printable – Product standard (EN 4611-009:2012)
- HRN EN 4687:2012 en pr  
Aerospace series – Paints and varnishes – Chromate free non corrosion inhibiting two components cold curing primer for military application (EN 4687:2012)
- HRN EN 4688:2012 en pr  
Aerospace series – Paints and varnishes – Corrosion inhibiting two components cold curing primer for military application (EN 4688:2012)

- HRN EN 4689:2012 en pr  
Aerospace series – Paints and varnishes – Two components cold curing polyurethane finish – High flexibility and chemical agent resistance for military application (EN 4689:2012)
- HRN EN 4704:2012 en pr  
Aerospace series – Tartaric-Sulphuric-Acid anodizing of aluminium and aluminium wrought alloys for corrosion protection and paint pre-treatment (TSA) (EN 4704:2012)
- HRN EN 6049-006:2012 en pr  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 006: Self-wrapping protective sleeve, flexible post installation – Product standard (EN 6049-006:2012)
- HRN EN 6049-007:2012 en pr  
Aerospace series – Electrical cables, installation – Protection sleeve in meta-aramid fibres – Part 007: Self-wrapping protective sleeve, flexible post installation operating temperature from – 55 °C to 260 °C – Product standard (EN 6049-007:2012)
- HRN EN 6059-100:2012 en pr  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 100: General (EN 6059-100:2011)
- HRN EN 6059-503:2012 en pr  
Aerospace series – Electrical cables, installation – Protection sleeves – Test methods – Part 503: Temperature rise due to rated current injected on the sleeve (EN 6059-503:2012)
- HRN EN 9137:2012 en pr  
Quality management systems – Guidance for the Application of AQAP 2110 within an EN 9100 Quality Management System (EN 9137:2012)
- HRN EN 15997:2012 en pr  
All terrain vehicles (ATVs - Quads) – Safety requirements and test methods (EN 15997:2011)
- HRS CEN/TS 16165:2012 en pr  
Determination of slip resistance of pedestrian surfaces – Methods of evaluation (CEN/TS 16165:2012)

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

- HRN EN 50293:2012 en pr  
Signalni sustavi cestovnog prometa – Elektromagnetska kompatibilnost (EN 50293:2012)  
Road traffic signal systems – Electromagnetic compatibility (EN 50293:2012)

## 1.2 Nacrti hrvatskih norma

Temeljem Zakona o normizaciji (Narodne novine 163/03) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o nacrtima hrvatskih norma (oznaka nHRN). Pisane primjedbe na nacrt hrvatskih norma dostavljaju se Hrvatskom zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku nacrt 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 zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

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

- nHRN ISO 6107-6 hr,en,fr,ru pp  
Kvaliteta vode – Terminološki rječnik – 6. dio (ISO 6107-6:2004)  
Water quality – Vocabulary – Part 6 (ISO 6107-6:2004)

## 1.3 Prijedlozi za prihvaćanje stranih norma u izvorniku

Temeljem Zakona o normizaciji (Narodne novine 163/03) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.

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

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

- prEN 877 rev en  
Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings – Requirements, test methods and quality assurance  
Lijevano-željezne cijevi i spojni dijelovi, njihovi spojevi i pribor za kanalizaciju (odvodnju vode iz zgrada) – Zahtjevi, metode ispitivanja i osiguranje kvalitete
- prEN 1591-1 rev en  
Flanges and their joints – Design rules for gasketed circular flange connections – Part 1: Calculation
- prEN 12560-2 en  
Flanges and their joints – Dimensions of gaskets for Class-designated flanges – Part 2: Spiral wound gaskets for use with steel flanges

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

- EN ISO 536:2012 en  
Paper and board – Determination of grammage (ISO 536:2012)  
Papir i karton – Određivanje gramature (ISO 536:2012)
- prEN 16418 en  
Paper and board – Determination of the cytotoxicity of aqueous extracts using a metabolically competent hepatoma cell line (HepG2)  
Papir i karton – Određivanje citotoksičnosti vodenih otopina uporabom metaboličke linije jetrenih stanica (HepG2)

### HZN/TO 8, *Brodogradnja*

- prEN ISO 7840 en  
Small craft – Fire-resistant fuel hoses (ISO/DIS 7840:2012)  
Mala plovila – Vatrootporne savitljive cijevi za gorivo (ISO/DIS 7840:2012)
- prEN ISO 8469 en  
Small craft – Non-fire-resistant fuel hoses (ISO/DIS 8469:2012)  
Mala plovila – Savitljive cijevi za gorivo neotporne na vatru (ISO/DIS 8469:2012)
- prEN ISO 10088 rev en  
Small craft – Permanently installed fuel systems (ISO/DIS 10088:2012)  
Mala plovila – Trajno ugrađeni sustavi goriva (ISO/DIS 10088:2012)
- EN ISO 16147:2002/prA1 en  
Small craft – Inboard diesel engines – Engine-mounted fuel and electrical components – Amendment 1 (ISO 16147:2002/DAM 1:2012)  
Mala plovila – Ugrađeni dizelski motori – Komponente sustava goriva i elektroređajča ovješene na motor – Amandman 1 (ISO 16147:2002/DAM 1:2012)

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

- prEN 54-10 rev en  
Fire detection and fire alarm systems – Part 10: Flame detectors – Point detectors  
Sustavi za otkrivanje i dojavu požara – 10. dio: Detektori plamena – Točkasti detektori

- prEN 54-31 en  
Fire detection and fire alarm system – Part 31: Multi-sensor fire detectors – Point detectors using a combination of smoke, carbon monoxide and optionally heat sensors
- EN 1846-2:2009/FprA1 en  
Firefighting and rescue service vehicles – Part 2: Common requirements – Safety and performance  
Vozila za gašenje požara i spašavanje – 2. dio: Opći zahtjevi – Sigurnost i svojstva
- EN ISO 5923:2012 en  
Equipment for fire protection and fire fighting – Fire extinguishing media – Carbon dioxide (ISO 5923:2012)
- FprEN 12101-2 rev en  
Smoke and heat control systems – Part 2: Natural smoke and heat exhaust ventilators
- EN 13204:2004+A1:2012 en  
Double acting hydraulic rescue tools for fire and rescue service use – Safety and performance requirements  
Dvoradni hidraulični alati za spašavanje za uporabu pri gašenju požara i spašavanju – Zahtjevi za sigurnost i svojstva

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

- prEN 690 en  
Agricultural machinery – Manure spreaders – Safety  
Poljoprivredna mehanizacija – Razbacivači gnojiva – Sigurnost
- prEN ISO 5395-1 en  
Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 1: Terminology and common tests (ISO/DIS 5395-1:2012)
- prEN ISO 5395-2 en  
Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 2: Pedestrian-controlled lawnmowers (ISO/DIS 5395-2:2012)
- prEN ISO 5395-3 en  
Garden equipment – Safety requirements for combustion-engine-powered lawnmowers – Part 3: Ride-on lawnmowers (ISO/DIS 5395-3:2012)
- EN 15503:2009/prA1 en  
Garden equipment – Garden blowers, vacuums and blower/vacuums – Safety

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

- prEN ISO 5163 en  
Petroleum products – Determination of knock characteristics of motor and aviation fuels – Motor method (ISO/DIS 5163:2012)  
Naftni proizvodi – Određivanje karakteristika detonantnog izgaranja motornih i avionskih goriva – Motorna metoda (ISO/DIS 5163:2012)
- prEN ISO 5164 en  
Petroleum products – Determination of knock characteristics of motor fuels – Research method (ISO/DIS 5164:2012)  
Naftni proizvodi – Određivanje karakteristika detonantnog izgaranja motornih goriva – Istraživačka metoda (ISO/DIS 5164:2012)
- prEN 15721 en  
Ethanol as a blending component for petrol – Determination of higher alcohols, methanol and volatile impurities – Gas chromatographic method  
Etanol kao komponenta koja se namješava u benzin – Određivanje viših alkohola, metanola i isparivih nečistoća – Metoda plinske kromatografije
- FprCEN/TS 15940 en  
Automotive fuels – Paraffinic diesel fuel from synthesis or hydrotreatment – Requirements and test methods  
Goriva za motorna vozila – Parafinska dizelska goriva dobivena sintezom ili hidrobradom – Zahtjevi i metode ispitivanja

- prEN 16423 en  
Liquefied petroleum gases – Determination of dissolved residue – Gas chromatographic method using liquid, on-column injection  
Ukapljeni naftni plinovi – Određivanje ostatka isparavanja – Metoda plinske kromatografije s kolonskim injektorom

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

- prEN ISO 3233-2 en  
Paints and varnishes – Determination of the percentage volume of non-volatile matter – Part 2: Determination by measurement of the dry-film density (ISO/DIS 3233-2:2012)
- EN ISO 9227:2012 en  
Corrosion tests in artificial atmospheres – Salt spray tests (ISO 9227:2012)  
Ispitivanje korozije u umjetnoj atmosferi – Metoda ispitivanja u slanoj komori (ISO 9227:2012)
- prEN 12878 en  
Pigments for the colouring of building materials based on cement and/or lime – Specifications and methods of test  
Pigmenti za bojenje građevnih materijala na bazi cementa i/ili vapna – Specifikacije i metode ispitivanja
- prEN 13438 rev en  
Paints and varnishes – Powder organic coatings for galvanized or sherardized steel products for construction purposes  
Boje i lakovi – Praškaste organske prevlake za galvanizirane ili šerardizirane čelične proizvode namijenjene za konstrukcije
- prEN 16402 en  
Assessment of emissions of regulated dangerous substances from coatings into indoor air – Sampling, conditioning and testing
- prEN ISO 16925 en  
Paints and varnishes – Determination of the resistance of coatings to high-pressure water-jetting (ISO/DIS 16925:2012)
- prEN ISO 16927 en  
Paints and varnishes – Determination of the overcoatability and recoatability of a coating (ISO/DIS 16927:2012)

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

- prEN ISO 16283-1 rev en  
Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation (ISO/DIS 16283-1:2012)

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

- FprEN ISO 4136 en  
Destructive tests on welds in metallic materials – Transverse tensile test (ISO/FDIS 4136:2012)  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Poprečno vlačno ispitivanje (ISO/FDIS 4136:2012)
- prEN ISO 5817 en  
Welding – Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) – Quality levels for imperfections (ISO/DIS 5817:2012)  
Zavarivanje – Zavareni spojevi nastali taljenjem u čeliku, niklu, titanu i njihovim legurama (osim zavarivanja elektronskim snopom i laserom) – Razine kvalitete s obzirom na nepravilnosti (ISO/DIS 5817:2012)
- prEN ISO 5826 rev en  
Resistance welding equipment – Transformers – General specifications applicable to all transformers (ISO/DIS 5826:2012)  
Oprema za elektrootporno zavarivanje – Transformatori – Opće specifikacije primjenjive na sve transformatore (ISO/DIS 5826:2012)

FprEN ISO 8205-3 en  
Water-cooled secondary connection cables for resistance welding – Part 3: Test requirements (ISO/FDIS 8205-3:2012)  
Vodom hlađeni sekundarni spojni kabeli za elektrootporno zavarivanje – 3. dio: Ispitni zahtjevi (ISO/FDIS 8205-3:2012)

FprEN ISO 9016 en  
Destructive tests on welds in metallic materials – Impact tests – Test specimen location, notch orientation and examination (ISO/FDIS 9016:2012)  
Razorna ispitivanja zavarenih spojeva na metalnim materijalima – Ispitivanje udarnog rada loma – Položaj ispitnog uzorka, položaj zareza i ispitivanje (ISO/FDIS 9016:2012)

EN ISO 9539:2010/prA1 en  
Gas welding equipment – Materials for equipment used in gas welding, cutting and allied processes – Amendment 1 (ISO 9539:2010/DAM 1:2012)  
Oprema za plinsko zavarivanje – Materijali za opremu koja se upotrebljava pri plinskom zavarivanju, rezanju i srodnim postupcima (ISO 9539:2010/DAM 1:2012)

prEN ISO 14555 rev en  
Welding – Arc stud welding of metallic materials (ISO/DIS 14555:2012)  
Zavarivanje – Elektrolučno zavarivanje svornjaka od metalnih materijala (ISO/DIS 14555:2012)

prEN 14700 en  
Welding consumables – Welding consumables for hard-facing  
Dodatni i potrošni materijali za zavarivanje – Dodatni materijali za tvrdo navarivanje

prEN ISO 14920 en  
Thermal spraying – Spraying and fusing of self-fluxing alloys (ISO/DIS 14920:2012)  
Toplinsko naštrcavanje – Naštrcavanje i spajanje legura koje sadrže talilo (ISO/DIS 14920:2012)

prEN 15339-1 en  
Thermal spraying – Safety requirements for thermal spraying equipment – Part 1: General requirements  
Toplinsko naštrcavanje – Sigurnosni zahtjevi za opremu za toplinsko naštrcavanje – 1. dio: Opći zahtjevi

prEN 15339-3 en  
Thermal spraying – Safety requirements for thermal spraying equipment – Part 3: Torches for thermal spraying and their connection and supply units  
Toplinsko naštrcavanje – Sigurnosni zahtjevi za opremu za toplinsko naštrcavanje – 3. dio: Plamenici i brizgači za toplinsko naštrcavanje i njihovi priključci i jedinice za napajanje

prEN 15339-4 en  
Thermal spraying – Safety requirements for thermal spraying equipment – Part 4: Gas and liquid fuel supply  
Toplinsko naštrcavanje – Sigurnosni zahtjevi za opremu za toplinsko naštrcavanje – 4. dio: Napajanje plinom i tekućim gorivom

prEN 15339-5 en  
Thermal spraying – Safety requirements for thermal spraying equipment – Part 5: Powder and wire feed units  
Toplinsko naštrcavanje – Sigurnosni zahtjevi za opremu za toplinsko naštrcavanje – 5. dio: Uređaji za dodavanje praška i žice

## **HZN/TO 54, Eterična ulja**

prEN ISO 9235 en  
Aromatic natural raw materials – Vocabulary (ISO/DIS 9235:2012)  
Prirodne aromatične sirovine – Rječnik (ISO/DIS 9235:2012)

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

prEN 206 en  
Concrete – Specification, performance, production and conformity

FprEN 12390-1 en  
Testing hardened concrete – Part 1: Shape, dimensions and other requirements for specimens and moulds  
Ispitivanje očvrsloga betona – 1. dio: Oblik, dimenzije i drugi zahtjevi za uzorke i kalupe

prEN 12390-13 en  
Testing hardened concrete – Part 13: Determination of secant modulus of elasticity in compression

FprEN 12504-2 en  
Testing concrete in structures – Part 2: Non-destructive testing – Determination of rebound number  
Ispitivanje betona u konstrukcijama – 2. dio: Nerazorno ispitivanje – Određivanje indeksa sklerometra

CEN/TR 16349:2012 en  
Framework for a specification on the avoidance of a damaging Alkali-Silica Reaction (ASR) in concrete

FprCEN/TR 16369 en  
Use of control charts in the production of concrete

FprCEN/TR 16443 en  
Backgrounds to the revision of EN 450-1:2005+A1:2007 – Fly ash for concrete

## **HZN/TO 74, Cement i vapno**

FprEN 196-2 en  
Methods of testing cement – Part 2: Chemical analysis of cement  
Metode ispitivanja cementa – 2. dio: Kemijska analiza cementa

prEN 197-2 rev en  
Cement – Part 2: Conformity evaluation  
Cement – 2. dio: Vrednovanje sukladnosti

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

prEN 12900 en  
Refrigerant compressors – Rating conditions, tolerances and presentation of manufacturer's performance data  
Rashladni kompresori – Uvjeti razvrstavanja, dopuštena odstupanja i prikaz tvorničkih radnih značajka

## **HZN/TO 92, Zaštita od požara**

FprEN 1365-1 en  
Fire resistance tests for loadbearing elements – Part 1: Walls  
Ispitivanja otpornosti na požar nosivih elemenata – 1. dio: Zidovi

FprEN 1634-1 en  
Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 1: Fire resistance test for door and shutter assemblies and openable windows

prEN 13381-2 en  
Test methods for determining the contribution to the fire resistance of structural members – Part 2: Vertical protective membranes  
Ispitne metode za određivanje doprinosa otpornosti na požar konstrukcijskih elemenata – 2. dio: Vertikalne zaštitne membrane

FprEN 13381-4 en  
Test methods for determining the contribution to the fire resistance of structural members – Part 4: Applied passive protection to steel members

- FprEN 13381-8 en  
Test methods for determining the contribution to the fire resistance of structural members – Part 8: Applied reactive protection to steel members  
Metode ispitivanja za određivanje doprinosa otpornosti na požar konstrukcijskih elemenata – 8. dio: Reaktivna zaštita čeličnih elemenata
- EN 15254-7:2012 en  
Extended application of results from fire resistance tests – Non-loadbearing ceilings – Part 7: Metal sandwich panel construction
- FprEN 15269-2 en  
Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 2: Fire resistance of hinged and pivoted steel doorsets
- prEN 15269-5 en  
Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 5: Fire resistance of hinged and pivoted metal framed glazed doorsets and openable windows
- FprCEN/TS 16459 en  
External Fire Exposure of Roofs and Roof Coverings – EXAP Extended application of test results from CEN/TS 1187

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

- prEN 267 rev en  
Forced draught burners for liquid fuels  
Pretračni plamenici za kapljevita goriva
- FprEN 1860-1 en  
Appliances, solid fuels and firelighters for barbecuing – Part 1: Barbecues burning solid fuels – Requirements and test methods  
Aparati, kruta goriva i sredstva za potpalu za roštiljanje – 1. dio Roštilji na kruta goriva – Zahtjevi i metode ispitivanja
- prEN 16430-1 en  
Fan assisted radiators, convectors and trench convectors – Part 1: Technical specifications and requirements  
Radijatori, konvektori i podni konvektori s ventilatorom – 1. dio: Tehničke specifikacije i zahtjevi
- prEN 16430-2 en  
Fan assisted radiators, convectors and trench convectors – Part 2: Test method and rating for thermal output  
Radijatori, konvektori i podni konvektori s ventilatorom – 2. dio: Metode ispitivanja i određivanje toplinskog učinka
- prEN 16430-3 en  
Fan assisted radiators, convectors and trench convectors – Part 3: Test method and rating for cooling capacity  
Radijatori, konvektori i podni konvektori s ventilatorom – 3. dio: Metode ispitivanja i određivanje rashladnog učinka

### **HZN/TO 120, Koža i obuća**

- prEN ISO 11646 rev en  
Leather – Measurement of area (ISO/DIS 11646:2012)  
Koža – Mjerenje površine (ISO/DIS 11646:2012)
- EN 14602:2012 en  
Footwear – Test methods for the assessment of ecological criteria  
Obuća – Metode ispitivanja za ocjenjivanje ekoloških mjerila

- prEN ISO 16187 en  
Footwear – Test methods for uppers, lining and insoles – Antibacterial activity (ISO/DIS 16187:2012)  
Obuća – Metode ispitivanja gornjišta, podstave i uložnih tabanica – Antimikrobna aktivnost (ISO/DIS 16187:2012)
- prEN 16419 en  
Leather – Chamois leather – Classification and requirements  
Koža – Koža divokože – Klasifikacija i zahtjevi
- prEN ISO 17130 en  
Leather – Physical and mechanical tests – Determination of dimensional change (ISO/DIS 17130:2012)  
Koža – Fizikalna i mehanička ispitivanja – Određivanje promjene dimenzija (ISO/DIS 17130:2012)
- prEN ISO 17489 en  
Leather – Chemical tests – Determination of tan content in tanning agents (ISO/DIS 17489:2012)  
Koža – Kemijska ispitivanja – Određivanje sadržaja štavila u sredstvima za štavljenje (ISO/DIS 17489:2012)
- prEN ISO 17502 en  
Leather – Determination of surface reflectance (ISO/DIS 17502:2012)  
Koža – Određivanje površinske refleksije (ISO/DIS 17502:2012)

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

- prEN ISO 5356-1 en  
Anaesthetic and respiratory equipment – Conical connectors – Part 1: Cones and sockets (ISO/DIS 5356-1:2012)  
Anestetička i respiracijska oprema – Stožasti priključci – 1. dio: Stožasti utikači i utičnice (ISO/DIS 5356-1:2012)
- EN ISO 8359:2009/A1:2012 en  
Oxygen concentrators for medical use – Safety requirements – Amendment 1 (ISO 8359:1996/Amd 1:2012)  
Koncentratori kisika za medicinsku uporabu – Sigurnosni zahtjevi – Amandman 1 (ISO 8359:1996/Amd 1:2012)
- prEN ISO 10079-3 en  
Medical suction equipment – Part 3: Suction equipment powered from a vacuum or positive pressure gas source (ISO/DIS 10079-3:2012)  
Medicinska usisna oprema – 3. dio: Usisna oprema pogonjena vakuumom ili izvorima plina pozitivnog tlaka (ISO/DIS 10079-3:2012)
- prEN ISO 80601-2-67 en  
Medical electrical equipment – Part 2-67: Particular requirements for basic safety and essential performance of oxygen-conserving equipment (ISO/DIS 80601-2-67:2012)  
Medicinski električni uređaji – Dio 2-67: Posebni zahtjevi za osnovnu sigurnost i nužne značajke za spremnike kisika (ISO/DIS 80601-2-67:2012)

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

- FprEN 16195 en  
Fertilizers – Determination of chlorides in the absence of organic material  
Gnojiva – Određivanje klorida u odsutnosti organskog materijala
- FprEN 16196 en  
Fertilizers – Manganometric determination of extracted calcium following precipitation in the form of oxalate  
Gnojiva – Manganometrijsko određivanje ekstrahiranog kalcija nakon taloženja u obliku oksalata
- FprEN 16197 en  
Fertilizers – Determination of magnesium by atomic absorption spectrometry  
Gnojiva – Određivanje magnezija atomskom apsorpcijskom spektrometrijom

- FprEN 16198 en  
Fertilizers – Determination of magnesium by complexometry  
Gnojiva – Određivanje magnezija kompleksometrijski
- FprEN 16199 en  
Fertilizers – Determination of the sodium extracted by flame-emission spectrometry  
Gnojiva – Određivanje ekstrahiranog natrija spektrometrijom emisije plamena

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

- EN 1555-3:2010/FprA1 en  
Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 3: Fittings  
Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 3. dio: Spojnice
- FprCEN/TS 1555-7 en  
Plastics piping systems for the supply of gaseous fuels – Polyethylene (PE) – Part 7: Guidance for the assessment of conformity  
Plastični cijevni sustavi za opskrbu plinovitim gorivima – Polietilen (PE) – 7. dio: Upute za ocjenjivanje sukladnosti
- prEN ISO 11297-1 en  
Plastics piping systems for renovation of underground drainage and sewerage networks under pressure – Part 1: General (ISO/DIS 11297-1:2012)  
Plastični cijevni sustavi za obnavljanje podzemnih tlačnih mreža za odvodnju i kanalizaciju – 1. dio: Općenito (ISO/DIS 11297-1:2012)
- prEN ISO 11297-3 en  
Plastics piping systems for renovation of underground drainage and sewerage networks under pressure – Part 3: Lining with close-fit pipes (ISO/DIS 11297-3:2012)  
Plastični cijevni sustavi za obnavljanje podzemnih tlačnih mreža za odvodnju i kanalizaciju – 3. dio: Obnavljanje s prijanjućim cijevima (ISO/DIS 11297-3:2012)
- EN 12201-2:2011/FprA1 en  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Cijevi
- EN 12201-3:2011/FprA1 en  
Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 3: Fittings  
Plastični tlačni cijevni sustavi za opskrbu vodom, odvodnju i kanalizaciju – Polietilen (PE) – 3. dio: Spojnice
- CEN/TS 12666-2:2012 en  
Plastics piping systems for non-pressure underground drainage and sewerage – Polyethylene (PE) – Part 2: Guidance for the assessment of conformity  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Polietilen (PE) – 2. dio: Smjernice za ocjenjivanje sukladnosti

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

- prEN ISO 13137 en  
Workplace atmospheres – Pumps for personal sampling of chemical and biological agents – Requirements and test methods (ISO/DIS 13137:2012)
- prEN 16413 en  
Air quality – Biomonitoring with lichens – Assessing epiphytic lichen diversity
- prEN 16414 en  
Air quality – Biomonitoring with mosses – Accumulation of atmospheric contaminants in mosses collected in situ: from the collection to the preparation of samples

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

- EN ISO 12570:2000/prA1 en  
Hygrothermal performance of building materials and products – Determination of moisture content by drying at elevated temperature – Amendment 1 (ISO 12570:2000/DAM 1:2012)  
Značajke građevnih materijala i proizvoda s obzirom na toplinu i vlagu – Određivanje vlage sušenjem na povišenoj temperaturi – Amandman 1 (ISO 12570:2000/DAM 1:2012)
- prEN ISO 12571 rev en  
Hygrothermal performance of building materials and products – Determination of hygroscopic sorption properties (ISO/DIS 12571:2012)  
Značajke građevnih materijala i proizvoda s obzirom na toplinu i vlagu – Određivanje svojstava higroskopske sorpcije (ISO/DIS 12571:2012)
- FprEN 15732 en  
Light weight fill and thermal insulation products for civil engineering applications (CEA) – Expanded clay lightweight aggregate products (LWA)
- prEN ISO 15758 en  
Hygrothermal performance of building equipment and industrial installations – Calculation of water vapour diffusion – Cold pipe insulation systems (ISO/DIS 15758:2012)

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

- prEN 336 en  
Structural timber – Sizes, permitted deviations  
Konstrukcijsko drvo – Dimenzije, dopuštena odstupanja
- EN 14081-2:2010/FprA1 en  
Timber structures – Strength graded structural timber with rectangular cross section – Part 2: Machine grading – Additional requirements for initial type testing  
Drvene konstrukcije – Konstrukcijsko drvo pravokutnoga poprečnog presjeka razvrstano prema čvrstoći – 2. dio: Strojno razvrstavanje – Dodatni zahtjevi za početno ispitivanje tipa
- EN 14592:2008+A1:2012 en  
Timber structures – Dowel-type fasteners – Requirements  
Drvene konstrukcije – Štapasta spajala – Zahtjevi

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

- prEN ISO 11553-3 en  
Safety of machinery – Laser processing machines – Part 3: Noise reduction and noise measurement methods for laser processing machines and hand-held processing devices and associated auxiliary equipment (accuracy grade 2) (ISO/DIS 11553-3:2012)

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

- EN 81-21:2009+A1:2012 en  
Safety rules for the construction and installation of lifts – Lifts for the transport of persons and goods – Part 21: New passenger and goods passenger lifts in existing building  
Sigurnosna pravila za konstrukciju i ugradnju dizala – Dizala za transport osoba i tereta – 21. dio: Nova osobna dizala i osobna teretna dizala u postojećim zgradama
- prEN 12015 en  
Electromagnetic compatibility – Product family standard for lifts, escalators and moving walks – Emission  
Elektromagnetska kompatibilnost – Norma porodice proizvoda za dizala, pokretne stube i putničke transportere – Emisija

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

- EN 71-1:2011/prA2 en  
Safety of toys – Part 1: Mechanical and physical properties – Amendment 2: Acoustics
- prEN 71-3 rev en  
Safety of toys – Part 3: Migration of certain elements  
Sigurnost igračka – 3. dio: Prijelaz određenih elemenata
- prEN 71-5 en  
Safety of toys – Part 5: Chemical toys (sets) other than experimental sets  
Sigurnost igračka – 5. dio: Kemijske igračke (oprema) koje se ne ubrajaju u eksperimentalnu opremu
- prEN 71-12 en  
Safety of toys – Part 12: N-nitrosamines and N-nitrosatable substances
- prEN 71-13 en  
Safety of toys – Part 13: Olfactory board games, gustative board games, cosmetic kits and gustative kits

## **HZN/TO 182, Geotehničke konstrukcije**

- CEN ISO/TS 22475-2:2006 en  
Geotechnical investigation and testing – Sampling methods and groundwater measurements – Part 2: Qualification criteria for enterprises and personnel (ISO/TS 22475-2:2006)
- CEN ISO/TS 22475-3:2007 en  
Geotechnical investigation and testing – Sampling methods and groundwater measurements – Part 3: Conformity assessment of enterprises and personnel by third party (ISO/TS 22475-3:2007)
- FprEN ISO 22476-1 en  
Geotechnical investigation and testing – Field testing – Part 1: Electrical cone and piezocone penetration test (ISO/FDIS 22476-1:2012)
- FprEN ISO 22476-4 en  
Geotechnical investigation and testing – Field testing – Part 4: Ménard pressuremeter test (ISO/FDIS 22476-4:2012)
- FprEN ISO 22476-5 en  
Geotechnical investigation and testing – Field testing – Part 5: Flexible dilatometer test (ISO/FDIS 22476-5:2012)
- FprEN ISO 22476-7 en  
Geotechnical investigation and testing – Field testing – Part 7: Borehole jack test (ISO/FDIS 22476-7:2012)
- CEN ISO/TS 22476-10:2005 en  
Geotechnical investigation and testing – Field testing – Part 10: Weight sounding test (ISO/TS 22476-10:2005)
- CEN ISO/TS 22476-11:2005 en  
Geotechnical investigation and testing – Field testing – Part 11: Flat dilatometer test (ISO 22476-11:2005)

## **HZN/TO 190, Kvaliteta tla**

- prEN ISO 16387 en  
Soil quality – Effects of pollutants on Enchytraeidae (Enchytraeus sp.) – Determination of effects on reproduction (ISO/DIS 16387:2012)
- prEN ISO 28258 en  
Soil quality – Digital exchange of soil-related data (ISO/DIS 28258:2012)

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

- prEN 1469 en  
Natural stone products – Slabs for cladding – Requirements  
Proizvodi od prirodnog kamena – Ploče za oblaganje – Zahtjevi

- prEN 12057 en  
Natural stone products – Modular tiles – Requirements  
Proizvodi od prirodnog kamena – Modularne ploče – Zahtjevi
- prEN 12058 en  
Natural stone products – Slabs for floors and stairs – Requirements  
Proizvodi od prirodnog kamena – Ploče za podove i stube – Zahtjevi
- FprEN 14617-1 rev en  
Agglomerated stone – Test methods – Part 1: Determination of apparent density and water absorption  
Kameni aglomerat – Ispitne metode – 1. dio: Određivanje prostorne mase i upijanja vode
- FprEN 14617-13 rev en  
Agglomerated stone – Test methods – Part 13: Determination of electrical resistivity  
Kameni aglomerat – Ispitne metode – 13. dio: Određivanje električne otpornosti

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

- prEN ISO 14031 rev en  
Environmental management – Environmental performance evaluation – Guidelines (ISO/DIS 14031:2012)  
Upravljanje okolišem – Vrednovanje utjecaja na okoliš – Smjernice (ISO/DIS 14031:2012)

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

- prEN ISO 19101-1 en  
Geographic information – Reference model – Part 1: Fundamentals (ISO/DIS 19101-1:2012)
- FprEN ISO 19156 en  
Geographic information – Observations and measurements (ISO 19156:2011)

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

- prEN ISO 10781 en  
Electronic health record-system functional model (ISO/DIS 10781:2012)
- FprEN ISO 11073-10420 en  
Health informatics – Personal health device communication – Part 10420: Device specialization – Body composition analyzer (ISO/FDIS 11073-10420:2012)
- FprEN ISO 11073-10421 en  
Health informatics – Personal health device communication – Part 10421: Device specialization – Peak expiratory flow monitor (peak flow) (ISO/FDIS 11073-10421:2012)
- FprEN ISO 11073-10472 en  
Health Informatics – Personal health device communication – Part 10472: Device specialization – Medication monitor (ISO/FDIS 11073-10472:2012)
- FprEN ISO 11073-30400 en  
Health informatics – Point-of-care medical device communication – Part 30400: Interface profile – Cabled Ethernet (ISO/FDIS 11073-30400:2012)

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

- prEN 16342 en  
Cosmetics – Analysis of cosmetic products – Quantitative determination of zinc pyrithione, piroctone olamine and climbazole in surfactant containing cosmetic anti-dandruff products
- prEN 16343 en  
Cosmetics – Analysis of cosmetic products – Determination of 3-iodo-2-propynyl butylcarbamate (IPBC) in cosmetic preparations, LC-MS methods
- prEN 16344 en  
Cosmetics – Analysis of cosmetic products – Screening for UV-filters in cosmetic products and quantitative determination of 10 UV-filters by HPLC

## HZN/TO 218, *Drvo*

- prEN 73 rev en  
Wood preservatives – Accelerated ageing of treated wood prior to biological testing – Evaporative ageing procedure  
Sredstva za zaštitu drva – Ubrzano starenje tretiranog drva prije ispitivanja biološkim agensima – Postupak starenja evaporacijom
- prEN 252 rev en  
Field test method for determining the relative protective effectiveness of a wood preservative in ground contact  
Metoda ispitivanja na otvorenom za određivanje zaštitne učinkovitosti sredstva za zaštitu drva u dodiru sa zemljom
- prEN 330 rev en  
Wood preservatives – Determination of the relative protective effectiveness of a wood preservative for use under a coating and exposed out-of-ground contact – Field test: L-joint method  
Sredstva za zaštitu drva – Određivanje relativne zaštitne učinkovitosti sredstva za zaštitu drva za upotrebu ispod završne površinske obrade i izloženoga kada nije u dodiru sa zemljom – Test na otvorenom: metoda ispitivanja L spojeva
- FprEN 1316-1 en  
Hardwood round timber – Qualitative classification – Part 1: Oak and beech  
Oblo drvo listača – Razvrstavanje po kakvoći – 1. dio: Hrast i bukva
- FprEN 1316-2 en  
Hardwood round timber – Qualitative classification – Part 2: Poplar  
Oblo drvo listača – Razvrstavanje po kakvoći – 2. dio: Topola
- prEN 14076 rev en  
Timber stairs – Terminology  
Drvene stube – Nazivlje
- FprEN/TS 15119-2 en  
Durability of wood and wood-based products – Determination of emissions from preservative treated wood to the environment – Part 2: Wooden commodities exposed in Use Class 4 or 5 (in contact with the ground, fresh water or sea water) – Laboratory method  
Trajnost drva i proizvoda na osnovi drva – Određivanje emisije zaštitnog sredstva iz tretiranog drva u okoliš – 2. dio: Drvena roba izložena u razredu 4 ili 5 (u dodiru sa zemljom, slatkom ili slanom vodom) – Laboratorijska metoda

## HZN/TO 221, *Geosintetici*

- FprEN 13361 rev en  
Geosynthetic Barriers – Characteristics required for use in the construction of reservoirs and dams  
Geosintetičke barijere – Zahtijevana svojstva za uporabu pri izgradnji akumulacijskih jezera i brana
- FprEN 13362 en  
Geosynthetic Barriers – Characteristics required for use in the construction of canals  
Geosintetičke barijere – Zahtijevana svojstva za uporabu pri izgradnji kanala
- FprEN 13491 rev en  
Geosynthetic Barriers – Characteristics required for use in the construction of tunnels and underground structures
- FprEN 13492 rev en  
Geosynthetic barriers – Characteristics required for use in the construction of liquid waste disposal sites, transfer stations or secondary containment  
Geosintetičke barijere – Zahtijevana svojstva za uporabu pri izgradnji odlagališta tekućeg otpada, stanica za privremeno skladištenje ili sekundarnu zaštitu

- FprEN 13493 rev en  
Geosynthetic barriers – Characteristics required for use in the construction of solid waste storage and disposal sites  
Geosintetičke barijere – Zahtijevana svojstva za uporabu pri izgradnji skladišta i odlagališta krutog otpada
- FprEN 15382 en  
Geosynthetic barriers – Characteristics required for use in transportation infrastructure  
Geosintetičke barijere – Zahtijevana svojstva za uporabu pri izgradnji objekata prometne infrastrukture
- prEN 16416 en  
Geosynthetic clay barriers – Determination of water flux index – Flexible wall permeameter method at constant head

## HZN/TO 502, *Plinski uređaji*

- prEN 203-1 rev en  
Gas heated catering equipment – Part 1: General safety rules  
Plinski uređaji za velike kuhinje – 1. dio: Opće sigurnosne odredbe

## HZN/TO 503, *Metalni materijali*

- FprEN ISO 643 en  
Steels – Micrographic determination of the apparent grain size (ISO/FDIS 643:2012)  
Čelici – Mikrografsko određivanje prividne veličine zrna (ISO/FDIS 643:2012)
- FprEN 10223-1 en  
Steel wire and wire products for fencing and netting – Part 1: Zinc and zinc-alloy coated steel barbed wire  
Čelična žica i proizvodi od žice za ograde i mreže – 1. dio: Čelična bodljikava žica prevučena cinkom i legurom cinka
- FprEN 10223-2 en  
Steel wire and wire products for fencing and netting – Part 2: Hexagonal steel wire netting for agricultural, insulation and fencing purposes  
Čelična žica i proizvodi od žice za ograde i mreže – 2. dio: Čelične mreže sa šesterokutnim otvorima za upotrebu u poljoprivredi, za odvajanje i ograđivanje
- FprEN 10223-4 en  
Steel wire and wire products for fencing and netting – Part 4: Steel wire welded mesh fencing  
Čelična žica i proizvodi od žice za ograde i mreže – 4. dio: Zavarene čelične mreže za ograde
- FprEN 10223-5 en  
Steel wire and wire products for fencing and netting – Part 5: Steel wire woven hinged joint and knotted mesh fencing  
Čelična žica i proizvodi od žice za ograde i mreže – 5. dio: Zglobne i čvorne pletene čelične mreže za ograde
- FprEN 10223-6 en  
Steel wire and wire products for fencing and netting – Part 6: Steel wire chain link fencing  
Čelična žica i proizvodi od žice za ograde i mreže – 6. dio: Lančano vezane čelične mreže za ograde
- FprEN 10223-7 en  
Steel wire and wire products for fencing and netting – Part 7: Steel wire welded panels for fencing  
Čelična žica i proizvodi od žice za ograde i mreže – 7. dio: Zavareni čelični paneli za ograde
- FprEN/TS 13388 en  
Copper and copper alloys – Compendium of compositions and products  
Bakar i legure bakra – Sažeti prikaz sastava i proizvoda



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

prEN 12583 en  
Gas infrastructure – Compressor stations – Functional requirements  
Plinska infrastruktura – Plinske reduksijske stanice za transport i distribuciju – Funkcionalni zahtjevi

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

EN ISO 19902:2007/prA1 en  
Petroleum and natural gas industries – Fixed steel offshore structures (ISO 19902:2007/DAM 1:2012)  
Industrija nafte i prirodnog plina – Stabilni čelični odobalni objekti (ISO 19902:2007/DAM 1:2012)

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

EN ISO 8611-1:2012 en  
Pallets for materials handling – Flat pallets – Part 1: Test methods (ISO 8611-1:2011)  
Palete za rukovanje materijalima – Plošne palete – 1. dio: Ispitne metode (ISO 8611-1:2011)

EN ISO 8611-2:2012 en  
Pallets for materials handling – Flat pallets – Part 2: Performance requirements and selection of tests (ISO 8611-2:2011)  
Palete za rukovanje materijalima – Plošne palete – 2. dio: Izvedbeni zahtjevi i izbor načina ispitivanja (ISO 8611-2:2011)

EN ISO 8611-3:2012 en  
Pallets for materials handling – Flat pallets – Part 3: Maximum working loads (ISO 8611-3:2011)  
Palete za rukovanje materijalima – Plošne palete – 3. dio: Najveće radno opterećenje (ISO 8611-3:2011)

## **HZN/TO 517, *Posebne vrste konstrukcija***

prEN 12811-4 en  
Temporary works equipment – Part 4: Protection fans for scaffolds – Performance requirements and product design

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

FprEN 13964 rev en  
Suspended ceilings – Requirements and test methods  
Ovješeni stropovi – Zahtjevi i ispitne metode

CEN/TS 16384:2012 en  
Synthetic sport systems – Leaching test

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

prEN 16403 en  
Waste management – Waste visual elements

## **HZN/TO 524, *Cestovni prijevoz i prometna telematika***

FprEN 28701 en  
Intelligent transport systems – Public transport – Identification of Fixed Objects in Public Transport (IFOPT)

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

FprEN 495-5 en  
Flexible sheets for waterproofing – Determination of foldability at low temperature – Part 5: Plastic and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje pregibljivosti pri niskoj temperaturi – 5. dio: Plastične i elastomerne hidroizolacijske trake za krovove

FprEN 502 en  
Roofing products from metal sheet – Specification for fully supported roofing products of stainless steel sheet  
Krovopokrivački proizvodi od lima – Specifikacija za nenosive krovopokrivačke proizvode od nehrđajućeg čeličnog lima

FprEN 505 en  
Roofing products from metal sheet – Specification for fully supported roofing products of steel sheet  
Krovopokrivački proizvodi od lima – Specifikacija za nenosive krovopokrivačke proizvode od čeličnog lima

FprEN 539-2 rev en  
Clay roofing tiles for discontinuous laying – Determination of physical characteristics – Part 2: Test for frost resistance  
Glineni crijevi za prijklopno polaganje – Određivanje fizikalnih značajka – 2. dio: Ispitivanje otpornosti na smrzavanje

FprEN 1013 en  
Light transmitting single skin profiled plastics sheets for internal and external roofs, walls and ceilings – Requirements and test methods

FprEN 1109 en  
Flexible sheets for waterproofing – Bitumen sheets for roof waterproofing – Determination of flexibility at low temperature  
Savitljive hidroizolacijske trake – Bitumenske hidroizolacijske trake za krovove – Određivanje savitljivosti pri niskoj temperaturi

FprEN 1304 en  
Clay roofing tiles and fittings – Product definitions and specifications  
Glineni crijevi i pomoćni dijelovi – Definicije i specifikacije proizvoda

FprEN 1844 en  
Flexible sheets for waterproofing – Determination of resistance to ozone – Plastic and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje otpornosti na ozon – Plastične i elastomerne hidroizolacijske trake za krovove

FprEN 12311-2 en  
Flexible sheets for waterproofing – Determination of tensile properties – Part 2: Plastic and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje vlačnih svojstava – 2. dio: Plastične i elastomerne hidroizolacijske trake za krovove

FprEN 12316-2 en  
Flexible sheets for waterproofing – Determination of peel resistance of joints – Part 2: Plastic and rubber sheets for roof waterproofing  
Savitljive hidroizolacijske trake – Određivanje otpornosti spojeva na razdvajanje – 2. dio: Plastične i elastomerne hidroizolacijske trake za krovove

FprEN 13956 en  
Flexible sheet for waterproofing – Plastic and rubber sheets for roof waterproofing – Definitions and characteristics  
Savitljive hidroizolacijske trake – Plastične i elastomerne hidroizolacijske trake za krovove – Definicije i značajke

FprEN 13984 en  
Flexible sheets for waterproofing – Plastic and rubber vapour control layers – Definitions and characteristics  
Savitljive hidroizolacijske trake – Plastične i elastomerne paronepropusne trake – Definicije i značajke

FprEN 14783 en  
Fully supported metal sheet and strip for roofing, external cladding and internal lining – Product specification and requirements  
Nenosivi limovi i trake za pokrivanje krovova, vanjsko i unutrašnje oblaganje – Specifikacija proizvoda i zahtjevi

EN 15814:2011/FprA1 en  
Polymer modified bituminous thick coatings for waterproofing – Definitions and requirements  
Polimerom modificirani bitumenski debeloslojni premazi za hidroizolaciju – Definicije i zahtjevi

## **HZN/TO 526, Bitumenska veziva**

- prEN 12597 en  
Bitumen and bituminous binders – Terminology  
Bitumen i bitumenska veziva – Nazivlje

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

- EN 13103:2009+A2:2012 en  
Railway applications – Wheelsets and bogies – Non-powered axles – Design method  
Oprema za željeznice – Osovinski sklopovi i okretna postolja – Slobodne osovine – Metode konstruiranja
- EN 15528:2008/FprA1 en  
Railway applications – Line categories for managing the interface between load limits of vehicles and infrastructure  
Oprema za željeznice – Kategorije pruga za određivanje sučelja između granica opterećenja željezničkih vozila i infrastrukture
- FprEN 15839 en  
Railway applications – Testing for the acceptance of running characteristics of railway vehicles – Freight wagons – Testing of running safety under longitudinal compressive forces
- prEN 16186-3 en  
Railway applications – Driver's cab – Part 3: Design of displays
- prEN 16404 en  
Railway Applications – Re-railing and recovery requirements for railway vehicles

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

- prEN ISO 75-1 en  
Plastics – Determination of temperature of deflection under load – Part 1: General test method (ISO/DIS 75-1:2012)  
Plastika – Određivanje temperature postojanosti oblika pod opterećenjem – 1. dio: Opća metoda ispitivanja (ISO/DIS 75-1:2012)
- EN ISO 180:2000/prA2 en  
Plastics – Determination of Izod impact strength – Amendment 2: Precision data (ISO 180:2000/DAM 2:2012)  
Plastika – Određivanje žilavosti pri savijanju po Izodu – Amandman 2: Preciznost podataka (ISO 180:2000/DAM 2:2012)
- prEN ISO 306 rev en  
Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST) (ISO/DIS 306:2012)  
Plastika – Plastomerni materijali – Određivanje temperature omekšavanja po Vicatu (VST) (ISO/DIS 306:2012)
- prEN ISO 3385 rev en  
Flexible cellular polymeric materials – Determination of fatigue by constant-load pounding (ISO/DIS 3385:2012)  
Savitljivi pjenasti polimerni materijali – Određivanje zamora djelovanjem konstantnog opterećenja (ISO/DIS 3385:2012)
- prEN ISO 4892-2 rev en  
Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps (ISO/DIS 4892-2:2012)  
Plastika – Metode izlaganja laboratorijskim izvorima svjetla – 2. dio: Ksenonske lampe (ISO/DIS 4892-2:2012)
- FprEN ISO 11403-2 en  
Plastics – Acquisition and presentation of comparable multipoint data – Part 2: Thermal and processing properties (ISO/FDIS 11403-2:2012)  
Plastika – Prikupljanje i prikaz usporedivih podataka dobivenih iz više mjerenja u širem ispitnom području – 2. dio: Toplinska i preradbena svojstva (ISO/FDIS 11403-2:2012)

- prEN 13482 rev en  
Rubber hoses and hose assemblies for asphalt and bitumen – Specification  
Gumena crijeva i crijevni uređaji za asfalt i bitumen – Specifikacija

- prEN ISO 15791-1 en  
Plastics – Development and use of intermediate-scale fire tests for plastics products – Part 1: General guidance (ISO/DIS 15791-1:2012)  
Plastika – Razvoj i primjena ispitivanja u blažim uvjetima gorenja za plastične proizvode – 1. dio: Opće upute (ISO/DIS 15791-1:2012)

- FprCEN/TS 16010 en  
Plastics – Recycled plastics – Sampling procedures for testing plastics waste and recyclates  
Plastika – Reciklirana plastika – Postupci uzorkovanja za ispitivanje plastičnoga otpada i reciklata

- FprCEN/TS 16011 en  
Plastics – Recycled plastics – Sample preparation  
Plastika – Reciklirana plastika – Priprema uzoraka

- FprCEN/TS 16398 en  
Plastics – Template for reporting and communication of bio-based carbon content and recovery options of biopolymers and bioplastics – Data sheet  
Plastika – Predložak za izvještavanje i prijenos podataka o ugljiku biološkog podrijetla i mogućnosti regeneracije biopolimera i bioplastike – Sigurnosni tehnički list

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

- EN 1859:2009/FprA1 en  
Chimneys – Metal chimneys – Test methods  
Dimnjaci – Metalni dimnjaci – Ispitne metode
- prEN 16475-7 en  
Chimneys – Accessories – Part 7: Rain caps – Requirements and test methods

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

- FprEN 12697-42 en  
Bituminous mixtures – test methods for hot mix asphalt – Part 42: Amount of foreign matter in reclaimed asphalt
- prEN 12697-43 en  
Bituminous mixtures – Test methods for hot mix asphalt – Part 43: Resistance to fuel  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 43. dio: Otpornost na gorivo

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

- EN ISO 6346:1995/FprA3 en  
Freight containers – Coding, identification and marking – Amendment 3 (ISO 6346:1995/FDAM 3:2012)  
Kontejneri za teret – Kodiranje, identifikacija i označavanje – Amandman 3 (ISO 6346:1995/FDAM 3:2012)

## **HZN/TO 535, Agregati**

- EN 933-9:2009/FprA1 en  
Tests for geometrical properties of aggregates – Part 9: Assessment of fines – Methylene blue test  
Ispitivanja geometrijskih svojstava agregata – 9. dio: Procjena sitnih čestica – Ispitivanje metilenskim modrilom
- EN 1744-1:2009/FprA1 en  
Tests for chemical properties of aggregates – Part 1: Chemical analysis  
Ispitivanja kemijskih svojstava agregata – 1. dio: Kemijska analiza
- EN 1744-8:2012 en  
Tests for chemical properties of aggregates – Part 8: Sorting test to determine metal content of Municipal Incinerator Bottom Ash (MIBA) Aggregates

prEN 13055 en  
Lightweight aggregates for concrete, mortar, grout, bituminous mixtures, surface treatments and for unbound and bound applications

FprEN 13450 en  
Aggregates for railway ballast  
Agregati za željeznički tucanik

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

EN 572-1:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 1: Definitions and general physical and mechanical properties  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 1. dio: Definicije i opća fizikalna i mehanička svojstva

EN 572-2:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 2: Float glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 2. dio: "Float" staklo

EN 572-3:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 3: Polished wired glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 3. dio: Polirano žičano staklo

EN 572-4:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 4: Drawn sheet glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 4. dio: Vučeno staklo

EN 572-5:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 5: Patterned glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 5. dio: Ornamentno staklo

EN 572-6:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 6: Wired patterned glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 6. dio: Ornamentno žičano staklo

EN 572-7:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 7: Wired or unwired channel shaped glass  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 7. dio: Profilno žičano i nežičano staklo

EN 572-8:2012 en  
Glass in building – Basic soda lime silicate glass products – Part 8: Supplied and final cut sizes  
Staklo u graditeljstvu – Proizvodi od osnovnog natrij-kalcij-silikatnog stakla – 8. dio: Isporučive i konačno rezane mjere

prEN 1096-4 en  
Glass in building – Coated glass – Part 4: Evaluation of conformity/Product standard  
Staklo u graditeljstvu – Staklo s premazom – 4. dio: Vrednovanje sukladnosti/norma za proizvod

FprEN 1935 en  
Building hardware – Single-axis hinges – Requirements and test methods  
Građevni okovi – Jednoosovinske šarke – Zahtjevi i ispitne metode

prEN 12150-1 en  
Glass in building – Thermally toughened soda lime silicate safety glass – Part 1: Definition and description  
Staklo u graditeljstvu – Termički kaljeno natrij-kalcij-silikatno sigurnosno staklo – 1. dio: Definicija i opis

EN 13120:2009/prA1 en  
Internal blinds – Performance requirements including safety  
Unutrašnji zaslони – Zahtjevi izvedbe uključujući sigurnost

FprEN 13637 en  
Building hardware – Electrically controlled exit systems for use on escape routes – Requirements and test methods

FprEN 15684 en  
Building hardware – Mechatronic cylinders – Requirements and test methods

FprEN 15887 en  
Building hardware – Uncontrolled Door Closing Devices for single action doors – Requirements and test methods

FprEN 16034 en  
Pedestrian doorsets, industrial, commercial, garage doors and windows – Product standard, performance characteristics – Fire resistance and/or smoke control characteristics

FprEN 16035 en  
Hardware performance sheet (HPS) – Identification and summary of test evidence to facilitate the interchangeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows

prEN 16433 en  
Internal blinds – Protection from strangulation hazards – Test methods

prEN 16434 en  
Internal blinds – Protection from strangulation hazards – Requirements and Test methods for safety devices

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

EN ISO 16610-21:2012 en  
Geometrical product specifications (GPS) – Filtration – Part 21: Linear profile filters: Gaussian filters (ISO 16610-21:2011)

prEN ISO 16610-71 en  
Geometrical product specifications (GPS) – Filtration – Part 71: Robust areal filters: Gaussian regression filters (ISO/DIS 16610-71:2012)

prEN ISO 16610-85 en  
Geometrical product specifications (GPS) – Filtration – Part 85: Areal morphological: Segmentation (ISO/DIS 16610-85:2012)

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

FprEN 13321-2 en  
Open Data Communication in Building Automation, Controls and Building Management – Home and Building Electronic Systems – Part 2: KNXnet/IP Communication  
Otvorena podatkovna komunikacija u automatizaciji zgrada, nadzor i upravljanje zgradama – Elektronički sustavi za upravljanje obiteljskim kućama i zgradama – 2. dio: KNXnet/IP komunikacije

EN ISO 16484-5:2012 en  
Building automation and control systems – Part 5: Data communication protocol (ISO 16484-5:2012)  
Digitalni sustavi upravljanja u zgradama (BACS) – 5. dio: Podatkovni komunikacijski protokol (ISO 16484-5:2012)

## **HZN/TO 544, *Strojni elementi***

EN ISO 10642:2004/FprA1 en  
Hexagon socket countersunk head screws (ISO 10642:2004/FDAM 1:2012)  
Upušteni vijci sa šestorokutnim udubljenjem (ISO 10642:2004/FDAM 1:2012)

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

- EN 1998-1:2004/FprA1 en  
Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings  
Eurokod 8: Projektiranje potresne otpornosti konstrukcija – 1. dio: Opća pravila, potresna djelovanja i pravila za zgrade

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

- FprEN 40-3-1 en  
Lighting columns – Design and verification – Part 3-1: Specification for characteristic loads  
Rasvjetni stupovi – Projektiranje i verifikacija – Dio 3-1: Specifikacija za karakteristična opterećenja
- FprEN 40-3-2 en  
Lighting columns – Design and verification – Part 3-2: Verification by testing  
Rasvjetni stupovi – Projektiranje i verifikacija – Dio 3-2: Verifikacija ispitivanjem
- FprEN 40-3-3 en  
Lighting columns – Design and verification – Part 3-3: Verification by calculation  
Rasvjetni stupovi – Projektiranje i verifikacija – Dio 3-3: Verifikacija proračunom

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

- FprEN 896 en  
Chemicals used for treatment of water intended for human consumption – Sodium hydroxide  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev hidroksid
- FprEN 897 en  
Chemicals used for treatment of water intended for human consumption – Sodium carbonate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev karbonat
- FprEN 898 en  
Chemicals used for treatment of water intended for human consumption – Sodium hydrogen carbonate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev hidrogenkarbonat
- FprEN 1421 en  
Chemicals used for treatment of water intended for human consumption – Ammonium chloride  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Amonijev klorid
- FprEN 12120 en  
Chemicals used for treatment of water intended for human consumption – Sodium hydrogen sulfite  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev hidrogensulfit
- FprEN 12121 en  
Chemicals used for treatment of water intended for human consumption – Sodium disulfite  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev disulfit
- FprEN 12123 en  
Chemicals used for treatment of water intended for human consumption – Ammonium sulfate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Amonijev sulfat
- FprEN 12124 en  
Chemicals used for treatment of water intended for human consumption – Sodium sulfite  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev sulfit
- FprEN 12125 en  
Chemicals used for treatment of water intended for human consumption – Sodium thiosulfate

Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev tiosulfat

- FprEN 12126 en  
Chemicals used for treatment of water intended for human consumption – Liquefied ammonia  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Ukapljeni amonijak
- FprEN 12173 en  
Chemicals used for treatment of water intended for human consumption – Sodium fluoride  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev fluorid
- FprEN 12386 en  
Chemicals used for treatment of water intended for human consumption – Copper sulfate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Bakrov sulfat
- FprEN 12905 en  
Products used for treatment of water intended for human consumption – Expanded aluminosilicate  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Ekspandirani aluminosilikati
- FprEN 12906 en  
Products used for treatment of water intended for human consumption – Pumice  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Kamen plovuđac
- FprEN 12909 en  
Products used for treatment of water intended for human consumption – Anthracite  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Antracit
- FprEN 12910 en  
Products used for treatment of water intended for human consumption – Garnet  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Granat
- FprEN 12912 en  
Products used for treatment of water intended for human consumption – Barite  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Barit
- FprEN 12913 en  
Products used for treatment of water intended for human consumption – Powdered diatomaceous earth  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Dijatomejska zemlja u prahu
- FprEN 12914 en  
Products used for treatment of water intended for human consumption – Powdered perlite  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Perlit u prahu
- FprEN 15028 en  
Chemicals used for treatment of water intended for human consumption – Sodium chlorate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev klorat
- FprEN 15029 en  
Products used for treatment of water intended for human consumption – Iron (III) hydroxide oxide  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Željezov(III) hidroksid
- FprEN 15030 en  
Chemicals used for treatment of water intended for human consumption – Silver salts for intermittent use  
Kemikalije koje se upotrebljavaju za obradu vode namijenjene ljudskoj uporabi – Soli srebra za povremenu uporabu

prEN 15091 en  
Sanitary tapware – Electronic opening and closing sanitary tapware  
Sanitarne armature – Elektroničko otvaranje i zatvaranje sanitarnih armatura

FprEN 15482 en  
Chemicals used for treatment of water intended for human consumption – Sodium permanganate  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Natrijev permanganat

prEN 16399 en  
Chemicals used for treatment of swimming pool water – Sodium thiosulfate

prEN 16400 en  
Chemicals used for treatment of swimming pool – Hydrogen peroxide

prEN 16401 en  
Chemicals used for the treatment of swimming pool water – Electrochlorinator salts

prEN 16409 en  
Chemicals used for treatment of water for human consumption – Dolomitic lime

prEN 16421 en  
Influence of materials on water for human consumption – Enhancement of microbial growth (EMG)

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

EN 15651-5:2012 en  
Sealants for non-structural use in joints in buildings and pedestrian walkways – Part 5: Evaluation of conformity and marking  
Brtvila za nekonstrukcijsku uporabu za spojeve u zgradama i pješačkim stazama – 5. dio: Vrednovanje sukladnosti i označivanje

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

FprEN 1341 en  
Slabs of natural stone for external paving – Requirements and test methods  
Ploče od prirodnog kamena za vanjsko popločivanje – Zahtjevi i metode ispitivanja

FprEN 1342 en  
Setts of natural stone for external paving – Requirements and test methods  
Prizme od prirodnog kamena za vanjsko popločivanje – Zahtjevi i metode ispitivanja

FprEN 1343 en  
Kerbs of natural stone for external paving – Requirements and test methods  
Rubnjaci od prirodnog kamena za vanjsko popločivanje – Zahtjevi i metode ispitivanja

EN 12004:2007+A1:2012 en  
Adhesives for tiles – Requirements, evaluation of conformity, classification and designation  
Ljepila za pločice – Zahtjevi, vrednovanje sukladnosti, razredba i označivanje

prEN 14428 rev en  
Shower enclosures – Functional requirements and test methods  
Stijenke tuš kabine – Funkcionalni zahtjevi i ispitne metode

EN 15037-4:2010/FprA1 en  
Precast concrete products – Beam-and-block floor systems – Part 4: Expanded polystyrene blocks  
Predgotovljeni betonski proizvodi – Stropni sustavi sastavljeni od nosača i blokova (ispune) – 4. dio: Blokovi od ekspaniranog polistirena

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

prEN 16397-1 en  
Flexible couplings – Part 1: Performance requirements

prEN 16397-2 en  
Flexible couplings – Part 2: Materials and dimensions for metal banded flexible couplings

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

prEN 1422 rev en  
Sterilizers for medical purposes – Ethylene oxide sterilizers – Requirements and test methods  
Sterilizatori za medicinske namjene – Etilen oksid sterilizatori – Zahtjevi i ispitne metode

EN ISO 13408-6:2011/prA1 en  
Aseptic processing of health care products – Part 6: Isolator systems (ISO 13408-6:2005/DAM 1:2012)  
Aseptički postupci za proizvode zdravstvene zaštite – 6. dio: Sustavi izolacije (ISO 13408-6:2005/DAM 1:2012)

EN ISO 13485:2012+AC:2012 en  
Medical devices – Quality management systems – Requirements for regulatory purposes (ISO 13485:2003+Cor 1:2009)  
Medicinski uređaji – Sustavi upravljanja kvalitetom – Zahtjevi za zakonsku namjenu (ISO 13485:2003+Cor 1:2009)

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

EN ISO 18113-1:2011 en  
In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 1: Terms, definitions and general requirements (ISO 18113-1:2009)  
Medicinski proizvodi za in vitro dijagnostiku – Informacije proizvođača (označivanje) – 1. dio: Nazivi, definicije i opći zahtjevi (ISO 18113-1:2009)

EN ISO 18113-2:2011 en  
In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 2: In vitro diagnostic reagents for professional use (ISO 18113-2:2009)  
Medicinski proizvodi za in vitro dijagnostiku – Informacije proizvođača (označivanje) – 2. dio: Dijagnostički reagensi za upotrebu in vitro (ISO 18113-2:2009)

EN ISO 18113-3:2011 en  
In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 3: In vitro diagnostic instruments for professional use (ISO 18113-3:2009)  
Medicinski proizvodi za in vitro dijagnostiku – Informacije proizvođača (označivanje) – 3. dio: Dijagnostički uređaji za upotrebu in vitro (ISO 18113-3:2009)

EN ISO 18113-4:2011 en  
In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 4: In vitro diagnostic reagents for self-testing (ISO 18113-4:2009)  
Medicinski proizvodi za in vitro dijagnostiku – Informacije proizvođača (označivanje) – 4. dio: Dijagnostički reagensi za samoispitivanje in vitro (ISO 18113-4:2009)

EN ISO 18113-5:2011 en  
In vitro diagnostic medical devices – Information supplied by the manufacturer (labelling) – Part 5: In vitro diagnostic instruments for self-testing (ISO 18113-5:2009)  
Medicinski proizvodi za in vitro dijagnostiku – Informacije proizvođača (označivanje) – 5. dio: Dijagnostički uređaji za samoispitivanje in vitro (ISO 18113-5:2009)

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

- prEN ISO 17249 rev en  
Safety footwear with resistance to chain saw cutting (ISO/DIS 17249:2012)  
Sigurnosna obuća otporna na zarezivanje lančanom pilom (ISO/DIS 17249:2012)

## HZN/TO 557, *Zaštitna odjeća*

- prEN 374-4 en  
Protective gloves against chemicals and micro-organisms – Part 4: Determination of resistance to degradation by chemicals  
Rukavice za zaštitu od kemikalija i mikroorganizama – 4. dio: Određivanje otpornosti na razgradnju kemikalijama
- prEN 1621-2 en  
Motorcyclists' protective clothing against mechanical impact – Part 2: Motorcyclists' back protectors – Requirements and test methods  
Motociklistička odjeća za zaštitu od mehaničkog udara – 2. dio: Motociklistički štitioci za leđa – Zahtjevi i ispitne metode
- prEN 13138-1 en  
Buoyant aids for swimming instruction – Part 1: Safety requirements and test methods for buoyant aids to be worn  
Plutajuća pomagala za poduku plivanja – 1. dio: Sigurnosni zahtjevi i ispitne metode za plutajuća pomagala koja se mogu obući
- prEN 13138-2 en  
Buoyant aids for swimming instruction – Part 2: Safety requirements and test methods for buoyant aids to be held  
Plutajuća pomagala za učenje plivanja – 2. dio: Sigurnosni zahtjevi i ispitne metode za plutajuća pomagala koja se pridržavaju
- prEN 13138-3 en  
Buoyant aids for swimming instruction – Part 3: Safety requirements and test methods for swim seats to be worn  
Plutajuća pomagala za učenje plivanja – 3. dio: Sigurnosni zahtjevi i ispitne metode za sjedala za plivanje koja se pričvršćuju
- prEN 13594 en  
Protective gloves for professional motorcycle riders – Requirements and test methods  
Zaštitne rukavice za profesionalne vozače motocikla – Zahtjevi i ispitne metode

## HZN/TO 560, *Tekstilni proizvodi*

- prEN ISO 16373-2 en  
Textiles – Dyestuffs – Part 2: General method for the determination of extractable dyestuffs including allergenic and carcinogenic substances (ISO/DIS 16373-2:2012)  
Tekstil – Bojila – 2. dio: Opća metoda za određivanje izlučevina bojila uključujući alergene i kancerogene tvari (ISO/DIS 16373-2:2012)
- prEN ISO 20743 en  
Textiles – Determination of antibacterial activity of textile products (ISO/DIS 20743:2012)  
Tekstil – Određivanje antibakterijske aktivnosti tekstilnih proizvoda (ISO/DIS 20743:2012)

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

- FprCEN/TR 764-6 en  
Pressure equipment – Part 6: Structure and content of operating instructions  
Tlačna oprema – 6. dio: Oblik i sadržaj uputa za rad

- EN 1440:2008+A1:2012 en  
LPG equipment and accessories – Periodic inspection of transportable refillable LPG cylinders  
Oprema i pribor za UNP – Periodični pregled prenosivih, ponovno punjivih boca za UNP
- prEN ISO 3807 en  
Gas cylinders – Acetylene cylinders – Basic requirements and type testing (ISO/DIS 3807:2012)  
Plinske bocve – Boce za acetilen – Osnovni zahtjevi i ispitivanje tipa (ISO/DIS 3807:2012)
- prEN ISO 10297 rev en  
Gas cylinders – Cylinder valves – Specification and type testing (ISO/DIS 10297:2012)  
Plinske boce – Ventili boca – Specifikacija i ispitivanje tipa (ISO/DIS 10297:2012)
- prEN ISO 10462 en  
Gas cylinders – Acetylene cylinders – Periodic inspection and maintenance (ISO/DIS 10462:2012)  
Plinske boce – Boce za acetilen – Periodični pregled i održavanje (ISO/DIS 10462:2012)
- FprEN 12252 en  
LPG equipment and accessories – Equipping of LPG road tankers  
Oprema i pribor za UNP – Opremanje kamionskih cisterni za UNP
- EN 12493:2008+A1:2012 en  
LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers design and manufacture  
Oprema i pribor za UNP – Zavareni čelični tlačni spremnici za ukapljeni naftni plin (UNP) – Projektiranje i proizvodnja spremnika za cestovna vozila
- FprEN ISO 13088 en  
Gas cylinders – Acetylene cylinder bundles – Filling conditions and filling inspection (ISO 13088:2011)  
Plinske boce – Baterije boca za acetilen – Uvjeti punjenja i pregled pri punjenju (ISO 13088:2011)
- EN 13445-3:2009/prA2 en  
Unfired pressure vessels – Part 3: Design  
Neložene tlačne posude – 3. dio: Projektiranje
- EN 13445-3:2009/prA5 en  
Unfired pressure vessels – Part 3: Design  
Neložene tlačne posude – 3. dio: Projektiranje
- EN 13445-4:2009/prA2 en  
Unfired pressure vessels – Part 4: Fabrication  
Neložene tlačne posude – 4. dio: Proizvodnja
- EN 13480-1:2012 en  
Metallic industrial piping – Part 1: General  
Metalni industrijski cjevovodi – 1. dio: Općenito
- EN 13480-2:2012 en  
Metallic industrial piping – Part 2: Materials  
Metalni industrijski cjevovodi – 2. dio: Materijali
- EN 13480-6:2012 en  
Metallic industrial piping – Part 6: Additional requirements for buried piping  
Metalni industrijski cjevovodi – 6. dio: Dodatni zahtjevi za ukopane cjevovode
- prEN 13480-8 en  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura
- EN ISO 15245-1:2001/prA1 en  
Gas cylinders – Parallel threads for connection of valves to gas cylinders – Part 1: Specification (ISO 15245-1:2001/DAM 1:2012)  
Plinske boce – Paralelni navoji za spajanje ventila i plinskih boca (ISO 15245-1:2001/DAM 1:2012)

FprEN 15888 en  
Transportable gas cylinders – Cylinder bundles –  
Periodic inspection and testing  
Prenosive plinske boce – Baterije boca – Periodični  
pregled i ispitivanje

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

EN 848-1:2007+A1:2009/FprA2 en  
Safety of woodworking machines – One side moulding  
machines with rotating tool – Part 1: Single spindle  
vertical moulding machines  
Sigurnost strojeva za obradu drva – Jednostrani  
strojevi za oblikovanje kalupa rotirajućim alatom –  
1. dio: Jednovretni strojevi za vertikalno oblikovanje  
kalupa

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

EN 1034-17:2012 en  
Safety of machinery – Safety requirements for the  
design and construction of paper making and finishing  
machines – Part 17: Tissue making machines

EN 1034-21:2012 en  
Safety of machinery – Safety requirements for the  
design and construction of paper making and finishing  
machines – Part 21: Coating machines

EN 1034-27:2012 en  
Safety of machinery – Safety requirements for the  
design and construction of paper making and finishing  
machines – Part 27: Roll handling systems

prEN 1539 rev en  
Dryers and ovens, in which flammable substances are  
released – Safety requirements  
Sušnice i peći u kojima se oslobađaju zapaljive tvari  
– Sigurnosni zahtjevi

prEN 1672-1 en  
Food processing machinery – Basic concepts – Part 1:  
Safety requirements

prEN 12268 rev en  
Food processing machinery – Band saw machines –  
Safety and hygiene requirements  
Strojevi za preradu hrane – Strojevi s tračnim pilama  
– Sigurnosni i higijenski zahtjevi

prEN 12463 rev en  
Food processing machinery – Filling machines and  
auxiliary machines – Safety and hygiene requirements  
Strojevi za preradu hrane – Strojevi za punjenje i  
pomoćni strojevi – Sigurnosni i higijenski zahtjevi

EN 13289:2001/FprA1 en  
Pasta processing plants – Dryers and coolers – Safety  
and hygiene requirements  
Pogoni za proizvodnju tjestenine – Uređaji za sušenje  
i hlađenje – Sigurnosni i higijenski zahtjevi

EN 13378:2001/FprA1 en  
Pasta processing plants – Pasta presses – Safety and  
hygiene requirements  
Pogoni za proizvodnju tjestenine – Preše za tjesteninu  
– Sigurnosni i higijenski zahtjevi

EN 13379:2001/FprA1 en  
Pasta processing plants – Spreader, stripping and  
cutting machine, stick return conveyor, stick magazine  
– Safety and hygiene requirements  
Pogoni za proizvodnju tjestenine – Stroj za razgrtanje,  
skidanje i rezanje, traka za vraćanje klipčića, spremnik  
za klipčić – Sigurnosni i higijenski zahtjevi

prEN ISO 13856-3 en  
Safety of machinery – Pressure-sensitive protective  
devices – Part 3: General principles for the design and  
testing of pressure-sensitive bumpers, plates, wires  
and similar devices (ISO/DIS 13856-3:2012)

prEN 15165 en  
Food processing machinery – Forming machines –  
Safety and hygiene requirements

FprEN 15429-2 en  
Sweepers – Part 2: Performance requirements and  
test methods

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

prEN 12822 en  
Foodstuffs – Determination of vitamin E by high  
performance liquid chromatography - Measurement of  
alpha-, beta-, gamma-, and delta-tocopherols  
Namirnice – Određivanje vitamina E tekućinskom  
kromatografijom visokog učinka – Mjerenje <alfa>-,  
<beta>-, <gama>- i <delta>-tokoferola

prEN 12823-1 en  
Foodstuffs – Determination of vitamin A by high  
performance liquid chromatography – Part 1:  
Measurement of all-trans-retinol and 13-cis-retinol  
Namirnice – Određivanje vitamina A tekućinskom  
kromatografijom visokog učinka – 1. dio: Mjerenje all-  
trans-retinola i 13-cis-retinola

prEN 14122 en  
Foodstuffs – Determination of vitamin B1 by HPLC  
(prEN 14122)  
Namirnice – Određivanje vitamina B1 metodom  
tekućinske kromatografije visokog učinka (HPLC)

prEN 14152 en  
Foodstuffs – Determination of vitamin B2 by HPLC  
(prEN 14152)  
Namirnice – Određivanje vitamina B2 metodom  
tekućinske kromatografije visokog učinka (HPLC)

prEN 14164 en  
Foodstuffs – Determination of vitamin B6 by HPLC  
Namirnice – Određivanje vitamina B6 HPLC-om

prEN ISO 21572 en  
Foodstuffs – Molecular biomarker analysis – Protein-  
based methods (ISO/DIS 21572:2012)

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

EN 60601-1:2006/A11:2011 en  
Medical electrical equipment – Part 1: General  
requirements for basic safety and essential performance  
Medicinski električni uređaji – 1. dio: Opći zahtjevi za  
osnovnu sigurnost i bitne radne značajke

EN 60601-2-19:2009/A11:2011 en  
Medical electrical equipment – Part 2-19: Particular  
requirements for the basic safety and essential  
performance of infant incubators  
Medicinski električni uređaji – Dio 2-19: Posebni  
zahtjevi za osnovnu sigurnost i bitne radne značajke  
inkubatora za novorođenčad

EN 60601-2-20:2009/A11:2011 en  
Medical electrical equipment – Part 2-20: Particular  
requirements for the basic safety and essential  
performance of infant transport incubators  
Medicinski električni uređaji – Dio 2-20: Posebni  
zahtjevi za osnovnu sigurnost i bitne radne značajke  
prijevoznih inkubatora za novorođenčad

EN 60601-2-21:2009/A11:2011 en  
Medical electrical equipment – Part 2-21: Particular  
requirements for the basic safety and essential  
performance of infant radiant warmers  
Medicinski električni uređaji – Dio 2-21: Posebni  
zahtjevi za osnovnu sigurnost i bitne radne značajke  
za grijače novorođenčadi koji griju zračenjem

EN 60601-2-2:2009/A11:2011 en  
Medical electrical equipment – Part 2-2: Particular  
requirements for the basic safety and essential  
performance of high frequency surgical equipment  
and high frequency surgical accessories  
Medicinski električni uređaji – Dio 2-2: Posebni  
zahtjevi za osnovnu sigurnost i bitne radne  
značajke visokofrekvencijskih kirurških uređaja i  
visokofrekvencijskih kirurških pribora

- EN 60601-2-29:2008/A11:2011 en  
Medical electrical equipment – Part 2-29: Particular requirements for the basic safety and essential performance of radiotherapy simulators  
Medicinski električni uređaji – Dio 2-29: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke radioterapijskih simulatora
- EN 60601-2-31:2008/A1:2011 en  
Medical electrical equipment – Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source  
(IEC 60601-2-31:2018/am1:2011)  
Medicinski električni uređaji – Dio 2-31: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke vanjskih elektrostimulatora srca s vlastitim izvorom napajanja (IEC 60601-2-31:2018/am1:2011)
- EN 60601-2-33:2010/A11:2011 en  
Medical electrical equipment – Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis  
Medicinski električni uređaji – Dio 2-33: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za medicinsku dijagnostiku s pomoću magnetske rezonancije
- EN 60601-2-37:2008/A11:2011 en  
Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment  
Medicinski električni uređaji – Dio 2-37: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke ultrazvučne opreme za dijagnostiku i nadzor
- EN 60601-2-39:2008/A11:2011 en  
Medical electrical equipment – Part 2-39: Particular requirements for basic safety and essential performance of peritoneal dialysis equipment  
Medicinski električni uređaji – Dio 2-39: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za peritonealnu dijalizu
- EN 60601-2-4:2011 en  
Medical electrical equipment – Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators  
(IEC 60601-2-4:2010)  
Medicinska električni uređaji – Dio 2-4: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke srčanih defibrilatora (IEC 60601-2-4:2010)
- EN 60601-2-41:2009/A11:2011 en  
Medical electrical equipment – Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis  
Medicinski električni uređaji – Dio 2-41: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke kirurške i dijagnostičke opreme za osvjetljavanje
- EN 60601-2-44:2009/A11:2011 en  
Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography  
Medicinska električna oprema – Dio 2-44: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke rendgenske opreme za kompjutoriziranu tomografiju
- EN 60601-2-46:2011 en  
Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables  
(IEC 60601-2-46:2010)  
Medicinska električni uređaji – Dio 2-46: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke operacijskih stolova (IEC 60601-2-46:2010)
- EN 60601-2-50:2009/A11:2011 en  
Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment  
Medicinski električni uređaji – Dio 2-50: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za fototerapiju novorođenčadi
- EN 60731:2012 en  
Medical electrical equipment – Dosimeters with ionization chambers as used in radiotherapy  
(IEC 60731:2011)  
Medicinska električna oprema – Dozimetri s ionizacijskim komorama koji se upotrebljavaju u radioterapiji (IEC 60731:2011)
- EN 61217:2012 en  
Radiotherapy equipment – Coordinates, movements and scales (IEC 61217:2011)  
Radioterapijski uređaji – Koordinate, pokretanja i skale (IEC 61217:2011)
- EN 80601-2-35:2009/A11:2011 en  
Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use  
Medicinska električna oprema – Dio 2-35: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za grijanje koji upotrebljavaju pokrivače, jastuke i madrace, a namijenjeni su za grijanje u medicinske svrhe
- EN 80601-2-58:2009/A11:2011 en  
Medical electrical equipment – Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery  
Medicinska električna oprema – Dio 2-58: Posebni zahtjevi za osnovnu sigurnost i bitne radne značajke uređaja za uklanjanje leća i uređaja za vitrektomiju za oftalmološku kirurgiju

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

- EN 60730-1:2011 en  
Automatic electrical controls for household and similar use – Part 1: General requirements  
(IEC 60730-1:2010, MOD)  
Električne naprave za automatsko upravljanje u kućanstvu i sličnu uporabu – 1. dio: Opći zahtjevi (IEC 60730-1:2010, MOD)

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

- EN 50173-1:2011 en  
Information technology – Generic cabling systems – Part 1: General requirements  
Informacijska tehnologija – Generički sustavi kabliranja – 1. dio: Opći zahtjevi

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

- EN 300 019-2-2 V2.2.1:2012 en  
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-2: Specification of environmental tests – Transportation  
Tehnologija za zaštitu okoliša (EE) – Okolišni uvjeti i ispitivanja za telekomunikacijsku opremu – Dio 2-2: Specifikacije testova okoliša – Prijevoz
- EN 300 132-2 V2.4.6:2011 en  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications and datacom (ICT) equipment – Part 2: Operated by -48 V direct current (DC)  
Tehnologija za zaštitu okoliša (EE) – Sučelje napajanja na ulazu informacijsko-komunikacijske (ICT) opreme – 2. dio: Rad s istosmjernom strujom (DC) napona -48 V



- EN 300 132-3-0 V2.1.1:2012 en  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications and datacom (ICT) equipment – Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V – Sub-part 0: Overview  
Tehnologija za zaštitu okoliša (EE) – Sučelje izvora napajanja na ulazu telekomunikacijske i podatkovne (ICT) opreme – 3. dio: Pogonjeno izvorom ispravljene struje, izvorom izmjenične struje ili izvorom istosmjerne struje do 400 V – 0. poddio : Pregled
- EN 300 132-3-1 V2.1.1:2012 en  
Environmental Engineering (EE) – Power supply interface at the input to telecommunications and datacom (ICT) equipment – Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V – Sub-part 1: Direct current source up to 400 V  
Tehnologija za zaštitu okoliša (EE) – Sučelje izvora napajanja na ulazu telekomunikacijske i podatkovne (ICT) opreme – 3. dio: Pogonjeno izvorom ispravljene struje, izvorom izmjenične struje ili izvorom istosmjerne struje do 400 V – 1. poddio : Izvor istosmjerne struje do 400 V
- EN 300 220-1 V2.4.1:2012 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW – Part 1: Technical characteristics and test methods  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema u uporabi u frekvencijskome području od 25 MHz do 1000 MHz s razinama snage do 500 mW – 1. dio: Tehničke značajke i metode ispitivanja
- EN 300 220-2 V2.4.1:2012 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW – Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa (SRD) – Radijska oprema u uporabi u frekvencijskome području od 25 MHz do 1000 MHz s razinama snage do 500 mW – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE
- EN 300 392-12-13 V1.2.1:2012 en  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 13: Call Completion to Busy Subscriber (CCBS)  
Terestrijalni trunking radio (TETRA) – Glas i podatci (V+D) – 12. dio: 3. stupanj dodatnih usluga – 13. poddio: Zaključenje poziva poslovnomu korisniku (CCBS)
- EN 300 392-12-14 V1.2.1:2012 en  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 14: Late Entry (LE)  
Terestrijalni trunking radio (TETRA) – Glas i podatci (V+D) – 12. dio: 3. stupanj dodatnih usluga – 14. poddio: Zakašnjeli ulaz (LE)
- EN 300 396-1 V1.2.1:2011 en  
Terrestrial Trunked Radio (TETRA) – Technical requirements for Direct Mode Operation (DMO) – Part 1: General network design  
Terestrijalni trunking radio (TETRA) – Tehnički zahtjevi za rad u izravnome načinu (DMO) – 1. dio: Zamisao opće mreže
- EN 300 396-2 V1.4.1:2011 en  
Terrestrial Trunked Radio (TETRA) – Technical requirements for Direct Mode Operation (DMO) – Part 2: Radio aspects  
Terestrijalni trunking radio (TETRA) – Tehnički zahtjevi za rad u izravnome načinu (DMO) – 2. dio: Aspekti radijski
- EN 300 396-3 V1.4.1:2011 en  
Terrestrial Trunked Radio (TETRA) – Technical requirements for Direct Mode Operation (DMO) – Part 3: Mobile Station to Mobile Station (MS-MS) Air Interface (AI) protocol  
Terestrijalni trunking radio (TETRA) – Tehnički zahtjevi za rad u izravnome načinu (DMO) – 3. dio: Protokol zračnoga sučelja(AI) Pokretna postaja-pokretna postaja (MS-MS)
- EN 300 396-4 V1.4.1:2011 en  
Terrestrial Trunked Radio (TETRA) – Technical requirements for Direct Mode Operation (DMO) – Part 4: Type 1 repeater air interface  
Terestrijalni trunking radio (TETRA) – Tehnički zahtjevi za rad u izravnome načinu (DMO) – 4. dio: Zračno sučelje repetitora 1. vrste
- EN 300 396-5 V1.3.1:2011 en  
Terrestrial Trunked Radio (TETRA) – Technical requirements for Direct Mode Operation (DMO) – Part 5: Gateway air interface  
Terestrijalni trunking radio (TETRA) – Tehnički zahtjevi za rad u izravnome načinu (DMO) – 5. dio: Zračno sučelje za pristup mreži
- EN 300 422-1 V1.4.2:2011 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Wireless microphones in the 25 MHz to 3 GHz frequency range – Part 1: Technical characteristics and methods of measurement  
Elektromagnetska kompatibilnost i radiofrekvencijski spektar (ERM) – Bežični mikrofoni u frekvencijskome području od 25 MHz do 3GHz – 1. dio: Tehničke značajke i metode ispitivanja
- EN 300 468 V1.12.1:2011 en  
Digital Video Broadcasting (DVB) – Specification for Service Information (SI) in DVB systems – Digital Video Broadcasting (DVB) – Subtitling systems  
Digitalna videoradiodifuzija (DVB) – Specifikacija za informacijske usluge (SI) u sustavima DVB – Digitalna videoradiodifuzija (DVB) – Sustavi podtitlovanja
- EN 300 743 V1.4.1:2011 en  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 1: EN for ground equipment  
Digitalna VHF veza zrak-zemlja (VDL) Mod 4 – Tehničke značajke i mjerne metode za opremu na tlu – 1. dio: EN za opremu na tlu
- EN 300 753 V1.3.1:2012 en  
Environmental Engineering (EE) – Acoustic noise emitted by telecommunications equipment  
Tehnologija za zaštitu okoliša (EE) – Akustični šum koji odašilje telekomunikacijska oprema
- EN 301 444 V1.2.1:2012 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 EN norma za kopnene pokretne zemaljske postaje (LMES) koje rade u pojasovima od 1,5 GHz i 1,6 GHz za glasovnu i podatkovnu komunikaciju, obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE

- EN 301 545-2 V1.1.1:2012 en  
Digital Video Broadcasting (DVB) – Second Generation DVB Interactive Satellite System (DVB-RCS2) – Part 2: Lower Layers for Satellite standard  
Digitalna videodifuzija (DVB) – Druga generacija interaktivnoga satelitskog sustava DVB (DVB-RCS2) – 2. dio: Niži slojevi za satelitsku normu
- EN 301 575 V1.1.1:2012 en  
Environmental Engineering (EE) – Measurement method for energy consumption of Customer Premises Equipment (CPE)  
Tehnologija za zaštitu okoliša (EE) – Metode mjerenja potrošnje energije opreme smještene kod korisnika (CPE)
- EN 301 649 V2.2.1:2012 en  
Digital Enhanced Cordless Telecommunications (DECT) – DECT Packet Radio Service (DPRS)  
Digitalne poboljšane bežične telekomunikacije (DECT) – Paketna radijska DECT usluga (DPRS)
- EN 301 842-1 V1.3.4:2011 en  
VHF air-ground Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for ground-based equipment – Part 1: EN for ground equipment  
Digitalna VHF veza zemlja-zrak (VDL) Mod 4 – Tehničke značajke i mjerne metode za opremu na tlu – 1. dio: EN za opremu na tlu
- EN 302 288-1 V1.6.1:2012 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices – Road Transport and Traffic Telematics (RTTT) – Short range radar equipment operating in the 24 GHz range – Part 1: Technical requirements and methods of measurement  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa – Telematika cestovnoga prijevoza i prometa (RTTT) – Kratkodometna radarska oprema u području od 24 GHz – 1. dio: Tehnički zahtjevi i metode mjerenja
- EN 302 288-2 V1.6.1:2012 en  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices – Road Transport and Traffic Telematics (RTTT) – Short range radar equipment operating in the 24 GHz range – Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Elektromagnetska kompatibilnost i radijski spektar (ERM) – Uređaji kratkoga dometa – Telematika cestovnoga prijevoza i prometa (RTTT) – Kratkodometna radarska oprema u području od 24 GHz – 2. dio: Harmonizirana EN norma obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE
- EN 302 567 V1.2.1:2012 en  
Broadband Radio Access Networks (BRAN) – 60 GHz Multiple-Gigabit WAS/RLAN Systems – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Mreže sa širokopojsnim radijskim pristupom (BRAN) – Višegigabitni sustavi WAS/RLAN u frekvencijskome pojasu od 80 GHz – Harmonizirana EN norma obuhvaća bitne zahtjeve članka 3.2 Direktive R&TTE
- EN 302 583 V1.2.1:2011 en  
Digital Video Broadcasting (DVB) – Framing Structure, channel coding and modulation for Satellite Services to Handheld devices (SH) below 3 GHz  
Digitalna videodifuzija (DVB) – Popratna struktura, modulacija i kanalno kodiranje za satelitske službe, ručni uređaji (SH) ispod 3 GHz
- EN 302 774 V1.2.1:2012 en  
Broadband Wireless Access Systems (BWA) in the 3400 MHz to 3800 MHz frequency band – Base Stations – Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive  
Sustavi širokopojsnoga bežičnoga pristupa (BWA) u frekvencijskome pojasu od 3400 MHz do 3800 MHz – Bazne postaje – Usklađena EN norma obuhvaća bitne zahtjeve iz članka 3.2 Direktive R&TTE
- EN 302 842-1 V1.2.4:2011 en  
VHF air-ground and air-air Digital Link (VDL) Mode 4 radio equipment – Technical characteristics and methods of measurement for aeronautical mobile (airborne) equipment – Part 1: Physical layer  
Digitalna VHF veza (VDL) zrak-zemlja i zrak-zrak, 4. način – Tehničke značajke i metode mjerenja za aeronautičku pokretnu (zrakoplovnu) opremu – 1. dio: Fizički sloj
- HZN/TO Z1, Informacijska tehnologija**
- EN 1332-1:2009 en  
Identification card systems – Human-machine interface – Part 1: Design principles for the user interface  
Sustavi identifikacijskih kartica – Sučelje čovjek-stroj – 1. dio: Načela dizajniranja korisničkog sučelja
- CR 1750:1999 en  
Identification card systems – Inter-sector messages between devices and hosts – Acceptor to acquirer messages  
Sustavi identifikacijskih kartica – Međusektorske poruke između uređaja i glavnih računala – Poruke primatelja stjecatelju
- CR 13643:2000 en  
Machine readable cards – Healthcare applications – Logical data structures and concepts for different card technologies for use by patients in health applications  
Strojno čitljive kartice – Primjene u zdravstvu – Logičke strukture i koncepti podataka za različite kartične tehnologije za uporabu od strane pacijenata u zdravstvenim aplikacijama
- CR 13644:2000 en  
Machine readable cards – Healthcare applications – Logical organisation of data on healthcare professional cards  
Strojno čitljive kartice – Primjene u zdravstvu – Logička organizacija podataka na profesionalnim zdravstvenim karticama
- CR 13875:2000 en  
Identification card systems – Intersector thin flexible cards – Security features  
Sustavi identifikacijskih kartica – Međusektorske tanke fleksibilne kartice – Sigurnosne značajke
- CR 13909:2000 en  
Identification card systems – Intersector thin flexible cards – Acceptance criteria  
Sustavi identifikacijskih kartica – Međusektorske tanke fleksibilne kartice – Kriteriji za prihvaćanje
- ENV 14062-2:2001 en  
Identification card systems – Surface transport applications – Electronic fee collection – Part 2: Message requirements  
Sustavi identifikacijskih kartica – Primjene u kopnenome prijevozu – Elektronička naplata – 2. dio: Zahtjevi poruka
- EN 14890-1:2008 en  
Application Interface for smart cards used as Secure Signature Creation Devices – Part 1: Basic services  
Aplikacijsko sučelje za pametne kartice koje se upotrebljavaju kao uređaji za kreiranje sigurnog potpisa – 1. dio: Osnovne usluge
- prEN 14890-1 en  
Application Interface for smart cards used as Secure Signature Creation Devices – Part 1: Basic services  
Aplikacijsko sučelje za pametne kartice koje se upotrebljavaju kao uređaji za kreiranje sigurnog potpisa – 1. dio: Osnovne usluge

EN 14890-2:2008 en  
Application Interface for smart cards used as Secure Signature Creation Devices – Part 2: Additional Services  
Aplikacijsko sučelje za pametne kartice koje se upotrebljavaju kao uređaji za kreiranje sigurnog potpisa – 2. dio: Dodatne usluge

prEN 14890-2 en  
Application Interface for smart cards used as Secure Signature Creation Devices – Part 2: Additional Services  
Aplikacijsko sučelje za pametne kartice koje se upotrebljavaju kao uređaji za kreiranje sigurnog potpisa – 2. dio: Dodatne usluge

CEN/TS 15291:2006 en  
Identification card system – Guidance on design for accessible card-activated devices  
Sustavi identifikacijskih kartica – Vodič za dizajn dostupnih uređaja koji se aktiviraju karticom

CEN/TS 15480-1:2007 en  
Identification card systems – European Citizen Card – Part 1: Physical, electrical and transport protocol characteristics  
Sustavi identifikacijskih kartica – Europska osobna iskaznica – 1. dio: Fizičke karakteristike i karakteristike električnih i transportnih protokola

CEN/TS 15480-2:2012 en  
Identification card systems – European Citizen Card – Part 2: Logical data structures and security services  
Sustavi identifikacijskih kartica – Europska osobna iskaznica – 2. dio: Logička struktura podataka i sigurnosne usluge

CEN/TS 15480-3:2010 en  
Identification card systems – European Citizen Card – Part 3: European Citizen Card Interoperability using an application interface  
Sustavi identifikacijskih kartica – Europska osobna iskaznica – 3. dio: Interoperabilnost europske osobne iskaznice pomoću aplikacijskog sučelja

CEN/TS 15480-4:2012 en  
Identification card systems – European Citizen Card – Part 4: Recommendations for European Citizen Card issuance, operation and use  
Sustavi identifikacijskih kartica – Europska osobna iskaznica – 4. dio: Preporuke za izdavanje, rukovanje i upotrebu europske osobne iskaznice

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

FprEN 13200-6 en  
Spectator facilities – Part 6 : Demountable (temporary) stands

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

prEN 16425 en  
Simple Publishing Interface

prEN 16426 en  
Simple Query Interface

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

prEN ISO 3164 rev en  
Earth-moving machinery – Laboratory evaluations of protective structures – Specifications for deflection-limiting volume (ISO/DIS 3164:2012)

prEN ISO 9806 en  
Solar energy – Solar thermal collectors – Test methods (ISO/DIS 9806:2012)

prEN 12643 rev en  
Earth-moving machinery – Rubber-tyred machines – Steering requirements (ISO 5010:1992, MOD)

prEN 12881-1 en  
Conveyor belts – Fire simulation flammability testing – Part 1: Propane burner tests

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

prEN ISO 13517 en  
Metallic powders – Determination of flowrate by means of a calibrated funnel (Gustavsson flowmeter) (ISO/DIS 13517:2012)

FprEN ISO 13944 en  
Lubricated metal-powder mixes – Determination of lubricant content – Soxhlet extraction method (ISO/FDIS 13944:2012)

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

EN ISO 7405:2008/prA1 en  
Dentistry – Evaluation of biocompatibility of medical devices used in dentistry – Amendment 1 (ISO 7405:2008/DAM 1:2012)

prEN ISO 16498 en  
Dentistry – Minimal dental implant data set for clinical use (ISO/DIS 16498:2012)

EN ISO 21536:2009/prA1 en  
Non-active surgical implants – Joint replacement implants – Specific requirements for knee-joint replacement implants – Amendment 1 (ISO 21536:2007/DAM 1:2012)

prEN ISO 29022 en  
Dentistry – Adhesion – Notched-edge shear bond strength test (ISO/DIS 29022:2012)

FprEN ISO 80601-2-56 en  
Medical electrical equipment – Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement (ISO 80601-2-56:2009)

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

prEN 1459-3 en  
Rough-terrain trucks – Safety requirements and verification – Part 3: Additional requirements for variable reach trucks fitted with elevating work platform

EN 2133:2010 en  
Aerospace series – Cadmium plating of steels with specified tensile strength = 1450 MPa, copper, copper alloys and nickel alloys

EN 2434-002:2010 en  
Aerospace series – Paints and varnishes – Two component cold curing polyurethane finish – Part 002: High chemical resistance

EN 2434-003:2010 en  
Aerospace series – Paints and varnishes – Two component cold curing polyurethane finish – Part 003: Flexible and high fluid resistance for interior

EN 2434-004:2010 en  
Aerospace series – Paints and varnishes – Two component cold curing polyurethane finish – Part 004: High flexibility

EN 3155-032:2009 en  
Aerospace series – Electrical contacts used in elements of connection – Part 032: Contacts, electrical, coaxial, 50 ohms, size 5, male, type D, crimp, class R – Product standard

EN 3660-065:2009 en  
Aerospace series – Cable outlet accessories for circular and rectangular electrical and optical connectors – Part 065: Cable outlet, style K, 90°, for heat shrinkable boot, shielded, sealed, self-locking for EN 2997 and EN 4067 – Product standard

EN ISO 3691-1:2012 en  
Industrial trucks – Safety requirements and verification – Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011)

- EN 3730:2009 en  
Aerospace series – Clamps, saddle fixed and sliding version in aluminium alloy with rubber cushioning – Dimension, masses
- EN 4604-002:2009 en  
Aerospace series – Cable, electrical, for signal transmission – Part 002 : General
- EN 4604-008:2009 en  
Aerospace series – Cable, electrical, for signal transmission – Part 008: Cable, coaxial, 50 ohms, 200°C, Type WD – Product standard
- EN 6069:2009 en  
Aerospace series – Rivet, 100° reduced flush head, close tolerance – Inch series

## HZN/TU V1, *Elektronika 1*

- EN 50556:2011 en  
Road traffic signal systems  
Signalni sustavi cestovnog prometa

## 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 8, *Brodogradnja*

- HRN EN 1570:2009 en  
Zahtjevi za sigurnost za podizne stolove (EN 1570:1998+A2:2009)  
Safety requirements for lifting tables (EN 1570:1998+A2:2009)  
- zamijenjena s: HRN EN 1570-1:2012
- HRN EN ISO 11591:2001 en  
Motorna mala plovila – Preglednost s mjesta upravljanja (ISO 11591:2000; EN ISO 11591:2000)  
Small craft engine driven – Field of vision from helm position (ISO 11591:2000; EN ISO 11591:2000)  
- zamijenjena s: HRN EN ISO 11591:2012

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

- HRN EN 54-25:2008/Ispr.1:2011 en  
Sustavi za otkrivanje i dojavu požara – 25. dio: Dijelovi koje upotrebljavaju radio veze (EN 54-25:2008/AC:2010)  
Fire detection and fire alarm systems – Part 25: Components using radio links (EN 54-25:2008/AC:2010)  
- bez zamjene

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

- HRN EN 589:2012 en  
Goriva za motorna vozila – UNP – Zahtjevi i metode ispitivanja (EN 589:2008+A1:2012)  
Automotive fuels – LPG – Requirements and test methods (EN 589:2008+A1:2012)  
- zamijenjena s: HRN EN 589:2012 (hr)
- HRN ISO 1998-1:1998 hr,en,fr,ru  
Naftna industrija – Rječnik – 1. dio (ISO 1998-1:1974)  
Petroleum industry – Vocabulary – Part 1 (ISO 1998-1:1974)  
- zamijenjena s: HRN ISO 1998-1:2012
- HRN EN ISO 4404-1:2008 en  
Nafta i srodni proizvodi – Određivanje otpornosti na koroziju vatrootpornih hidrauličkih tekućina – 1. dio: Tekućine koje sadrže vodu (ISO 4404-1:2001; EN ISO 4404-1:2006)

- Petroleum and related products – Determination of the corrosion resistance of fire-resistant hydraulic fluids – Part 1: Water-containing fluids (ISO 4404-1:2001; EN ISO 4404-1:2006)  
- zamijenjena s: HRN EN ISO 4404-1:2012

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

- HRN EN 440:1997 hr  
Dodatni materijali za zavarivanje – Žice za elektrolučno zavarivanje metalnom taljivom elektrodom u zaštitnoj atmosferi plinova i metal zavara, namijenjeni za nelegirane i sitnozrnate čelike – Razvrstavanje (EN 440:1994)  
Welding consumables – Wire electrodes and deposits for gas shielded metal arc welding of non alloy and fine grain steels – Classification (EN 440:1994)

### HZN/TO 71, *Beton*

- HRN EN 934-3:2010 en  
Dodaci betonu, mortu i smjesi za injektiranje – 3. dio: Dodaci mortu za zidanje – Definicije, zahtjevi, sukladnost, označavanje i obilježavanje (EN 934-3:2009)  
Admixtures for concrete, mortar and grout – Part 3: Admixtures for masonry mortar – Definitions, requirements, conformity and marking and labelling (EN 934-3:2009)  
- zamijenjena s: HRN EN 934-3:2012

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

- HRN EN 14511-1:2008 en  
Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 1. dio: Nazivi i definicije (EN 14511-1:2007)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 1: Terms and definitions (EN 14511-1:2007)  
- zamijenjena s: HRN EN 14511-1:2012
- HRN EN 14511-2:2008 en  
Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 2. dio: Ispitni uvjeti (EN 14511-2:2007)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions (EN 14511-2:2007)  
- zamijenjena s: HRN EN 14511-2:2012
- HRN EN 14511-3:2008 en  
Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 3. dio: Ispitne metode (EN 14511-3:2007+AC:2008)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 3: Test methods (EN 14511-3:2007+AC:2008)  
- zamijenjena s: HRN EN 14511-3:2012
- HRN EN 14511-4:2008 en  
Klimatizacijski uređaji, rashladnici kapljevina i dizalice topline s kompresorima na električni pogon za grijanje i hlađenje prostora – 4. dio: Zahtjevi (EN 14511-4:2007)  
Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 4: Requirements (EN 14511-4:2007)  
- zamijenjena s: HRN EN 14511-4:2012

## **HZN/TO 92, Zaštita od požara**

HRN EN 1363-1:2002 en  
Ispitivanja otpornosti na požar – 1. dio: Opći zahtjevi (EN 1363-1:1999)  
Fire resistance tests – Part 1: General requirements (EN 1363-1:1999)  
- zamijenjena s: HRN EN 1363-1:2012

HRS ENV 13381-6:2008 en  
Ispitne metode za određivanje doprinosa otpornosti na požar konstrukcijskih elemenata – 6. dio: Zaštita primjenjena na šupljim čeličnim stupovima ispunjenim betonom (ENV 13381-6:2002)  
Test methods for determining the contribution to the fire resistance of structural members – Part 6: Applied protection to concrete filled hollow steel columns (ENV 13381-6:2002)  
- zamijenjena s: HRN EN 13381-6:2012

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

HRN EN ISO 15001:2010 en  
Anestetička i respiracijska oprema – Kompatibilnost s kisikom (ISO 15001:2010; EN ISO 15001:2010)  
Anaesthetic and respiratory equipment – Compatibility with oxygen (ISO 15001:2010; EN ISO 15001:2010)  
- zamijenjena s: HRN EN ISO 15001:2012

## **HZN/TO 136, Namještaj**

HRN EN 747-1:2008 en  
Namještaj – Kreveti na kat i povišeni kreveti za kućnu uporabu – 1. dio: Zahtjevi za sigurnost, čvrstoću i izdržljivost (EN 747-1:2007)  
Furniture – Bunk beds and high beds for domestic use – Part 1: Safety, strength and durability requirements (EN 747-1:2007)  
- zamijenjena s: HRN EN 747-1:2012

HRN EN 747-2:2008 en  
Namještaj – Kreveti na kat i povišeni kreveti za kućnu uporabu – 2. dio: Metode ispitivanja (EN 747-2:2007)  
Furniture – Bunk beds and high beds for domestic use – Part 2: Test methods (EN 747-2:2007)  
- zamijenjena s: HRN EN 747-2:2012

HRN EN 1728:2001 en  
Kućni namještaj – Namještaj za sjedenje – Metode ispitivanja za određivanje čvrstoće i trajnosti (EN 1728:2000)  
Domestic furniture – Seating – Test methods for the determination of strength and durability (EN 1728:2000)  
- zamijenjena s: HRN EN 1728:2012

HRN ENV 13759:2001 en  
Kućni namještaj – Namještaj za sjedenje – Metode ispitivanja za određivanje trajnosti nagibnih i/ili zibajućih mehanizama i funkcijskih mehanizama za promjenu iz sjedećega u ležeći položaj (ENV 13759:2000)  
Domestic furniture – Seating – Test method for the determination of the durability of reclining and/or titling mechanisms and operating mechanisms for convertible sofa beds (ENV 13759:2000)  
- zamijenjena s: HRN EN 13759:2012

HRN EN 14988-1:2008 en  
Namještaj – Dječje visoke stolice – 1. dio: Sigurnosni zahtjevi (EN 14988-1:2006)  
Furniture – Children's high chairs – Part 1: Safety requirements (EN 14988-1:2006)  
- zamijenjena s: HRN EN 14988-1:2012

HRN EN 14988-2:2008 en  
Namještaj – Dječje visoke stolice – 2. dio: Metode ispitivanja (EN 14988-2:2006)  
Furniture – Children's high chairs – Part 2: Test methods (EN 14988-2:2006)  
- zamijenjena s: HRN EN 14988-2:2012

HRS CEN/TS 15186:2008 en  
Namještaj – Procjena otpornosti površine na ogrebotine (CEN/TS 15186:2005)  
Furniture – Assessment of the surface resistance to scratching (CEN/TS 15186:2005)  
- zamijenjena s: HRN EN 15186:2012

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

HRN ENV 1329-2:2001 en  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Ocjena sukladnosti (ENV 1329-2:2001)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Assessment of conformity (ENV 1329-2:2001)  
- zamijenjena s: HRS CEN/TS 1329-2:2012

HRN ENV 1401-2:2000 en  
Plastični cijevni sustavi za netlačnu podzemnu odvodnju i kanalizaciju – Neomekšani poli(vinil-klorid) (PVC-U) – 2. dio: Uputa za ocjenu sukladnosti (ENV 1401-2:2000)  
Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U) – Part 2: Guidance for assessment of conformity (ENV 1401-2:2000)  
- zamijenjena s: HRS CEN/TS 1401-2:2012

HRN ENV 1455-2:2003 en  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoka temperatura) unutar građevinskih konstrukcija – Akrilonitril/butadien/stiren (ABS) – 2. dio: Upute za ocjenu sukladnosti (ENV 1455-2:2001)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS) – Part 2: Guidance for the assessment of conformity (ENV 1455-2:2001)  
- zamijenjena s: HRS CEN/TS 1455-2:2012

HRN ENV 1565-2:2003 en  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Mješavine kopolimera stirena (SAN+PVC) – 2. dio: Upute za ocjenu sukladnosti (ENV 1565-2:2001)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Styrene copolymer blends (SAN+PVC) – Part 2: Guidance for the assessment of conformity (ENV 1565-2:2001)  
- zamijenjena s: HRS CEN/TS 1565-2:2012

HRN ENV 1566-2:2003 en  
Plastični cijevni sustavi za odvodnju onečišćenih i otpadnih voda (niske i visoke temperature) unutar građevinskih konstrukcija – Klorirani poli(vinil-klorid) (PVC-C) – 2. dio: Upute za ocjenu sukladnosti (ENV 1566-2:2001)  
Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly(vinyl chloride) (PVC-C) – Part 2: Guidance for the assessment of conformity (ENV 1566-2:2001)  
- zamijenjena s: HRS CEN/TS 1566-2:2012

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

HRN EN ISO 14403:2008 en  
Kakvoća vode – Određivanje ukupnih i slobodnih cijanida kontinuiranom protočnom analizom (ISO 14403:2002; EN ISO 14403:2002)

Water quality – Determination of total cyanide and free cyanide by continuous flow analysis (ISO 14403:2002; EN ISO 14403:2002)

- zamijenjena s: HRN EN ISO 14403-2:2012

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

HRN EN ISO 10077-2:2004 en

Toplinske značajke prozora, vrata i zaslona – Proračun koeficijenta prolaska topline – 2. dio: Numerička metoda za okvire (ISO 10077-2:2003; EN ISO 10077-2:2003)

Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames (ISO 10077-2:2003; EN ISO 10077-2:2003)

- zamijenjena s: HRN EN ISO 10077-2:2012

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

HRN EN 408:2011 en

Drvene konstrukcije – Konstrukcijsko drvo i lijepljeno lamelirano drvo – Određivanje fizikalnih i mehaničkih svojstava (EN 408:2010)

Timber structures – Structural timber and glued laminated timber – Determination of some physical and mechanical properties (EN 408:2010)

- zamijenjena s: HRN EN 408:2012

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

HRN EN 846-5:2003 en

Metode ispitivanja pomoćnih dijelova zida – 5. dio: Određivanje vlačne i tlačne nosivosti i značajka pomaka zidnih spona (ispitivanje u paru) (EN 846-5:2000)

Methods of test for ancillary components for masonry – Part 5: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (couple test) (EN 846-5:2000)

- zamijenjena s: HRN EN 846-5:2012

HRN EN 846-6:2003 en

Metode ispitivanja pomoćnih dijelova zida – 6. dio: Određivanje vlačne i tlačne nosivosti i značajka pomaka zidnih spona (pojedinačno ispitivanje) (EN 846-6:2000)

Methods of test for ancillary components for masonry – Part 6: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (single end test) (EN 846-6:2000)

- zamijenjena s: HRN EN 846-6:2012

HRN EN 846-7:2003 en

Metode ispitivanja pomoćnih dijelova zida – 7. dio: Određivanje posmične nosivosti i značajka odnosa opterećenja i pomaka posmičnih i kliznih spona (ispitivanje u paru veza sa sljubnicom) (EN 846-7:2000)

Methods of test for ancillary components for masonry – Part 7: Determination of shear load capacity and load displacement characteristics of shear ties and slip ties (couplet test for mortar joint connections) (EN 846-7:2000)

- zamijenjena s: HRN EN 846-7:2012

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

HRN EN 1888:2004 en

Proizvodi za dojenčad i malu djecu – Prijevozna sredstva na kotačima za djecu – Sigurnosni zahtjevi i metode ispitivanja (EN 1888:2003)

Child care articles – Wheeled child conveyances – Safety requirements and test methods (EN 1888:2003)

- zamijenjena s: HRN EN 1888:2012

HRN EN 1888:2004/A1:2008 en

Proizvodi za dojenčad i malu djecu – Prijevozna sredstva na kotačima za djecu – Sigurnosni zahtjevi i metode ispitivanja (EN 1888:2003/A1:2005)

Child care articles – Wheeled child conveyances – Safety requirements and test methods

(EN 1888:2003/A1:2005)

- zamijenjena s: HRN EN 1888:2012

HRN EN 1888:2004/A2:2008 en

Proizvodi za dojenčad i malu djecu – Prijevozna sredstva na kotačima za djecu – Sigurnosni zahtjevi i metode ispitivanja (EN 1888:2003/A2:2005)

Child care articles – Wheeled child conveyances – Safety requirements and test methods (EN 1888:2003/A2:2005)

- zamijenjena s: HRN EN 1888:2012

HRN EN 1888:2004/A3:2008 en

Proizvodi za dojenčad i malu djecu – Prijevozna sredstva na kotačima za djecu – Sigurnosni zahtjevi i metode ispitivanja (EN 1888:2003/A3:2005)

Child care articles – Wheeled child conveyances – Safety requirements and test methods (EN 1888:2003/A3:2005)

- zamijenjena s: HRN EN 1888:2012

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

HRN EN 1317-5:2009 en

Zaštitni cestovni sustavi – 5. dio: Zahtjevi za proizvod i ocjenjivanje sukladnosti za zaštitne cestovne sustave (EN 1317-5:2007+A1:2008)

Road restraint systems – Part 5: Product requirements and evaluation of conformity for vehicle restraint systems (EN 1317-5:2007+A1:2008)

- zamijenjena s: HRN EN 1317-5:2012

### **HZN/TO 521, Usluge održavanja**

HRN EN 15221-1:2007 en

Facility Management – 1. dio: Nazivi i definicije (EN 15221-1:2006)

Facility Management – Part 1: Terms and definitions (EN 15221-1:2006)

- zamijenjena s: HRN EN 15221-1:2012

### **HZN/TO 524, Cestovni prijevoz i prometna telematika**

HRS CEN ISO/TS 14907-2:2008 en

Road transport and traffic telematics – Electronic fee collection – Test procedures for user and fixed equipment – Part 2: Conformance test for the onboard unit application interface (ISO/TS 14907-2:2006; CEN ISO/TS 14907-2:2006)

- zamijenjena s: HRS CEN ISO/TS 14907-2:2012

HRN EN 15876-1:2011 en

Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 1: Test suite structure and test purposes (EN 15876-1:2010)

- zamijenjena s: HRN EN 15876-1:2012

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

HRN EN 13583:2003 en

Savitljive hidroizolacijske trake – Bitumenske, plastične i elastomerne hidroizolacijske trake za krovove – Određivanje otpornosti na tuču (EN 13583:2001)

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of hail resistance (EN 13583:2001)

- zamijenjena s: HRN EN 13583:2012

HRN EN 14909:2008 en

Savitljive hidroizolacijske trake – Plastične i elastomerne trake za sprečavanje kapilarnog podizanja vode – Definicije i značajke (EN 14909:2006)

Flexible sheets for waterproofing – Plastic and rubber damp proof courses – Definitions and characteristics (EN 14909:2006)

- zamijenjena s: HRN EN 14909:2012

## HZN/TO 526, *Bitumenska veziva*

- HRN EN 1425:2002 en  
Bitumen i bitumenska veziva – Vanjski izgled veziva (EN 1425:1999)  
Bitumen and bituminous binders – Characterization of perceptible properties (EN 1425:1999)  
- zamijenjena s: HRN EN 1425:2012
- HRN EN 1425:2002/A1:2008 en  
Bitumen i bitumenska veziva – Vanjski izgled veziva (EN 1425:1999/A1:2006)  
Bitumen and bituminous binders – Characterization of perceptible properties (EN 1425:1999/A1:2006)  
- zamijenjena s: HRN EN 1425:2012
- HRN EN 13075-1:2009 en  
Bitumen i bitumenska veziva – Određivanje ponašanja pri raspadanju – 1. dio: Određivanje vrijednosti raspada kationskih bitumenskih emulzija, metoda s mineralnim punilom (EN 13075-1:2009)  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method (EN 13075-1:2009)  
- zamijenjena s: HRN EN 13075-1:2012
- HRN EN 14769:2006 en  
Bitumen i bitumenska veziva – Postupak oponašanja ubrzanoga dugotrajnoga starenja uporabom tlačne komore (PAV) (EN 14769:2005)  
Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV) (EN 14769:2005)  
- zamijenjena s: HRN EN 14769:2012
- HRN EN 14770:2006 en  
Bitumen i bitumenska veziva – Određivanje kompleksnoga posmičnog modula i faznog kuta – Reometar s dinamičkim smicanjem (DSR) (EN 14770:2005)  
Bitumen and bituminous binders – Determination of complex shear modulus and phase angle – Dynamic Shear Rheometer (DSR) (EN 14770:2005)  
- zamijenjena s: HRN EN 14770:2012
- HRN EN 14771:2005 en  
Bitumen i bitumenska veziva – Određivanje krutosti puzanja pri savijanju – Reometar za ispitivanje uzorka savijanjem (BBR) (EN 14771:2005)  
Bitumen and bituminous binders – Determination of the flexural creep stiffness – Bending Beam Rheometer (BBR) (EN 14771:2005)  
- zamijenjena s: HRN EN 14771:2012

## HZN/TO 528, *Oprema za željeznice*

- HRN EN 13146-1:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 1. dio: Određivanje otpora uzdužnom pomicanju tračnice (EN 13146-1:2002)  
Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint (EN 13146-1:2002)  
- zamijenjena s: HRN EN 13146-1:2012
- HRN EN 13146-2:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 2. dio: Određivanje otpora zakretanju tračnice (EN 13146-2:2002)  
Railway applications – Track – Test methods for fastening systems – Part 2: Determination of torsional resistance (EN 13146-2:2002)  
- zamijenjena s: HRN EN 13146-2:2012
- HRN EN 13146-3:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 3. dio: Određivanje prigušivanja udarnog opterećenja (EN 13146-3:2002)

Railway applications – Track – Test methods for fastening systems – Part 3: Determination of attenuation of impact loads (EN 13146-3:2002)  
- zamijenjena s: HRN EN 13146-3:2012

- HRN EN 13146-4:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 4. dio: Utjecaj ponavljanja opterećenja (EN 13146-4:2002)  
Railway applications – Track – Test methods for fastening systems – Part 4: Effect of repeated loading (EN 13146-4:2002)  
- zamijenjena s: HRN EN 13146-4:2012
- HRN EN 13146-4/A1:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 4. dio: Utjecaj ponavljanja opterećenja (EN 13146-4:2002/A1:2006)  
Railway applications – Track – Test methods for fastening systems – Part 4: Effect of repeated loading (EN 13146-4:2002/A1:2006)  
- zamijenjena s: HRN EN 13146-4:2012
- HRN EN 13146-5:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 5. dio: Određivanje električnog otpora (EN 13146-5:2002)  
Railway applications – Track – Test methods for fastening systems – Part 5: Determination of electrical resistance (EN 13146-5:2002)  
- zamijenjena s: HRN EN 13146-5:2012
- HRN EN 13146-6:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 6. dio: Utjecaj nepovoljnih uvjeta okoliša (EN 13146-6:2002)  
Railway applications – Track – Test methods for fastening systems – Part 6: Effect of severe environmental conditions (EN 13146-6:2002)  
- zamijenjena s: HRN EN 13146-6:2012
- HRN EN 13146-7:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 7. dio: Određivanje pričvršne sile (EN 13146-7:2002)  
Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force (EN 13146-7:2002)  
- zamijenjena s: HRN EN 13146-7:2012
- HRN EN 13146-8:2004 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 8. dio: Ispitivanje u uporabi (EN 13146-8:2002)  
Railway applications – Track – Test methods for fastening systems – Part 8: In service testing (EN 13146-8:2002)  
- zamijenjena s: HRN EN 13146-8:2012
- HRN EN 13146-8/A1:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Ispitne metode za kolosiječni pričvrсни pribor – 8. dio: Ispitivanje u uporabi (EN 13146-8:2002/A1:2006)  
Railway applications – Track – Test methods for fastening systems – Part 8: In service testing (EN 13146-8:2002/A1:2006)  
- zamijenjena s: HRN EN 13146-8:2012
- HRN EN 13231-3:2007 en  
Oprema za željeznice – Željeznički gornji ustroj – Preuzimanje radova – 3. dio: Preuzimanje radova na brušenju i izravnavanju tračnica u kolosijeku (EN 13231-3:2006)  
Railway applications – Track – Acceptance of works – Part 3: Acceptance of rail grinding, milling and planing work in track (EN 13231-3:2006)  
- zamijenjena s: HRN EN 13231-3:2012

- HRN EN 13272:2008 en  
Oprema za željeznice – Električna rasvjeta u voznom parku sustava javnog prijevoza (EN 13272:2001)  
Railway applications – Electrical lighting for rolling stock in public transport systems (EN 13272:2001)  
- zamijenjena s: HRN EN 13272:2012
- HRN EN 14033-2:2008 en  
Oprema za željeznice – Željeznički gornji ustroj – Kolosiječni strojevi za gradnju i održavanje – 2. dio: Tehnički zahtjevi za rad (EN 14033-2:2008)  
Railway applications – Track – Railbound construction and maintenance machines – Part 2: Technical requirements for working (EN 14033-2:2008)  
- zamijenjena s: HRN EN 14033-2:2012

### **HZNTO 531, *Plastika i guma***

- HRN EN ISO 3673-2:2008 en  
Plastika – Epoksidne smole – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 3673-2:1999; EN ISO 3673-2:1999)  
Plastics – Epoxy resins – Part 2: Preparation of test specimens and determination of properties (ISO 3673-2:1999; EN ISO 3673-2:1999)  
- zamijenjena s: HRN EN ISO 3673-2:2012
- HRN EN ISO 7214:2008 en  
Pjenaste plastike – Polietilen – Metode ispitivanja (ISO 7214:2007; EN ISO 7214:2007)  
Cellular plastics – Polyethylene – Methods of test (ISO 7214:2007; EN ISO 7214:2007)  
- zamijenjena s: HRN EN ISO 7214:2012
- HRN EN ISO 11833-1:2008 en  
Plastika – Neomekšane poli(vinil-kloridne) ploče – Vrste, dimenzije i karakteristike – 1. dio: Ploče debljine ne manje od 1 mm (ISO 11833-1:2007; EN ISO 11833-1:2007)  
Plastics – Unplasticized poly(vinyl chloride) sheets – Types, dimensions and characteristics – Part 1: Sheets of thickness not less than 1 mm (ISO 11833-1:2007; EN ISO 11833-1:2007)  
- zamijenjena s: HRN EN ISO 11833-1:2012
- HRN EN ISO 17556:2008 en  
Plastika – Određivanje konačne aerobne biorazgradljivosti u tlu mjerenjem utroška kisika u respirometru ili količine nastalog ugljikova dioksida (ISO 17556:2003; EN ISO 17556:2004)  
Plastics – Determination of the ultimate aerobic biodegradability in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved (ISO 17556:2003; EN ISO 17556:2004)  
- zamijenjena s: HRN EN ISO 17556:2012

### **HZNTO 533, *Kolničke konstrukcije***

- HRN EN 12697-1:2007 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 1. dio: Topivi udio veziva (EN 12697-1:2005)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 1: Soluble binder content (EN 12697-1:2005)  
- zamijenjena s: HRN EN 12697-1:2012
- HRN EN 12697-6:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 6. dio: Određivanje gustoće asfaltnih uzoraka (EN 12697-6:2003+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 6: Determination of bulk density of bituminous specimens (EN 12697-6:2003+A1:2007)  
- zamijenjena s: HRN EN 12697-6:2012
- HRN EN 12697-11:2005 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 11. dio: Određivanje prionljivosti bitumena i agregata (EN 12697-11:2005)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 11: Determination of the affinity between aggregate and bitumen (EN 12697-11:2005)  
- zamijenjena s: HRN EN 12697-11:2012

- HRN EN 12697-11:2005/Ispr.1:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 11. dio: Određivanje prionljivosti bitumena i agregata (EN 12697-11:2005/AC:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 11: Determination of the affinity between aggregate and bitumen (EN 12697-11:2005/AC:2007)  
- zamijenjena s: HRN EN 12697-11:2012
- HRN EN 12697-19:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 19. dio: Propusnost uzorka (EN 12697-19:2004+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 19: Permeability of specimen (EN 12697-19:2004+A1:2007)  
- zamijenjena s: HRN EN 12697-19:2012
- HRN EN 12697-20:2005 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 20. dio: Utiskivanje na kockama ili uzorcima po Marshallu (EN 12697-20:2003)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 20: Indentation using cube or Marshall specimens (EN 12697-20:2003)  
- zamijenjena s: HRN EN 12697-20:2012
- HRN EN 12697-21:2004 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 21. dio: Utiskivanje na pločastim uzorcima (EN 12697-21:2003)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 21: Indentation using plate specimens (EN 12697-21:2003)  
- zamijenjena s: HRN EN 12697-21:2012
- HRN EN 12697-21:2004/Ispr.1:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 21. dio: Utiskivanje na pločastim uzorcima (EN 12697-21:2003/AC:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 21: Indentation using plate specimens (EN 12697-21:2003/AC:2007)  
- zamijenjena s: HRN EN 12697-21:2012
- HRN EN 12697-24:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 24. dio: Otpornost na zamor (EN 12697-24:2004+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 24: Resistance to fatigue (EN 12697-24:2004+A1:2007)  
- zamijenjena s: HRN EN 12697-24:2012
- HRN EN 12697-26:2004 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 26. dio: Krutost (EN 12697-26:2004)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 26: Stiffness (EN 12697-26:2004)  
- zamijenjena s: HRN EN 12697-26:2012
- HRN EN 12697-30:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 30. dio: Priprema uzorka udarnim zbijačem (EN 12697-30:2004+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 30: Specimen preparation by impact compactor (EN 12697-30:2004+A1:2007)  
- zamijenjena s: HRN EN 12697-30:2012
- HRN EN 12697-34:2008 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 34. dio: Marshallovo ispitivanje (EN 12697-34:2004+A1:2007)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 34: Marshall test (EN 12697-34:2004+A1:2007)  
- zamijenjena s: HRN EN 12697-34:2012



- HRN EN 12697-39:2005 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 39. dio: Određivanje udjela veziva spaljivanjem (EN 12697-39:2004)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 39: Binder content by ignition (EN 12697-39:2004)  
- zamijenjena s: HRN EN 12697-39:2012
- HRN EN 12697-40:2007 en  
Bitumenske mješavine – Ispitne metode za asfalt proizveden vrućim postupkom – 40. dio: Vodopropusnost in situ (EN 12697-40:2005)  
Bituminous mixtures – Test methods for hot mix asphalt – Part 40: In situ drainability (EN 12697-40:2005)  
- zamijenjena s: HRN EN 12697-40:2012
- HRN EN 13286-47:2004 en  
Nevezane i hidrauličnim vezivom vezane mješavine – 47. dio: Ispitna metoda za određivanje kalifornijskog indeksa nosivosti, neposrednog indeksa nosivosti i linearnog bubrenja (EN 13286-47:2004)  
Unbound and hydraulically bound mixtures – Part 47: Test method for the determination of California bearing ratio, immediate bearing index and linear swelling (EN 13286-47:2004)  
- zamijenjena s: HRN EN 13286-47:2012
- HRN EN 13863-4:2005 en  
Betonski kolnici – 4. dio: Ispitna metoda za određivanje otpornosti betonskog kolnika na gume s čavlima (EN 13863-4:2004)  
Concrete pavements – Part 4: Test methods for the determination of wear resistance of concrete pavements to studded tyres (EN 13863-4:2004)  
- zamijenjena s: HRN EN 13863-4:2012

### **HZN/TO 535, Agregati**

- HRN EN 932-5:2003 en  
Ispitivanje općih svojstava agregata – 5. dio: Uobičajena oprema i umjeravanje (EN 932-5:1999)  
Tests for general properties of aggregates – Part 5: Common equipment and calibration (EN 932-5:1999)  
- zamijenjena s: HRN EN 932-5:2012

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

- HRN EN ISO 12543-1:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 1. dio: Definicija i opis sastavnih dijelova (ISO 12543-1:1998; EN ISO 12543-1:1998)  
Glass in building – Laminated glass and laminated safety glass – Part 1: Definitions and description of component parts (ISO 12543-1:1998; EN ISO 12543-1:1998)  
- zamijenjena s: HRN EN ISO 12543-1:2012
- HRN EN ISO 12543-2:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 2. dio: Višeslojno sigurnosno staklo (ISO 12543-2:1998; EN ISO 12543-2:1998)  
Glass in building – Laminated glass and laminated safety glass – Part 2: Laminated safety glass (ISO 12543-2:1998; EN ISO 12543-2:1998)  
- zamijenjena s: HRN EN ISO 12543-2:2012
- HRN EN ISO 12543-2/A1:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 2. dio: Višeslojno sigurnosno staklo (EN ISO 12543-2:1998/A1:2004)  
Glass in building – Laminated glass and laminated safety glass – Part 2: Laminated safety glass (EN ISO 12543-2:1998/A1:2004)  
- zamijenjena s: HRN EN ISO 12543-2:2012
- HRN EN ISO 12543-3:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 3. dio: Višeslojno staklo (ISO 12543-3:1998; EN ISO 12543-3:1998)

Glass in building – Laminated glass and laminated safety glass – Part 3: Laminated glass (ISO 12543-3:1998; EN ISO 12543-3:1998)  
- zamijenjena s: HRN EN ISO 12543-3:2012

- HRN EN ISO 12543-4:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 4. dio: Ispitne metode za trajnost (ISO 12543-4:1998; EN ISO 12543-4:1998)  
Glass in building – Laminated glass and laminated safety glass – Part 4: Test methods for durability (ISO 12543-4:1998; EN ISO 12543-4:1998)  
- zamijenjena s: HRN EN ISO 12543-4:2012
- HRN EN ISO 12543-5:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 5. dio: Dimenzije i obradba rubova (ISO 12543-5:1998; EN ISO 12543-5:1998)  
Glass in building – Laminated glass and laminated safety glass – Part 5: Dimensions and edge finishing (ISO 12543-5:1998; EN ISO 12543-5:1998)  
- zamijenjena s: HRN EN ISO 12543-5:2012
- HRN EN ISO 12543-6:2005 en  
Staklo u graditeljstvu – Višeslojno staklo i višeslojno sigurnosno staklo – 6. dio: Izgled (ISO 12543-6:1998; EN ISO 12543-6:1998)  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance (ISO 12543-6:1998; EN ISO 12543-6:1998)  
- zamijenjena s: HRN EN ISO 12543-6:2012
- HRN CEN/TS 13126-13:2005 en  
Građevni okovi, pribor za prozore i prozorska vrata – Zahtjevi i ispitne metode – 13. dio: Ravnotežni utezi krila (CEN/TS 13126-13:2004)  
Building hardware, fittings for windows and door height windows – Requirements and test methods – Part 13: Sash balances (CEN/TS 13126-13:2004)  
- zamijenjena s: HRN EN 13126-13:2012
- HRN CEN/TS 13126-14:2005 en  
Građevni okovi, pribor za prozore i prozorska vrata – Zahtjevi i ispitne metode – 14. dio: Okretni zatvarači krila (CEN/TS 13126-14:2004)  
Building hardware, fittings for windows and door height windows – Requirements and test methods – Part 14: Sash fasteners (CEN/TS 13126-14:2004)  
- zamijenjena s: HRN EN 13126-14:2012

### **HZN/TO 544, Strojni elementi**

- HRN EN ISO 898-6:2005 en  
Mehanička svojstva spojnih elemenata – 6. dio: Matice s navedenim vrijednostima probnog opterećenja – Fini navoj (ISO 898-6:1994; EN ISO 898-6:1995)  
Mechanical properties of fasteners – Part 6: Nuts with specified proof load values – Fine pitch thread (ISO 898-6:1994; EN ISO 898-6:1995)  
- zamijenjena s: HRN EN ISO 898-2:2012
- HRN EN 20898-2:2008 en  
Mehanička svojstva spojnih elemenata – 2. dio: Matice sa specificiranim vrijednostima ispitnog opterećenja – Grubi navoj (ISO 898-2:1992; EN 20898-2:1993)  
Mechanical properties of fasteners – Part 2: Nuts with specified proof load values – Coarse thread (ISO 898-2:1992; EN 20898-2:1993)  
- zamijenjena s: HRN EN ISO 898-2:2012

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

- HRN EN 1994-1-1:2008 en  
Eurokod 4: Projektiranje spregnutih konstrukcija od čelika i betona – Dio 1-1: Opća pravila i pravila za zgrade (EN 1994-1-1:2004)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-1: General rules and rules for buildings (EN 1994-1-1:2004)  
- zamijenjena s: HRN EN 1994-1-1:2012

HRN EN 1994-1-1:2008/Ispr.1:2011 en  
Eurokod 4: Projektiranje spregnutih konstrukcija od čelika i betona – Dio 1-1: Opća pravila i pravila za zgrade (EN 1994-1-1:2004/AC:2009)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-1: General rules and rules for buildings (EN 1994-1-1:2004/AC:2009)  
- zamijenjena s: HRN EN 1994-1-1:2012

HRN EN 1994-1-2:2008 en  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – Dio 1-2: Opća pravila – Projektiranje konstrukcija na djelovanje požara (EN 1994-1-2:2005+AC:2008)  
Eurocode 4: Design of composite steel and concrete structures – Part 1-2: General rules – Structural fire design (EN 1994-1-2:2005+AC:2008)  
- zamijenjena s: HRN EN 1994-1-2:2012

HRN EN 1994-2:2008 en  
Eurokod 4: Projektiranje spregnutih čelično-betonskih konstrukcija – 2. dio: Opća pravila i pravila za mostove (EN 1994-2:2005+AC:2008)  
Eurocode 4: Design of composite steel and concrete structures – Part 2: General rules and rules for bridges (EN 1994-2:2005+AC:2008)  
- zamijenjena s: HRN EN 1994-2:2012

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

HRN EN 890:2007 en  
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Tekući željezov (III) sulfat (EN 890:2004)  
Chemicals used for treatment of water intended for human consumption – Iron (III) sulfate liquid (EN 890:2004)  
- zamijenjena s: HRN EN 890:2012

HRN EN 13752:2010 en  
Proizvodi koji se upotrebljavaju u obradi vode namijenjene ljudskoj uporabi – Manganov dioksid (EN 13752:2009)  
Products used for treatment of water intended for human consumption – Manganese dioxide (EN 13752:2009)  
- zamijenjena s: HRN EN 13752:2012

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

HRN EN 14891:2008 en  
Vodonepropusni proizvodi u tekućem obliku za primjenu ispod keramičkih pločica povezanih ljepilom – Zahtjevi, ispitne metode, vrednovanje sukladnosti, razredba i označavanje (EN 14891:2007)  
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, evaluation of conformity, classification and designation (EN 14891:2007)  
- zamijenjena s: HRN EN 14891:2012

HRN EN 14891:2008/Ispr.1:2009 en  
Vodonepropusni proizvodi u tekućem obliku za primjenu ispod keramičkih pločica povezanih ljepilom – Zahtjevi, ispitne metode, vrednovanje sukladnosti, razredba i označavanje (EN 14891:2007/AC:2009)  
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, evaluation of conformity, classification and designation (EN 14891:2007/AC:2009)  
- zamijenjena s: HRN EN 14891:2012

HRN EN 14992:2008 en  
Predgotovljeni betonski proizvodi – Elementi za zidove (EN 14992:2007)  
Precast concrete products – Wall elements (EN 14992:2007)  
- zamijenjena s: HRN EN 14992:2012

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

HRN EN 295-3:2005 en  
Keramičke cijevi, oblikovni komadi i cijevni priključci za odvodne i kanalizacijske sustave – 3. dio: Ispitne metode (EN 295-3:1991+A1:1998)  
Vitrified clay pipes and fittings and pipe joints for drains and sewers – Part 3: Test methods (EN 295-3:1991+A1:1998)  
- zamijenjena s: HRN EN 295-3:2012

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

HRN EN ISO 1140:2008 en  
Vlaknasta užad – Poliamidno vlakno – 3-, 4- i 8-struka užad (ISO 1140:2004; EN ISO 1140:2004)  
Fibre ropes – Polyamide – 3-, 4- and 8-strand ropes (ISO 1140:2004; EN ISO 1140:2004)  
- zamijenjena s: HRN EN ISO 1140:2012

HRN EN ISO 1141:2008 en  
Vlaknasta užad – Poliestersko vlakno – 3-, 4- i 8-struka užad (ISO 1141:2004; EN ISO 1141:2004)  
Fibre ropes – Polyester – 3-, 4- and 8-strand ropes (ISO 1141:2004; EN ISO 1141:2004)  
- zamijenjena s: HRN EN ISO 1141:2012

HRN EN ISO 1346:2008 en  
Vlaknasta užad – Polipropilensko trakasto (vrpčasto) vlakno, monofilament i multifilament (PP2) i polipropilensko vlakno visoke čvrstoće multifilament (PP3) – 3-, 4- i 8-struka užad (ISO 1346:2004; EN ISO 1346:2004)  
Fibre ropes – Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high tenacity multifilament (PP3) – 3-, 4- and 8-strand ropes (ISO 1346:2004; EN ISO 1346:2004)  
- zamijenjena s: HRN EN ISO 1346:2012

HRN EN 15618:2009 en  
Plošne tekstilije naslojene gumom ili plastikom – Plošne tekstilije za namještaj – Razredba i ispitne metode (EN 15618:2009)  
Rubber- or plastic-coated fabrics – Upholstery fabrics – Classification and methods of test (EN 15618:2009)  
- zamijenjena s: HRN EN 15618:2012

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

HRN EN 13480-3:2008 en  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2002+A1:2005+A2:2006)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2002+A1:2005+A2:2006)  
- zamijenjena s: HRN EN 13480-3:2012

HRN EN 13480-3:2008/A3:2009 en  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2002/A3:2009)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2002/A3:2009)  
- zamijenjena s: HRN EN 13480-3:2012

HRN EN 13480-3:2008/A4:2010 en  
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun (EN 13480-3:2002/A4:2010)  
Metallic industrial piping – Part 3: Design and calculation (EN 13480-3:2002/A4:2010)  
- zamijenjena s: HRN EN 13480-3:2012

HRN EN 13480-4:2008 en  
Metalni industrijski cjevovodi – 4. dio: Izrada i ugradnja (EN 13480-4:2002)  
Metallic industrial piping – Part 4: Fabrication and installation (EN 13480-4:2002)  
- zamijenjena s: HRN EN 13480-4:2012

HRN EN 13480-5:2008 en  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2002)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2002)  
- zamijenjena s: HRN EN 13480-5:2012

- HRN EN 13480-5:2008/A1:2011 en  
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2002/A1:2011)  
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2002/A1:2011)  
- zamijenjena s: HRN EN 13480-5:2012
- HRN EN 13480-8:2008 en  
Metalni industrijski cjevovodi – 8. dio: Dodatni zahtjevi za cjevovode od aluminija i aluminijevih legura (EN 13480-8:2007)  
Metallic industrial piping – Part 8: Additional requirements for aluminium and aluminium alloy piping (EN 13480-8:2007)  
- zamijenjena s: HRN EN 13480-8:2012
- HRN EN 13799:2003 en  
Nivokazi za spremnike UNP (EN 13799:2002)  
Contents gauges for LPG tanks (EN 13799:2002)  
- zamijenjena s: HRN EN 13799:2012
- HRN EN 13799:2003/Ispr.1:2008 en  
Nivokazi za spremnike UNP (EN 13799:2002/AC:2007)  
Contents gauges for LPG tanks (EN 13799:2002/AC:2007)  
- zamijenjena s: HRN EN 13799:2012
- HRN EN 14678-2:2008 en  
Oprema i pribor za UNP – Oprema za ukapljeni naftni plin na stanicama za punjenje motornih vozila – 2. dio: Dijelovi osim uređaja za istakanje i zahtjevi ugradnje (EN 14678-2:2007)  
LPG equipment and accessories – Equipment for Liquefied Petroleum Gas automotive filling stations – Part 2: Components other than dispensers, and installation requirements (EN 14678-2:2007)  
- zamijenjena s: HRN EN 14678-2:2012
- HRN EN 15202:2008 en  
Oprema i pribor za UNP – Osnovne dimenzije priključaka za ventile na bocama za UNP i pripadajućih priključaka za opremu (EN 15202:2006)  
LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections (EN 15202:2006)  
- zamijenjena s: HRN EN 15202:2012
- HRN EN 15609:2009 en  
Oprema i pribor za UNP – Pogonski sustavi na UNP za brodove, jahte i ostala plovila – Zahtjevi za ugradnju (EN 15609:2008)  
LPG equipment and accessories – LPG propulsion systems for boats, yachts and other craft – Installation requirements (EN 15609:2008)  
- zamijenjena s: HRN EN 15609:2012

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

- HRN ISO 7954:2002 en  
Mikrobiologija – Opća uputa za brojenje kvasaca i plijesni – Brojenje kolonija pri 25 °C (ISO 7954:1987)  
Microbiology – General guidance for enumeration of yeast and moulds – Colony count technique at 25 degrees C (ISO 7954:1987)  
- bez zamjene

### **HZN/TO E108, Sigurnost elektroničke opreme u području audio, video, informacijske i komunikacijske tehnologije**

- HRS IEC/TS 62441:2011 en  
Zaštitne naprave protiv zapaljenja audio, video i komunikacijske opreme te opreme informacijske tehnologije slučajno izazvanog plamenom svijeće (IEC/TS 62441:2011)  
Safeguards against accidentally caused candle flame ignition for audio/video, communication and information technology equipment (IEC/TS 62441:2011)  
- zamijenjena s: HRS CLC/TS 62441:2012

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

- HRN EN ISO/IEC 15419:2008 en  
Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Digitalna preslika crtičnoga koda i ispitivanje svojstava tiskanja (ISO/IEC 15419:2001; EN ISO/IEC 15419:2002)  
Information technology – Automatic identification and data capture techniques – Bar code digital imaging and printing performance testing (ISO/IEC 15419:2001; EN ISO/IEC 15419:2002)  
- zamijenjena s: HRN EN ISO/IEC 15419:2010
- HRN EN ISO/IEC 15423:2008 en  
Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Provjera učinka čitača i pretvarača crtičnoga koda (ISO/IEC 15423:2004; EN ISO/IEC 15423:2005)  
Information technology – Automatic identification and data capture techniques – Bar code scanner and decoder performance testing (ISO/IEC 15423:2004; EN ISO/IEC 15423:2005)  
- zamijenjena s: HRN EN ISO/IEC 15423:2010
- HRN EN ISO/IEC 15438:2008 en  
Informacijska tehnologija – Načini automatskog prepoznavanja i preuzimanja podataka – Specifikacija objašnjenja znakovlja crtičnoga koda – PDF417 (ISO/IEC 15438:2001; EN ISO/IEC 15438:2003)  
Information technology – Automatic identification and data capture techniques – Bar code symbology specifications – PDF417 (ISO/IEC 15438:2001; EN ISO/IEC 15438:2003)  
- zamijenjena s: HRN EN ISO/IEC 15438:2010
- HRN ISO/IEC 17799:2006/Ispr.1:2007 en  
Informacijska tehnologija – Sigurnosne tehnike – Kodeks postupaka za upravljanje informacijskom sigurnošću (ISO/IEC 17799:2005/Cor 1:2007)  
Information technology – Security techniques – Code of practice for information security management (ISO/IEC 17799:2005/Cor 1:2007)  
- zamijenjena s: HRN ISO/IEC 27002:2006

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

- HRN EN ISO 1135-4:2010 en  
Transfusion equipment for medical use – Part 4: Transfusion sets for single use (ISO 1135-4:2010; EN ISO 1135-4:2010)  
- zamijenjena s: HRN EN ISO 1135-4:2012
- HRN EN 1642:2010 en  
Dentistry – Medical devices for dentistry – Dental implants (EN 1642:2009)  
- zamijenjena s: HRN EN 1642:2012
- HRN EN ISO 14602:2010 en  
Non-active surgical implants – Implants for osteosynthesis – Particular requirements (ISO 14602:2010; EN ISO 14602:2010)  
- zamijenjena s: HRN EN ISO 14602:2012
- HRN EN ISO 15747:2008 en  
Plastics containers for intravenous injection (ISO 15747:2003; EN ISO 15747:2005)  
- zamijenjena s: HRN EN ISO 15747:2012

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

- HRN EN 2311:2008 en  
Aerospace series – Bushes with self-lubricating liner – Technical specification (EN 2311:1987)  
- zamijenjena s: HRN EN 2311:2012
- HRN EN 2997-002:2008 en  
Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 002: Specification of performance and contact arrangements (EN 2997-002:2006)  
- zamijenjena s: HRN EN 2997-002:2012

HRN EN 3155-035:2008 en  
Aerospace series – Electrical contacts used in elements of connection – Part 035: Contacts, electrical, triaxial, size 08, female, type D, crimp, class R – Product standard (EN 3155-035:2006)  
- zamijenjena s: HRN EN 3155-035:2012

HRN EN 3475-505:2008 en  
Aerospace series – Cables, electrical, aircraft use – Test methods – Part 505: Tensile test on conductors and strands (EN 3475-505:2007)  
- zamijenjena s: HRN EN 3475-505:2012

## 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 207, *Upravljanje okolišem***

- **umjesto**

HRN EN ISO 14065:2012  
Staklenički plinovi – Zahtjevi za validaciju emisija stakleničkih plinova (iz postrojenja) i tijela koja provode verifikaciju pri akreditaciji ili drugim oblicima odobrenja (ISO 14065:2007; EN ISO 14065:2012)  
Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition (ISO 14065:2007; EN ISO 14065:2012)

- **treba biti**

HRN EN ISO 14065:2012  
Staklenički plinovi – Zahtjevi za tijela koja provode validaciju i verifikaciju emisija stakleničkih plinova povezanu s akreditacijom ili drugim odobrenjima (ISO 14065:2007; EN ISO 14065:2012)  
Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition (ISO 14065:2007; EN ISO 14065:2012)

### **HZN/TO 521, *Usluge održavanja***

- **umjesto**

HRN EN 15221-2:2007  
Facility Management – 2. dio: Smjernice za pripremu ugovora za uslugu Facility managementa (EN 15221-2:2006)  
Facility Management – Part 2: Guidance on how to prepare Facility Management agreements (EN 15221-2:2006)

- **treba biti**

HRN EN 15221-2:2007  
Upravljanje objektima i sustavima podrške – 2. dio: Smjernice za pripremu ugovora za uslugu upravljanje objektima i sustavima podrške (EN 15221-2:2006)  
Facility Management – Part 2: Guidance on how to prepare Facility Management agreements (EN 15221-2:2006)

## 1.7 Naslovi objavljenih hrvatskih norma na hrvatskome jeziku

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

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

HRN EN 15885:2010

Razredba i značajke tehnika za obnovu i popravak odvodnih i kanalizacijskih sustava (EN 15885:2010)  
Classification and characteristics of techniques for renovation and repair of drains and sewers (EN 15885:2010)

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

### 01.040.03 Usluge. Ustrojstvo poduzeća, upravljanje i kvaliteta. Administracija. Prijevoz. Sociologija (Rječnici)

#### Međunarodna normizacija ISO

ISO 20252:2012  
Market, opinion and social research – Vocabulary and service requirements

ISO 22300:2012  
Societal security – Terminology

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

#### Međunarodna normizacija ISO

ISO 4007:2012  
Personal protective equipment – Eye and face protection – Vocabulary

#### IEC

IEC 60695-4:2012  
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products

#### Europska normizacija CEN

EN ISO 4007:2012  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2012)

### 01.040.27 Prijenos energije i topline (Rječnici)

#### Europska normizacija CEN

EN 378-1:2008+A2:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria

### 01.040.29 Elektrotehnika (Rječnici)

#### Međunarodna normizacija IEC

IEC 60695-4:2012  
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products

### 01.040.35 Informacijska tehnologija. Uredski strojevi (Rječnici)

#### Međunarodna normizacija ISO

ISO/IEC 2382-36:2008/Cor 1:2012  
Information technology – Vocabulary – Part 36: Learning, education and training

### 01.040.37 Tehnologija obrade slike (Rječnici)

#### Međunarodna normizacija ISO

ISO 18913:2012  
Imaging materials – Permanence – Vocabulary

### 01.040.433 Cestovna vozila (Rječnici)

#### Međunarodna normizacija ISO

ISO/TR 8713:2012  
Electrically propelled road vehicles – Vocabulary

### 01.040.91 Konstrukcijski materijali i gradnja (Rječnici)

#### Europska normizacija CEN

EN 480-8:2012  
Admixtures for concrete, mortar and grout – Test methods – Part 8: Determination of the conventional dry material content

### 01.040.93 Niskogradnja (Rječnici)

#### Europska normizacija CEN

EN 13481-1:2012  
Railway applications – Track – Performance requirements for fastening systems – Part 1: Definitions

### 01.080.10 Simboli za javne obavijesti

#### Međunarodna normizacija ISO

ISO 7010:2011/Amd 1:2012  
Graphical symbols – Safety colours and safety signs – Registered safety signs

### 01.080.20 Grafički simboli za upotrebu na posebnoj opremi

#### Međunarodna normizacija ISO

ISO 3758:2012  
Textiles – Care labelling code using symbols

ISO 3767-1:1998/Amd 2:2012  
Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 1: Common symbols – Amendment 2: Additional symbols concerning the engine emissions system and diesel exhaust fluid

ISO 7010:2011/Amd 1:2012  
Graphical symbols – Safety colours and safety signs  
– Registered safety signs

### **01.080.30 Grafički simboli za upotrebu u strojarskim i građevnim crtežima, shemama, planovima, zemljovidima i u odgovarajućoj tehničkoj dokumentaciji o proizvodima**

#### **Međunarodna normizacija ISO**

ISO 1219-1:2012  
Fluid power systems and components – Graphical symbols and circuit diagrams – Part 1: Graphical symbols for conventional use and data-processing applications

### **01.100.01 Tehnički crteži općenito**

#### **Međunarodna normizacija ISO**

ISO 6433:2012  
Technical product documentation – Part references

#### **Europska normizacija CEN**

EN ISO 6433:2012  
Technical product documentation – Part references (ISO 6433:2012)

### **01.120 Normizacija. Opća pravila**

#### **Europska normizacija CENELEC**

CENELEC Guide 16:2005  
Implementation of New Approach directives and the Low Voltage directive with respect to the EC declaration of conformity

CENELEC Guide 30  
CENELEC website & collaboration tool – Conditions of use and privacy policy

CENELEC Guide 31  
The concept of Technical Liaison Partnership with CENELEC

### **01.140.20 Informacijske znanosti**

#### **Međunarodna normizacija ISO**

ISO 27730:2012  
Information and documentation – International standard collection identifier (ISCI)

ISO/TR 11219:2012  
Information and documentation – Qualitative conditions and basic statistics for library buildings – Space, function and design

ISO 26324:2012  
Information and documentation – Digital object identifier system

### **03.020 Sociologija. Demografija**

#### **Međunarodna normizacija ISO**

ISO 20252:2012  
Market, opinion and social research – Vocabulary and service requirements

### **03.100.01 Ustroj poduzeća i upravljanje poduzećem općenito**

#### **Međunarodna normizacija ISO**

ISO 22300:2012  
Societal security – Terminology

ISO 22301:2012  
Societal security – Business continuity management systems – Requirements

### **03.100.30 Upravljanje ljudskim resursima**

#### **Međunarodna normizacija ISO**

ISO/IEC 19788-5:2012  
Information technology – Learning, education and training – Metadata for learning resources – Part 5: Educational elements

### **03.220.01 Prijevoz općenito**

#### **Međunarodna normizacija ISO**

ISO 13183:2012  
Intelligent transport systems – Communications access for land mobiles (CALM) – Using broadcast communications

ISO/TR 13185-1:2012  
Intelligent transport systems – Vehicle interface for provisioning and support of ITS services – Part 1: General information and use case definition

### **07.030 Fizika. Kemija**

#### **Međunarodna normizacija ISO**

ISO/TR 13014:2012  
Nanotechnologies – Guidance on physico-chemical characterization of engineered nanoscale materials for toxicologic assessment

### **07.100.30 Mikrobiologija hrane**

#### **Međunarodna normizacija ISO**

ISO 15174:2012  
Milk and milk products – Microbial coagulants – Determination of total milk-clotting activity

## 07.100.99 Ostale norme koje se odnose na mikrobiologiju

### Međunarodna normizacija

#### ISO

- ISO 11930:2012  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product

### Europska normizacija

#### CEN

- EN ISO 11930:2012  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2012)

## 11.040.20 Transfuzijska, infuzijska i injekcijska oprema

### Međunarodna normizacija

#### IEC

- IEC 60601-2-16:2012  
Medical electrical equipment – Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment

## 11.040.25 Šprice, igle i kateteri

### Međunarodna normizacija

#### ISO

- ISO 11040-6:2012  
Prefilled syringes – Part 6: Plastic barrels for injectables
- ISO 11608-1:2012  
Needle-based injection systems for medical use – Requirements and test methods – Part 1: Needle-based injection systems
- ISO 11608-2:2012  
Needle-based injection systems for medical use – Requirements and test methods – Part 2: Needles
- ISO 13926-3:2012  
Pen systems – Part 1: Glass cylinders for pen-injectors for medical use

### Europska normizacija

#### CEN

- EN ISO 11608-1:2012  
Needle-based injection systems for medical use – Requirements and test methods – Part 1: Needle-based injection systems (ISO 11608-1:2012)
- EN ISO 11608-2:2012  
Needle-based injection systems for medical use – Requirements and test methods – Part 2: Needles (ISO 11608-2:2012)

## 11.040.40 Implantati za kirurgiju, protetiku i ortotiku

### Međunarodna normizacija

#### ISO

- ISO 6474-2:2012  
Implants for surgery – Ceramic materials – Part 2: Composite materials based on a high-purity alumina matrix with zirconia reinforcement

ISO 11658:2012

Cardiovascular implants and extracorporeal systems – Blood/tissue contact surface modifications for extracorporeal perfusion systems

### Europska normizacija

#### CEN

- EN ISO 5832-2:2012  
Implants for surgery – Metallic materials – Part 2: Unalloyed titanium (ISO 5832-2:1999)
- EN ISO 5832-3:2012  
Implants for surgery – Metallic materials – Part 3: Wrought titanium 6-aluminium 4-vanadium alloy (ISO 5832-3:1996)

## 11.040.50 Radiografijska oprema

### Međunarodna normizacija

#### IEC

- IEC 60601-2-6:2012  
Medical electrical equipment – Part 2-6: Particular requirements for the basic safety and essential performance of microwave therapy equipment

## 11.040.55 Dijagnostička oprema

### Međunarodna normizacija

#### IEC

- IEC 60601-2-26:2012  
Medical electrical equipment – Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs
- IEC 60601-2-27:2011/Corr.1:2012  
Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment

### Europska normizacija

#### CEN

- EN ISO 81060-1:2012  
Non-invasive sphygmomanometers – Part 1: Requirements and test methods for non-automated measurement type (ISO 81060-1:2007)

## 11.040.60 Terapeutska oprema

### Međunarodna normizacija

#### IEC

- IEC 60601-2-3:2012  
Medical electrical equipment – Part 2-3: Particular requirements for the basic safety and essential performance of short-wave therapy equipment

## 11.040.70 Oftalmološka oprema

### Međunarodna normizacija

#### ISO

- ISO 12870:2012  
Ophthalmic optics – Spectacle frames – Requirements and test methods
- ISO 19980:2012  
Ophthalmic instruments – Corneal topographers

## **Europska normizacija CEN**

EN ISO 12870:2012  
Ophthalmic optics – Spectacle frames – Requirements and test methods (ISO 12870:2012)

EN ISO 19980:2012  
Ophthalmic instruments – Corneal topographers (ISO 19980:2012)

### **11.060.25 Stomatološki instrumenti**

## **Međunarodna normizacija ISO**

ISO 21672-1:2012  
Dentistry – Periodontal probes – Part 1: General requirements

## **Europska normizacija CEN**

EN ISO 21672-1:2012  
Dentistry – Periodontal probes – Part 1: General requirements (ISO 21672-1:2012)

### **11.100.20 Biološko vrednovanje medicinskih proizvoda**

## **Međunarodna normizacija ISO**

ISO 13022:2012  
Medical products containing viable human cells – Application of risk management and requirements for processing practices

### **11.160 Prva pomoć**

## **Europska normizacija CEN**

EN 1865-4:2012  
Patient handling equipment used in road ambulances – Part 4: Foldable patient transfer chair

### **11.180.15 Pomagala za gluhe i osobe oštećenog sluha**

## **Europska normizacija CENELEC**

EN 60118-15:2012  
Electroacoustics – Hearing aids – Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal (IEC 60118-15:2012)

### **11.180.99 Ostale norme koje se odnose na pomagala za osobe s invaliditetom**

## **Međunarodna normizacija ISO**

ISO/IEC 29136:2012  
Information technology – User interfaces – Accessibility of personal computer hardware

### **13.020.10 Upravljanje okolišem**

## **Međunarodna normizacija ISO**

ISO 14045:2012  
Environmental management – Eco-efficiency assessment of product systems – Principles, requirements and guidelines

ISO/TR 14047:2012  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to impact assessment situations

ISO/TR 14049:2012  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to goal and scope definition and inventory analysis

## **Europska normizacija CEN**

EN ISO 14045:2012  
Environmental management – Eco-efficiency assessment of product systems – Principles, requirements and guidelines (ISO 14045:2012)

### **13.020.60 Životni ciklusi proizvoda**

## **Međunarodna normizacija ISO**

ISO 14045:2012  
Environmental management – Eco-efficiency assessment of product systems – Principles, requirements and guidelines

ISO/TR 14047:2012  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to impact assessment situations

ISO/TR 14049:2012  
Environmental management – Life cycle assessment – Illustrative examples on how to apply ISO 14044 to goal and scope definition and inventory analysis

## **Europska normizacija CEN**

EN ISO 14045:2012  
Environmental management – Eco-efficiency assessment of product systems – Principles, requirements and guidelines (ISO 14045:2012)

### **13.040.40 Emisije iz stacionarnih izvora**

## **Europska normizacija CENELEC**

EN 50379-1:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 1: General requirements and test methods

EN 50379-2:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 2: Performance requirements for apparatus used in statutory inspections and assessment

EN 50379-3:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 3: Performance requirements for apparatus used in non-statutory servicing of gas fired heating appliances



### **13.060.50 Ispitivanje voda na kemijske tvari**

#### **Europska normizacija CEN**

EN ISO 12846:2012  
Water quality – Determination of mercury – Method using atomic absorption spectrometry (AAS) with and without enrichment (ISO 12846:2012)

### **13.060.70 Ispitivanje bioloških svojstava vode**

#### **Međunarodna normizacija ISO**

ISO 11350:2012  
Water quality – Determination of the genotoxicity of water and waste water – Salmonella/microsome fluctuation test (Ames fluctuation test)

### **13.080.05 Ispitivanje tla općenito, uključujući uzorkovanje**

#### **Međunarodna normizacija ISO**

ISO 10930:2012  
Soil quality – Measurement of the stability of soil aggregates subjected to the action of water

### **13.110 Sigurnost strojeva**

#### **Međunarodna normizacija IEC**

IEC 61496-1:2012  
Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests

### **13.180 Ergonomija**

#### **Međunarodna normizacija ISO**

ISO/TR 9241-331:2012  
Ergonomics of human-system interaction – Part 331: Optical characteristics of autostereoscopic displays

### **13.200 Zaštita od nezgoda i velikih nesreća**

#### **Europska normizacija CEN**

CEN/TR 1317-6:2012  
Road restraint systems – Part 6: Pedestrian restraint system – Pedestrian parapets

### **13.220.01 Zaštita od požara općenito**

#### **Međunarodna normizacija ISO**

ISO 26368:2012  
Environmental damage limitation from fire-fighting water run-off

### **13.220.10 Vatrogastvo**

#### **Međunarodna normizacija ISO**

ISO 7076-1:2012  
Fire protection – Foam fire extinguishing systems – Part 1: Foam proportioning equipment

ISO 7076-2:2012  
Fire protection – Foam fire extinguishing systems – Part 2: Low expansion foam equipment

#### **Europska normizacija CEN**

EN 671-1:2012  
Fixed firefighting systems – Hose systems – Part 1: Hose reels with semi-rigid hose

EN 671-2:2012  
Fixed firefighting systems – Hose systems – Part 2: Hose systems with lay-flat hose

### **13.220.20 Zaštita od požara**

#### **Međunarodna normizacija ISO**

ISO 7240-10:2012  
Fire detection and alarm systems – Part 10: Point-type flame detectors

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

#### **Međunarodna normizacija IEC**

IEC 60695-4:2012  
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products

### **13.220.50 Vatrootpornost građevnih materijala i elemenata**

#### **Međunarodna normizacija ISO**

ISO 14934-3:2012  
Fire tests – Calibration and use of heat flux meters – Part 3: Secondary calibration method

### **13.340.10 Zaštitna odjeća**

#### **Međunarodna normizacija ISO**

ISO 17491-1:2012  
Protective clothing – Test methods for clothing providing protection against chemicals – Part 1: Determination of resistance to outward leakage of gases (internal pressure test)

ISO 17491-2:2012  
Protective clothing – Test methods for clothing providing protection against chemicals – Part 2: Determination of resistance to inward leakage of aerosols and gases (inward leakage test)

### 13.340.20 Zaštitna oprema za glavu

#### Međunarodna normizacija ISO

- ISO 4007:2012  
Personal protective equipment – Eye and face protection – Vocabulary

#### Europska normizacija CEN

- EN ISO 4007:2012  
Personal protective equipment – Eye and face protection – Vocabulary (ISO 4007:2012)

### 17.040.30 Mjerni instrumenti

#### Međunarodna normizacija ISO

- ISO 25178-2:2012  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 2: Terms, definitions and surface texture parameters
- ISO 13225:2012  
Geometrical product specifications (GPS) – Dimensional measuring equipment; Height gauges – Design and metrological characteristics
- ISO 1101:2012  
Geometrical product specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out

#### Europska normizacija CEN

- EN ISO 25178-2:2012  
Geometrical product specifications (GPS) – Surface texture: Areal – Part 2: Terms, definitions and surface texture parameters (ISO 25178-2:2012)
- EN ISO 13225:2012  
Geometrical product specifications (GPS) – Dimensional measuring equipment; Height gauges – Design and metrological characteristics (ISO 13225:2012)

### 17.120.10 Protok u zatvorenim cjevovodima

#### Međunarodna normizacija ISO

- ISO/TR 11583:2012  
Measurement of wet gas flow by means of pressure differential devices inserted in circular cross-section conduits

### 17.120.20 Protok u otvorenim kanalima

#### Međunarodna normizacija ISO

- ISO/TR 24578:2012  
Hydrometry – Acoustic Doppler profiler – Method and application for measurement of flow in open channels

### 17.140.30 Buka koju proizvode prijevozna sredstva

#### Međunarodna normizacija ISO

- ISO 5130:2007/Amd 1:2012  
Acoustics – Measurements of sound pressure level emitted by stationary road vehicles
- ISO 20283-4:2012  
Mechanical vibration – Measurement of vibration on ships – Part 4: Measurement and evaluation of vibration of the ship propulsion machinery

### 17.160 Vibracije, udari i mjerenja vibracija

#### Međunarodna normizacija ISO

- ISO 2954:2012  
Mechanical vibration of rotating and reciprocating machinery – Requirements for instruments for measuring vibration severity
- ISO 13379-1:2012  
Condition monitoring and diagnostics of machines – Data interpretation and diagnostics techniques – Part 1: General guidelines

### 17.180.20 Boje i mjerenje svjetlosti

#### Međunarodna normizacija ISO

- ISO 11664-3:2012  
Colorimetry – Part 3: CIE tristimulus values

### 17.180.30 Optički mjerni instrumenti

#### Međunarodna normizacija ISO

- ISO 16331-1:2012  
Optics and optical instruments – Laboratory procedures for testing surveying and construction instruments – Part 1: Performance of handheld laser distance meters
- ISO 17123-4:2012  
Optics and optical instruments – Field procedures for testing geodetic and surveying instruments – Part 4: Electro-optical distance meters (EDM measurements to reflectors)

### 17.220.20 Mjerenje električnih i magnetskih veličina

#### Međunarodna normizacija IEC

- IEC 60404-11 Edition 1.2:2012  
Magnetic materials – Part 11: Method of test for the determination of surface insulation resistance of magnetic sheet and strip
- IEC/TR 61869-103:2012  
Instrument transformers – The use of instrument transformers for power quality measurement

## 19.100 Nerazorna ispitivanja

### Međunarodna normizacija ISO

- ISO 16810:2012  
Non-destructive testing – Ultrasonic testing – General principles
- ISO 16811:2012  
Non-destructive testing – Ultrasonic testing – Sensitivity and range setting
- ISO 16823:2012  
Non-destructive testing – Ultrasonic testing – Transmission technique
- ISO 16826:2012  
Non-destructive testing – Ultrasonic testing – Examination for discontinuities perpendicular to the surface
- ISO 16827:2012  
Non-destructive testing – Ultrasonic testing – Characterization and sizing of discontinuities
- ISO 16828:2012  
Non-destructive testing – Ultrasonic testing – Time-of-flight diffraction technique as a method for detection and sizing of discontinuities
- ISO 16831:2012  
Non-destructive testing – Ultrasonic testing – Characterization and verification of ultrasonic thickness measuring equipment

## 21.060.01 Spojni elementi općenito

### Europska normizacija CEN

- EN 14592:2008+A1:2012  
Timber structures – Dowel-type fasteners – Requirements

## 21.060.10 Vijci i svorni vijci

### Međunarodna normizacija ISO

- ISO 888:2012  
Fasteners – Bolts, screws and studs – Nominal lengths and thread lengths
- ISO 10509:2012  
Hexagon flange head tapping screws

## 21.060.20 Matice

### Međunarodna normizacija ISO

- ISO 7041:2012  
Prevailing torque type hexagon nuts (with non-metallic insert), style 2 – Property classes 9 and 12
- ISO/TR 16224:2012  
Technical aspects of nut design

## 21.100.20 Valjni ležajevi

### Međunarodna normizacija ISO

- ISO 10285:2007/Amd 1:2012  
Rolling bearings – Sleeve type linear ball bearings – Boundary dimensions and tolerances

## 21.120.40 Uravnoteženje i strojevi za uravnoteženje

### Međunarodna normizacija ISO

- ISO 21940-23:2012  
Mechanical vibration – Rotor balancing – Part 23: Enclosures and other protective measures for the measuring station of balancing machines

## 21.160 Opruge

### Međunarodna normizacija ISO

- ISO 11891:2012  
Hot formed helical compression springs – Technical specifications

## 21.220.10 Remenski pogon i njegovi sastavni dijelovi

### Međunarodna normizacija ISO

- ISO 5296:2012  
Synchronous belt drives – Belts with pitch codes MXL, XXL, XL, L, H, XH and XXH – Metric and inch dimensions

## 23.040.01 Cjevovodni sastavni dijelovi i cjevovodi općenito

### Europska normizacija CEN

- EN 13480-3:2002/A5:2012  
Metallic industrial piping – Part 3: Design and calculation

## 23.040.15 Cijevi od obojenih metala

### Europska normizacija CEN

- EN 12451:2012  
Copper and copper alloys – Seamless, round tubes for heat exchangers
- EN 12452:2012  
Copper and copper alloys – Rolled, finned, seamless tubes for heat exchangers

## 23.060.40 Regulatori tlaka

### Europska normizacija CEN

- EN 15202:2012  
LPG equipment and accessories – Essential operational dimensions for LPG cylinder valve outlet and associated equipment connections

## 23.080 Pumpe

### Međunarodna normizacija ISO

- ISO 9906:2012  
Rotodynamic pumps – Hydraulic performance acceptance tests – Grades 1, 2 and 3

## **Europska normizacija CEN**

- EN 13951:2012  
Liquid pumps – Safety requirements – Agrifoodstuffs equipment; Design rules to ensure hygiene in use
- EN ISO 9906:2012  
Rotodynamic pumps – Hydraulic performance acceptance tests – Grades 1, 2 and 3 (ISO 9906:2012)

### **23.100.01 Sustavi za hidraulički i pneumatski prijenos energije općenito**

## **Međunarodna normizacija ISO**

- ISO 1219-1:2012  
Fluid power systems and components – Graphical symbols and circuit diagrams – Part 1: Graphical symbols for conventional use and data-processing applications

### **23.140 Kompresori i pneumatski strojevi**

## **Međunarodna normizacija IEC**

- IEC 60335-2-34:2012  
Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors

### **23.160 Vakuumska tehnologija**

## **Međunarodna normizacija ISO**

- ISO 21360-1:2012  
Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 1: General description
- ISO 21360-2:2012  
Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 2: Positive displacement vacuum pumps

### **25.080.01 Alatni strojevi općenito**

## **Europska normizacija CEN**

- EN ISO 23125:2010/A1:2012  
Machine tools – Safety – Turning machines – Amendment 1 (ISO 23125:2010/Amd 1:2012)

### **25.080.10 Tokarilice**

## **Međunarodna normizacija ISO**

- ISO 23125:2010/Amd 1:2012  
Machine tools – Safety – Turning machines; Amendment 1

### **25.100.70 Abrazivi**

## **Međunarodna normizacija ISO**

- ISO 666:2012  
Machine tools – Mounting of grinding wheels by means of hub flanges
- ISO 5429:2012  
Coated abrasives – Flap wheels with incorporated flanges or separate flanges

### **25.160.20 Dodatni i potrošni materijali za zavarivanje**

## **Međunarodna normizacija ISO**

- ISO 16834:2012  
Welding consumables – Wire electrodes, wires, rods and deposits for gas shielded arc welding of high strength steels – Classification
- ISO 21952:2012  
Welding consumables – Wire electrodes, wires, rods and deposits for gas shielded arc welding of creep-resisting steels – Classification
- ISO 24598:2012  
Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels – Classification

## **Europska normizacija CEN**

- EN ISO 16834:2012  
Welding consumables – Wire electrodes, wires, rods and deposits for gas shielded arc welding of high strength steels – Classification (ISO 16834:2012)
- EN ISO 21952:2012  
Welding consumables – Wire electrodes, wires, rods and deposits for gas shielded arc welding of creep-resisting steels – Classification (ISO 21952:2012)
- EN ISO 24598:2012  
Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels – Classification (ISO 24598:2012)

### **25.160.40 Zavareni spojevi i zavari**

## **Međunarodna normizacija ISO**

- ISO 14271:2011/Cor 1:2012  
Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds; Technical Corrigendum 1
- ISO 17653:2012  
Resistance welding – Destructive tests on welds in metallic materials – Torsion test of resistance spot welds
- ISO 22825:2012  
Non-destructive testing of welds – Ultrasonic testing – Testing of welds in austenitic steels and nickel-based alloys

## **Europska normizacija CEN**

- EN 4677-001:2012  
Aerospace series – Welded and brazed assemblies for aerospace construction – Joints of metallic materials by electron beam welding – Part 001: Quality of welded assemblies
- EN ISO 14271:2011/AC:2012  
Resistance welding – Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds – Technical Corrigendum 1 (ISO 14271:2011/Cor 1:2012)
- EN ISO 17653:2012  
Resistance welding – Destructive tests on welds in metallic materials – Torsion test of resistance spot welds (ISO 17653:2012)
- EN ISO 22825:2012  
Non-destructive testing of welds – Ultrasonic testing – Testing of welds in austenitic steels and nickel-based alloys (ISO 22825:2012)

## **25.220.20 Površinska obrada**

### **Međunarodna normizacija ISO**

- ISO/TR 16689:2012  
Anodizing of aluminium and its alloys – Experimental research on possible alternative sealing quality test methods to replace the phosphoric acid/chromic acid immersion test – Evaluation of correlations

## **27.010 Tehnika prijenosa energije i topline općenito**

### **Europska normizacija ETSI**

- EN 301 575 V1.1.1:2012  
Environmental Engineering (EE) – Measurement method for energy consumption of Customer Premises Equipment (CPE)

## **27.060.01 Plamenici i kotlovi općenito**

### **Europska normizacija CEN**

- EN 298:2012  
Automatic burner control systems for burners and appliances burning gaseous or liquid fuels

## **27.070 Gorivi članci**

### **Međunarodna normizacija IEC**

- IEC 62282-6-100:2010/Corr.1:2011  
Fuel cell technologies – Part 6-100: Micro fuel cell power systems – Safety

### **Europska normizacija CENELEC**

- EN 62282-3-100:2012  
Fuel cell technologies – Part 3-100: Stationary fuel cell power systems – Safety (IEC 62282-3-100:2012)

## **27.080 Dizalice topline**

### **Europska normizacija CEN**

- EN 378-1:2008+A2:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria
- EN 378-2:2008+A2:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation
- EN 378-3:2008+A1:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site and personal protection
- EN 378-4:2008+A1:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery

## **27.140 Hidroenergetika**

### **Međunarodna normizacija IEC**

- IEC 61362:2012  
Guide to specification of hydraulic turbine governing systems

## **27.200 Rashladna tehnologija (tehnika)**

### **Europska normizacija CEN**

- EN 378-1:2008+A2:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Basic requirements, definitions, classification and selection criteria
- EN 378-2:2008+A2:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation
- EN 378-3:2008+A1:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 3: Installation site and personal protection
- EN 378-4:2008+A1:2012  
Refrigerating systems and heat pumps – Safety and environmental requirements – Part 4: Operation, maintenance, repair and recovery

## **29.020 Elektrotehnika općenito**

### **Međunarodna normizacija IEC**

- IEC 60695-4:2012  
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products
- IEC 61124:2012  
Reliability testing – Compliance tests for constant failure rate and constant failure intensity
- IECQ 080000:2012  
IEC Quality Assessment System for Electronic Components (IECQ System) – Hazardous Substance Process Management System Requirements (HSPM)

## Europska normizacija ETSI

EN 301 575 V1.1.1:2012  
Environmental Engineering (EE) – Measurement method for energy consumption of Customer Premises Equipment (CPE)

## 29.030 Magnetni materijali

### Međunarodna normizacija IEC

IEC 60404-11 Edition 1.2:2012  
Magnetic materials – Part 11: Method of test for the determination of surface insulation resistance of magnetic sheet and strip

## 29.035.01 Izolacijski materijali općenito

### Europska normizacija CENELEC

EN 60626-1:2012  
Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements

## 29.040.10 Izolacijska ulja

### Europska normizacija CENELEC

EN 60296:2012  
Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear (IEC 60296:2012)

## 29.060.10 Žice

### Međunarodna normizacija IEC

IEC 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 60317-56:2012  
Specifications for particular types of winding wires – Part 56: Solderable fully insulated (FIW) zero-defect polyurethane enamelled round copper wire with nominal conductor diameter 0,040 mm to 1,600 mm, class 180

IEC 60851-6:2012  
Winding wires – Test methods – Part 6: Thermal properties

## 29.120.20 Uređaji za povezivanje

### Međunarodna normizacija IEC

IEC 61535:2009/am1:2012  
Amendment 1 – Installation couplers intended for permanent connection in fixed installations

IEC 61535 Edition 1.1:2012  
Installation couplers intended for permanent connection in fixed installations

## 29.120.30 Utikači, utičnice, sprežnici

### Međunarodna normizacija IEC

IEC 60309-2:1999+A1:2005+A2:2012  
Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories

IEC 60309-4:2006+A1:2012  
Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock

### Europska normizacija CENELEC

EN 60309-2:1999/A2:2012  
Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories (IEC 60309-2:1999/A2:2012)

EN 60309-4:2007/A1:2012  
Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock (IEC 60309-4:2006/A1:2012)

## 29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

### Međunarodna normizacija IEC

IEC 60269-4:2009/am1:2012  
Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

IEC 60269-4 Edition 5.1:2012  
Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

IEC 61008-1:2010/am1:2012  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules

IEC 61008-1 Edition 3.1:2012  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules

IEC 61009-1:2010/am1:2012  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules

IEC 61009-1 Edition 3.1:2012  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules

### Europska normizacija CENELEC

EN 50550:2011/AC:2012  
Power frequency overvoltage protective device for household and similar applications (POP)

EN 61008-1:2004/A13:2012  
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) – Part 1: General rules

EN 61009-1:2004/A14:2012  
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) – Part 1: General rules

## 29.130.10 Visokonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

- IEC 62271-107:2012  
High-voltage switchgear and controlgear – Part 107:  
Alternating current fused circuit-switchers for rated  
voltages above 1 kV up to and including 52 kV
- IEC 62271-207:2012  
High-voltage switchgear and controlgear – Part 207:  
Seismic qualification for gas-insulated switchgear  
assemblies for rated voltages above 52 kV

### Europska normizacija CENELEC

- EN 62271-203:2012  
High-voltage switchgear and controlgear – Part 203:  
Gas-insulated metal-enclosed switchgear for rated  
voltages above 52 kV (IEC 62271-203:2011)

## 29.130.20 Niskonaponski rasklopni i upravljački uređaji

### Međunarodna normizacija IEC

- IEC 60947-3:2008/A1:2012  
Low-voltage switchgear and controlgear – Part 3:  
Switches, disconnectors, switch-disconnectors and  
fuse-combination units; Amendment 1
- IEC 60947-3 Edition 3.1:2012  
Low-voltage switchgear and controlgear – Part 3:  
Switches, disconnectors, switch-disconnectors and  
fuse-combination units
- IEC 61439-6:2012  
Low-voltage switchgear and controlgear assemblies –  
Part 6: Busbar trunking systems (busways)

### Europska normizacija CENELEC

- EN 60947-3:2009/A1:2012  
Low-voltage switchgear and controlgear – Part 3:  
Switches, disconnectors, switch-disconnectors and  
fuse-combination units (IEC 60947-3:2008/A1:2012)
- EN 61439-3:2012  
Low-voltage switchgear and controlgear assemblies –  
Part 3: Distribution boards intended to be operated by  
ordinary persons (DBO) (IEC 61439-3:2012)

## 29.140.10 Kape i držači svjetiljki

### Međunarodna normizacija IEC

- IEC 60838-2-2 Edition 1.1:2012  
Miscellaneous lampholders – Part 2-2: Particular  
requirements – Connectors for LED-modules

## 29.140.20 Svjetiljke sa žarnom niti

### Međunarodna normizacija IEC

- IEC 60432-2 Edition 2.1:2012  
Incandescent lamps – Safety specifications – Part 2:  
Tungsten-halogen lamps for domestic and similar  
general lighting purposes

## 29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

### Europska normizacija CENELEC

- EN 60662:2012  
High-pressure sodium vapour lamps – Performance  
specifications (IEC 60662:2011, modified)
- EN 62639:2012  
Fluorescent induction lamps – Performance  
specification (IEC 62639:2012)

## 29.140.99 Ostale norme koje se odnose na svjetiljke

### Europska normizacija CENELEC

- EN 62442-1:2011/AC:2012  
Energy performance of lamp controlgear – Part 1:  
Controlgear for fluorescent lamps – Method of  
measurement to determine the total input power of  
controlgear circuits and the efficiency of the controlgear

## 29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

### Međunarodna normizacija IEC

- IEC 61800-3 Edition 2.1:2012  
Adjustable speed electrical power drive systems –  
Part 3: EMC requirements and specific test methods

## 29.220.20 Kiseli sekundarni članci i baterije

### Međunarodna normizacija IEC

- IEC 61982:2012  
Secondary batteries (except lithium) for the propulsion  
of electric road vehicles – Performance and endurance  
tests

### Europska normizacija CENELEC

- EN 61056-1  
General purpose lead-acid batteries (valve regulated  
types) – Part 1: General requirements, functional  
characteristics – Methods of test
- EN 61056-2  
General purpose lead-acid batteries (valve-regulated  
types) – Part 2: Dimensions, terminals and marking

## 29.280 Oprema za električnu vuču

### Europska normizacija CENELEC

- EN 50367:2012  
Railway applications – Current collection systems  
– Technical criteria for the interaction between  
pantograph and overhead line (to achieve free access)
- EN 50388:2012  
Railway Applications – Power supply and rolling  
stock – Technical criteria for the coordination between  
power supply (substation) and rolling stock to achieve  
interoperability

## **31.020   Elektronički sastavni dijelovi općenito**

### **Međunarodna normizacija IEC**

IECQ 080000:2012  
IEC Quality Assessment System for Electronic Components (IECQ System) – Hazardous Substance Process Management System Requirements (HSPM)

## **31.040.01   Otpornici općenito**

### **Međunarodna normizacija IEC**

IEC 60717:2012  
Method for the determination of the space required by capacitors and resistors with unidirectional terminations

## **31.060.01   Kondenzatori općenito**

### **Međunarodna normizacija IEC**

IEC 60717:2012  
Method for the determination of the space required by capacitors and resistors with unidirectional terminations

## **31.080.01   Poluvodičke naprave općenito**

### **Europska normizacija CENELEC**

EN 62047-13:2012  
Semiconductor devices – Micro-electromechanical devices – Part 13: Bend- and shear- type test methods of measuring adhesive strength for MEMS structures (IEC 62047-13:2012)  
EN 62047-14:2012  
Semiconductor devices – Micro-electromechanical devices – Part 14: Forming limit measuring method of metallic film materials (IEC 62047-14:2012)

## **31.120   Elektronički uređaji za prikazivanje**

### **Međunarodna normizacija IEC**

IEC 61988-2-5:2012  
Plasma display panels – Part 2-5: Measuring methods – Acoustic noise  
IEC 61988-4-2:2012  
Plasma display panels – Part 4-2: Environmental testing methods – Panel strength

## **31.160   Električni filtri**

### **Međunarodna normizacija IEC**

IEC 60862-2:2012  
Surface acoustic wave (SAW) filters of assessed quality – Part 2: Guidelines for the use

## **31.180   Tiskani krugovi i pločice**

### **Međunarodna normizacija IEC**

IEC 61182-2-2:2012  
Printed board assembly products – Manufacturing description data and transfer methodology – Part 2-2: Sectional requirements for implementation of printed board fabrication data description

## **31.220.01   Elektromehanički sastavni dijelovi općenito**

### **Europska normizacija CENELEC**

EN 62047-13:2012  
Semiconductor devices – Micro-electromechanical devices – Part 13: Bend- and shear- type test methods of measuring adhesive strength for MEMS structures (IEC 62047-13:2012)  
EN 62047-14:2012  
Semiconductor devices – Micro-electromechanical devices – Part 14: Forming limit measuring method of metallic film materials (IEC 62047-14:2012)

## **31.220.10   Utikačke i utičničke naprave. Konektori**

### **Međunarodna normizacija IEC**

IEC 60512-16-21:2012  
Connectors for electronic equipment – Tests and measurements – Part 16-21: Mechanical tests on contacts and terminations – Test 16u: Whisker test via the application of external mechanical stresses  
IEC 61076-3-110:2012  
Connectors for electronic equipment – Product requirements – Part 3-110: Detail specification for shielded, free and fixed connectors for data transmission with frequencies up to 1 000 MHz  
IEC 60838-2-2 Edition 1.1:2012  
Miscellaneous lampholders – Part 2-2: Particular requirements – Connectors for LED-modules  
IEC 61076-2-101:2012  
Connectors for electronic equipment – Product requirements – Part 2-101: Circular connectors – Detail specification for M12 connectors with screw-locking  
IEC 61076-4-116:2012  
Connectors for electronic equipment – Product requirements – Part 4-116: Printed board connectors – Detail specification for a high-speed two-part connector with integrated shielding function

## **31.240   Mehaničke konstrukcije za elektroničku opremu**

### **Međunarodna normizacija IEC**

IEC 61837-1:2012  
Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 1: Plastic moulded enclosure outlines



## 33.020 Telekomunikacije općenito

### Europska normizacija ETSI

- ETSI TS 102 950-1 V1.2.1:2012  
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 1: Implementation Conformance Statement (ICS)
- ETSI TS 102 950-2 V1.2.1:2012  
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 102 950-3 V1.2.1:2012  
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 3: Abstract Test Suite (ATS) and Implementation eXtra Information for Testing (IXIT)
- ETSI ES 201 873-1 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 1: TTCN-3 Core Language
- ETSI ES 201 873-4 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 4: TTCN-3 Operational Semantics
- ETSI ES 201 873-5 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 5: TTCN-3 Runtime Interface (TRI)
- ETSI ES 201 873-6 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 6: TTCN-3 Control Interface (TCI)
- ETSI ES 201 873-7 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 7: Using ASN.1 with TTCN-3
- ETSI ES 201 873-8 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 8: The IDL to TTCN-3 Mapping
- ETSI ES 201 873-9 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 9: Using XML schema with TTCN-3
- ETSI ES 201 873-10 V4.4.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 10: TTCN-3 Documentation Comment Specification
- ETSI ES 202 786 V1.1.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Support of interfaces with continuous signals
- ETSI ES 202 789 V1.1.1:2012  
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Extended TRI

### 33.040.01 Telekomunikacijski sustavi općenito

#### Europska normizacija ETSI

- ETSI SR 003 091 V1.1.1:2012  
Electronic Signatures and Infrastructures (ESI) – Recommendations on Governance and Audit Regime for CAB Forum Extended Validation and Baseline Certificates

- ETSI TS 101 533-1 V1.3.1:2012  
Electronic Signatures and Infrastructures (ESI) – Data Preservation Systems Security – Part 1: Requirements for Implementation and Management
- ETSI TR 101 533-2 V1.3.1:2012  
Electronic Signatures and Infrastructures (ESI) – Data Preservation Systems Security – Part 2: Guidelines for Assessors
- ETSI TS 102 573 V2.1.1:2012  
Electronic Signatures and Infrastructures (ESI) – Policy requirements for trust service providers signing and/or storing data objects
- ETSI TS 103 090 V1.1.1:2012  
Electronic Signatures and Infrastructures (ESI) – Conformity Assessment for Trust Service Providers issuing Extended Validation Certificate
- ETSI TS 119 134-5 V1.1.1:2012  
Electronic Signatures and Infrastructures (ESI) – XML Advanced Electronic Signature (XAdES) Testing Compliance & Interoperability – Part 5: Conformance Testing for XAdES Baseline Profile
- ETSI TS 119 412-2 V1.1.1:2012  
Electronic Signatures and Infrastructures (ESI) – Profiles for Trust Service Providers issuing certificates – Part 2: Certificate Profile for certificates issued to natural persons
- ETSI ES 201 554 V1.1.1:2012  
Environmental Engineering (EE) – Measurement method for Energy efficiency of Core network equipment
- ETSI EG 203 165 V1.1.1:2012  
Speech and multimedia Transmission Quality (STQ) – Throughput Measurement Guidelines

### 33.040.40 Mreže za prijenos podataka

#### Međunarodna normizacija IEC

- IEC/TR 61850-90-5:2012  
Communication networks and systems for power utility automation – Part 90-5: Use of IEC 61850 to transmit synchrophasor information according to IEEE C37.118

### 33.040.99 Ostala oprema za komunikacijske sustave

#### Europska normizacija ETSI

- ETSI TS 101 580-1 V1.1.1:2012  
IMS Network Testing (INT) – Diameter Conformance testing for Rx interface – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 101 580-2 V1.1.1:2012  
IMS Network Testing (INT) – Diameter Conformance testing for Rx interface – Part 2: Test Suite Structure (TSS) and Test Purposes (TP)
- ETSI TS 101 580-3 V1.1.1:2012  
IMS Network Testing (INT) – Diameter Conformance testing for Rx interface – Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification
- ETSI TS 101 586 V1.1.1:2012  
IMS Network Testing (INT) – User Documentation and IMS Codec and Adapter layer software for IPv6 and 3GPP Release 9
- ETSI TS 101 587 V1.1.1:2012  
IMS Network Testing (INT) – Abstract Test Suite for IMS & EPC Interoperability

- ETSI TS 102 901 V4.1.1:2012  
IMS Network Testing (INT) – IMS NNI Interoperability Test Specifications IMS NNI interoperability test descriptions for RCS
- ETSI TR 180 003 V3.1.1:2012  
Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN) – Technical Report on NGN National IP Interconnection
- ETSI TS 186 011-1 V4.1.3:2012  
IMS Network Testing (INT) – IMS NNI Interoperability Test Specifications – Part 1: Test purposes for IMS NNI Interoperability
- ETSI TS 186 011-2 V4.1.3:2012  
IMS Network Testing (INT) – IMS NNI Interoperability Test Specifications – Part 2: Test description for IMS NNI Interoperability
- ETSI TS 186 011-3 V4.1.3:2012  
IMS Network Testing (INT) – IMS NNI Interoperability Test Specifications – Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)

### 33.060.20 Prijamna i odašiljačka oprema

#### Europska normizacija ETSI

- ETSI TR 102 684 V1.1.1:2012  
Reconfigurable Radio Systems (RRS) – Feasibility Study on Control Channels for Cognitive Radio Systems

### 33.060.40 Kabelski distribucijski sustavi

#### Međunarodna normizacija IEC

- IEC 60728-13-1:2012  
Cable networks for television signals, sound signals and interactive services – Part 13-1: Bandwidth expansion for broadcast signal over FTTH system

#### Europska normizacija ETSI

- ETSI ES 202 874-1 V1.2.1:2012  
Access, Terminals, Transmission and Multiplexing (ATTM) – External Common Power Supply for Customer Premises Network and Access Equipment – Part 1: Functional requirements

### 33.070.10 Terestrijalni trunking radio (TETRA)

#### Europska normizacija ETSI

- EN 300 392-9 V1.5.1:2012  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 9: General requirements for supplementary services
- EN 300 392-12-4 V1.3.1:2012  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 4: Call Forwarding (CF)
- EN 300 392-12-20 V1.2.1:2012  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 20: Discreet Listening (DL)
- EN 300 392-12-21 V1.5.1:2012  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 21: Ambience Listening (AL)

- EN 300 392-12-23 V1.2.1:2012  
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 12: Supplementary services stage 3 – Sub-part 23: Call Completion on No Reply (CCNR)

### 33.070.30 Digitalne poboljšane bežične telekomunikacije (DECT)

#### Europska normizacija ETSI

- EN 300 175-1 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 1: Overview
- EN 300 175-2 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 2: Physical Layer (PHL)
- EN 300 175-3 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 3: Medium Access Control (MAC) layer
- EN 300 175-4 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 4: Data Link Control (DLC) layer
- EN 300 175-5 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 5: Network (NWK) layer
- EN 300 175-6 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 6: Identities and addressing
- EN 300 175-7 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 7: Security features
- EN 300 175-8 V2.4.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Common Interface (CI) – Part 8: Speech and audio coding and transmission
- EN 300 444 V2.3.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – Generic Access Profile (GAP)
- ETSI TS 102 841 V1.3.1:2012  
Digital Enhanced Cordless Telecommunications (DECT) – New Generation DECT – Extended wideband speech services – Profile Test Specification (PTS) and Test Case Library (TCL)

### 33.070.40 Sateliti

#### Europska normizacija ETSI

- ETSI TR 101 542 V1.1.1:2012  
Satellite Earth Stations and Systems (SES) – Comparison of candidate radio interfaces performances in MSS context

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

#### Europska normizacija ETSI

- ETSI TS 103 066 V1.1.2:2012  
Railway Telecommunications (RT) – Rel-4 Core Network requirements for GSM-R

- ETSI TS 123 003 V6.17.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 6.17.0 Release 6)
- ETSI TS 123 003 V7.11.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 7.11.0 Release 7)
- ETSI TS 123 003 V8.16.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 8.16.0 Release 8)
- ETSI TS 123 003 V9.10.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 9.10.0 Release 9)
- ETSI TS 123 003 V10.5.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 10.5.0 Release 10)
- ETSI TS 123 007 V10.7.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 10.7.0 Release 10)
- ETSI TS 123 060 V8.15.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 8.15.0 Release 8)
- ETSI TS 123 060 V9.12.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 9.12.0 Release 9)
- ETSI TS 123 284 V10.4.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Local Call Local Switch (LCLS) – Stage 2 (3GPP TS 23.284 version 10.4.0 Release 10)
- ETSI TS 124 229 V9.11.1:2012  
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 9.11.1 Release 9)
- ETSI TS 125 331 V7.22.0:2012  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 7.22.0 Release 7)
- ETSI TS 125 331 V8.18.0:2012  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 8.18.0 Release 8)
- ETSI TS 125 331 V9.10.0:2012  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 9.10.0 Release 9)
- ETSI TS 125 331 V10.7.0:2012  
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 10.7.0 Release 10)
- ETSI TS 125 419 V10.2.0:2012  
Universal Mobile Telecommunications System (UMTS) – UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP) (3GPP TS 25.419 version 10.2.0 Release 10)
- ETSI TS 125 423 V8.13.0:2012  
Universal Mobile Telecommunications System (UMTS) – UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling (3GPP TS 25.423 version 8.13.0 Release 8)
- ETSI TS 125 423 V9.9.0:2012  
Universal Mobile Telecommunications System (UMTS) – UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling (3GPP TS 25.423 version 9.9.0 Release 9)
- ETSI TS 125 423 V10.6.0:2012  
Universal Mobile Telecommunications System (UMTS) – UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling (3GPP TS 25.423 version 10.6.0 Release 10)
- ETSI TS 126 114 V8.10.1:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 8.10.1 Release 8)
- ETSI TS 126 114 V8.10.2:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Multimedia telephony – Media handling and interaction (3GPP TS 26.114 version 8.10.2 Release 8)
- ETSI TS 129 002 V9.8.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 9.8.0 Release 9)
- ETSI TS 129 002 V10.6.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 10.6.0 Release 10)
- ETSI TS 129 060 V9.10.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 9.10.0 Release 9)
- ETSI TS 129 060 V10.5.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 10.5.0 Release 10)
- ETSI TS 129 168 V9.5.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE; Cell Broadcast Centre interfaces with the Evolved Packet Core – Stage 3 (3GPP TS 29.168 version 9.5.0 Release 9)
- ETSI TS 129 168 V10.2.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Cell Broadcast Centre interfaces with the Evolved Packet Core – Stage 3 (3GPP TS 29.168 version 10.2.0 Release 10)

- ETSI TS 129 173 V9.3.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Diameter-based SLh interface for Control Plane LCS (3GPP TS 29.173 version 9.3.0 Release 9)
- ETSI TS 129 173 V10.2.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Diameter-based SLh interface for Control Plane LCS (3GPP TS 29.173 version 10.2.0 Release 10)
- ETSI TS 129 228 V8.16.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 8.16.0 Release 8)
- ETSI TS 129 228 V9.9.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 9.9.0 Release 9)
- ETSI TS 129 228 V10.5.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 10.5.0 Release 10)
- ETSI TS 129 230 V9.10.1:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 9.10.1 Release 9)
- ETSI TS 129 230 V10.6.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 10.6.0 Release 10)
- ETSI TS 129 272 V9.10.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 9.10.0 Release 9)
- ETSI TS 129 272 V10.6.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 10.6.0 Release 10)
- ETSI TS 129 273 V8.10.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 8.10.0 Release 8)
- ETSI TS 129 273 V9.9.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 9.9.0 Release 9)
- ETSI TS 129 273 V10.5.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 10.5.0 Release 10)
- ETSI TS 129 274 V9.10.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 9.10.0 Release 9)
- ETSI TS 129 274 V10.6.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 10.6.0 Release 10)
- ETSI TS 129 275 V9.8.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols – Stage 3 (3GPP TS 29.275 version 9.8.0 Release 9)
- ETSI TS 129 275 V10.5.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols – Stage 3 (3GPP TS 29.275 version 10.5.0 Release 10)
- ETSI TS 129 305 V9.1.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – InterWorking Function (IWF) between MAP based and Diameter based interfaces (3GPP TS 29.305 version 9.1.0 Release 9)
- ETSI TS 129 305 V10.2.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – InterWorking Function (IWF) between MAP based and Diameter based interfaces (3GPP TS 29.305 version 10.2.0 Release 10)
- ETSI TS 129 328 V9.8.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Sh interface – Signalling flows and message contents (3GPP TS 29.328 version 9.8.0 Release 9)
- ETSI TS 129 328 V10.5.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Sh interface – Signalling flows and message contents (3GPP TS 29.328 version 10.6.0 Release 10)
- ETSI TS 129 333 V8.6.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface – Stage 3 (3GPP TS 29.333 version 8.6.0 Release 8)
- ETSI TS 129 333 V9.2.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface – Stage 3 (3GPP TS 29.333 version 9.2.0 Release 9)
- ETSI TS 129 333 V10.3.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface – Stage 3 (3GPP TS 29.333 version 10.3.0 Release 10)
- ETSI TS 131 102 V10.5.0:2012  
Universal Mobile Telecommunications System (UMTS) – LTE – Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102 version 10.5.0 Release 10)

- ETSI TS 131 111 V6.15.0:2012  
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 6.15.0 Release 6)
- ETSI TS 131 111 V10.6.0:2012  
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 10.6.0 Release 10)
- ETSI TS 131 124 V10.4.0:2012  
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 10.4.0 Release 10)
- ETSI TS 131 130 V9.4.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – (U)SIM Application Programming Interface (API) – (U)SIM API for Java™ Card (3GPP TS 31.130 version 9.4.0 Release 9)
- ETSI TS 131 130 V10.2.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – (U)SIM Application Programming Interface (API) – (U)SIM API for Java™ Card (3GPP TS 31.130 version 10.2.0 Release 10)
- ETSI TS 131 130 V10.3.1:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – (U)SIM Application Programming Interface (API) – (U)SIM API for Java™ Card (3GPP TS 31.130 version 10.3.1 Release 10)
- ETSI TS 134 121-1 V10.2.1:2012  
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Radio transmission and reception (FDD) – Part 1: Conformance specification (3GPP TS 34.121-1 version 10.2.1 Release 10)
- ETSI TS 134 123-1 V9.8.0:2012  
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.123-1 version 9.8.0 Release 9)
- ETSI TS 134 123-1 V10.0.0:2012  
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 34.123-1 version 10.0.0 Release 10)
- ETSI TS 134 123-3 V9.3.0:2012  
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) conformance specification – Part 3: Abstract test suite (ATS) (3GPP TS 34.123-3 version 9.3.0 Release 9)
- ETSI TS 135 221 V11.0.1:2012  
Universal Mobile Telecommunications System (UMTS) – Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3 – Document 1: EEA3 and EIA3 specifications (3GPP TS 35.221 version 11.0.1 Release 11)
- ETSI TS 135 222 V11.0.1:2012  
Universal Mobile Telecommunications System (UMTS) – Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3 – Document 2: ZUC specification (3GPP TS 35.222 version 11.0.1 Release 11)
- ETSI TS 135 223 V11.0.1:2012  
Universal Mobile Telecommunications System (UMTS) – Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3 – Document 3: Implementors' test data (3GPP TS 35.223 version 11.0.1 Release 11)
- ETSI TR 135 924 V11.0.1:2012  
Universal Mobile Telecommunications System (UMTS) – Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3 – Document 4: Design and Evaluation Report (3GPP TR 35.924 version 11.0.1 Release 11)
- ETSI TS 136 523-1 V9.8.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 9.8.0 Release 9)
- ETSI TS 136 523-1 V10.0.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 10.0.0 Release 10)
- ETSI TS 136 133 V8.17.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 8.17.0 Release 8)
- ETSI TS 136 133 V10.6.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements for support of radio resource management (3GPP TS 36.133 version 10.6.0 Release 10)
- ETSI TS 136 141 V10.6.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Base Station (BS) conformance testing (3GPP TS 36.141 version 10.6.0 Release 10)
- ETSI TS 136 143 V10.3.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – FDD repeater conformance testing (3GPP TS 36.143 version 10.3.0 Release 10)
- ETSI TS 136 307 V8.5.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 8.5.0 Release 8)
- ETSI TS 136 307 V9.5.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 9.5.0 Release 9)
- ETSI TS 136 307 V10.3.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 36.307 version 10.3.0 Release 10)
- ETSI TS 136 508 V9.80:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Common test environments for User Equipment (UE) conformance testing (3GPP TS 36.508 version 9.8.0 Release 9)
- ETSI TS 136 508 V10.0.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – Common test environments for User Equipment (UE) conformance testing (3GPP TS 36.508 version 10.0.0 Release 10)

- ETSI TS 136 521-3 V10.0.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 10.0.0 Release 10)
- ETSI TS 136 523-3 V9.3.0:2012  
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 9.3.0 Release 9)
- ETSI TS 137 104 V10.6.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 10.6.0 Release 10)
- ETSI TS 137 141 V9.7.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 9.7.0 Release 9)
- ETSI TS 137 141 V10.6.0:2012  
Digital cellular telecommunications system (Phase 2+) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 10.6.0 Release 10)
- ETSI TS 148 071 V9.1.0:2012  
Digital cellular telecommunications system (Phase 2+) – Location Services (LCS) – Serving Mobile Location Centre – Base Station System (SMLC-BSS) interface – Layer 3 specification (3GPP TS 48.071 version 9.1.0 Release 9)
- ETSI TS 151 010-1 V9.9.0:2012  
Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 9.9.0 Release 9)
- ETSI TS 151 010-1 V10.0.0:2012  
Digital cellular telecommunications system (Phase 2+) – Mobile Station (MS) conformance specification – Part 1: Conformance specification (3GPP TS 51.010-1 version 10.0.0 Release 10)

### 33.070.99 Ostale usluge pokretne mreže

#### Europska normizacija

##### ETSI

- EN 303 214 V1.2.1:2012  
Data Link Services (DLS) System – Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 – Requirements for ground constituents and system testing

### 33.100.01 Elektromagnetska kompatibilnost općenito

#### Međunarodna normizacija

##### IEC

- IEC 61800-3 Edition 2.1:2012  
Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods

### 33.100.10 Zračenje

#### Europska normizacija

##### ETSI

- EN 300 220-1 V2.4.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW – Part 1: Technical characteristics and test methods
- EN 300 220-2 V2.4.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Short Range Devices (SRD) – Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW – Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 301 489-34 V1.3.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 34: Specific conditions for External Power Supply (EPS) for mobile phones
- ETSI TS 102 361-1 V2.1.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 1: DMR Air Interface (AI) protocol
- ETSI TS 102 361-2 V2.1.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 2: DMR voice and generic services and facilities
- ETSI TS 102 658 V2.2.3:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Private Mobile Radio (dPMR) using FDMA with a channel spacing of 6,25 kHz
- ETSI TR 102 791 V1.1.1:2012  
Electromagnetic compatibility and Radio spectrum Matters (ERM) – System Reference Document – Short Range Devices – Technical characteristics of wireless aids for hearing impaired people operating in the VHF and UHF frequency range

### 33.100.20 Otpornost

#### Međunarodna normizacija

##### IEC

- IEC 61000-4-4:2012  
Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test
- IEC 61000-4-25:2001/am1:2012  
Amendment 1 – Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems
- IEC 61000-4-25 Edition 1.1:2012  
Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems

#### Europska normizacija

##### CENELEC

- EN 61000-4-25:2002/A1:2012  
Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems (IEC 61000-4-25:2001/am1:2012)

### 33.120.01 Sastavni dijelovi i pribor općenito

#### Međunarodna normizacija IEC

IEC 62037-1:2012  
Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods

### 33.120.10 Koaksijalni kabeli. Valovodi

#### Međunarodna normizacija IEC

IEC 62153-4-14:2012  
Metallic communication cable test methods – Part 4-14: Electromagnetic compatibility (EMC) – Coupling attenuation of cable assemblies (Field conditions) absorbing clamp method

### 33.140 Posebna mjerna oprema za upotrebu u telekomunikacijama

#### Međunarodna normizacija IEC

IEC 62087:2011  
Methods of measurement for the power consumption of audio, video and related equipment

#### Europska normizacija CENELEC

EN 62087:2012  
Methods of measurement for the power consumption of audio, video and related equipment (IEC 62087:2011)

### 33.170 Televizijski i radijski prijenos

#### Europska normizacija ETSI

EN 302 755 V1.3.1:2012  
Digital Video Broadcasting (DVB) – Frame structure channel coding and modulation for a second generation digital terrestrial television broadcasting system (DVB-T2)

ETSI TS 101 211 V1.11.1:2012  
Digital Video Broadcasting (DVB) – Guidelines on implementation and usage of Service Information (SI)

ETSI TS 101 211 V1.11.2:2012  
Digital Video Broadcasting (DVB) – Guidelines on implementation and usage of Service Information (SI)

ETSI TS 101 545-1 V1.1.1:2012  
Digital Video Broadcasting (DVB) – Second Generation DVB Interactive Satellite System (DVB-RCS2) – Part 1: Overview and System Level specification

ETSI TS 101 545-3 V1.1.1:2012  
Digital Video Broadcasting (DVB) – Second Generation DVB Interactive Satellite System (DVB-RCS2) – Part 3: Higher Layers Satellite Specification

ETSI TS 101 600 V1.1.1:2012  
Digital Video Broadcasting (DVB) – GEM Profile for Plano-Stereoscopic 3DTV

ETSI TS 102 812 V1.3.1:2012  
Digital Video Broadcasting (DVB) – Multimedia Home Platform (MHP) Specification 1.1.3

### 33.180.01 Svjetlovodni sustavi općenito

#### Međunarodna normizacija IEC

IEC/TR 61282-11:2012  
Fibre optic communication system design guides – Part 11: Multimode launch conditions

### 33.180.10 Svjetlovodna vlakna i kabeli

#### Međunarodna normizacija IEC

IEC 60794-2-11:2012  
Optical fibre cables – Part 2-11: Indoor optical fibre cables – Detailed specification for simplex and duplex cables for use in premises cabling

IEC 60794-2-21:2012  
Optical fibre cables – Part 2-21: Indoor optical fibre cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

### 33.180.20 Svjetlovodni vezne naprave

#### Međunarodna normizacija IEC

IEC 61300-3-38:2012  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-38: Examinations and measurements – Group delay, chromatic dispersion and phase ripple

IEC 61754-20:2012  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 20: Type LC connector family

IEC 61754-20-100:2012  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 20-100: Interface standard for LC connectors with protective housings related to IEC 61076-3-106

IEC 61754-28:2012  
Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 28: Type LF3 connector family

#### Europska normizacija CENELEC

EN 61300-3-28:2012  
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-28: Examinations and measurements – Transient loss (IEC 61300-3-28:2012)

EN 61753-087-6:2012  
Fibre optic interconnecting devices and passive components – Performance standard – Part 087-6: Non-connectorised single-mode bidirectional 1310 nm upstream and 1490 nm downstream WWDM devices for category O – Uncontrolled environment (IEC 61753-087-6:2012)

### 33.180.99 Ostala svjetlovodna oprema

#### Međunarodna normizacija IEC

IEC 61757-1:2012  
Fibre optic sensors – Part 1: Generic specification

## 35.020 Informacijska tehnologija (IT) općenito

### Međunarodna normizacija

#### IEC

IEC 60950-1 Edition 2.1:2012  
Information technology equipment – Safety – Part 1:  
General requirements

#### ISO

ISO/IEC 2382-36:2008/Cor 1:2012  
Information technology – Vocabulary – Part 36:  
Learning, education and training

### Europska normizacija

#### CEN

CWA 16458:2012  
European ICT Professional Profiles

#### CENELEC

CENELEC Guide 30  
CENELEC website & collaboration tool – Conditions  
of use and privacy policy

## 35.040 Skupovi znakova i kodiranje informacija

### Međunarodna normizacija

#### ISO

ISO/IEC 10646:2012  
Information technology – Universal Coded Character  
Set (UCS)

ISO/IEC 14496-5:2001/Amd 31:2012  
Information technology – Coding of audio-visual  
objects – Part 5: Reference software – Amendment  
31: Reference software for efficient representation of  
3D meshes with multiple attribute

ISO/IEC 14496-10:2012  
Information technology – Coding of audio-visual  
objects – Part 10: Advanced Video Coding

ISO/IEC 14496-27:2009/Amd 4:2012  
Information technology – Coding of audio-visual objects  
– Part 27: 3D Graphics conformance – Amendment 4:  
Conformance for efficient representation of 3D meshes  
with multiple attributes

ISO/IEC 14496-28:2012  
Information technology – Coding of audio-visual  
objects – Part 28: Composite font representation  
ISO/IEC 21000-4:2006/Amd 2:2012  
Information technology – Multimedia framework  
(MPEG-21) – Part 4: Intellectual Property Management  
and Protection Components – Amendment 2:  
Protection of presentation element

ISO/IEC 23000-12:2010/Amd 2:2012  
Information technology – Multimedia application format  
(MPEG-A) – Part 12: Interactive music application  
format – Amendment 2: Compact representation of  
dynamic volume change and audio equalization

ISO/IEC 23003-1:2007/Amd 1:2008/Cor 2:2012  
Information technology – MPEG audio technologies –  
Part 1: MPEG Surround – Amendment 1: Conformance  
testing; Technical Corrigendum 2

ISO/IEC 23003-3:2012  
Information technology – MPEG audio technologies –  
Part 3: Unified speech and audio coding

ISO/IEC 23009-1:2012  
Information technology – Dynamic adaptive streaming  
over HTTP (DASH) – Part 1: Media presentation  
description and segment formats

ISO/IEC 24800-6:2012  
Information technology – JPSearch – Part 6: Reference  
software

ISO/IEC 29178:2012  
Information technology – Mobile item identification  
and management – Service broker for Mobile AIDC  
services

ISO/IEC 27010:2012  
Information technology – Security techniques –  
Information security management for inter-sector and  
inter-organizational communications

ISO/IEC 29175:2012  
Information technology – Mobile item identification and  
management – User data for Mobile AIDC services

## 35.060 Jezici koji se upotrebljavaju u informacijskoj tehnologiji

### Međunarodna normizacija

#### ISO

ISO/IEC 19505-1:2012  
Information technology – Object Management Group  
Unified Modeling Language (OMG UML) – Part 1:  
Infrastructure

ISO/IEC 19505-2:2012  
Information technology – Object Management Group  
Unified Modeling Language (OMG UML) – Part 2:  
Superstructure

ISO/IEC 19507:2012  
Information technology – Object Management Group  
Object Constraint Language (OCL)

ISO/IEC 30170:2012  
Information technology – Programming languages  
– Ruby

## 35.080 Softver (programaska podrška)

### Međunarodna normizacija

#### ISO

ISO/IEC 19500-1:2012  
Information technology – Object Management Group  
– Common Object Request Broker Architecture  
(CORBA) – Part 1: Interfaces

ISO/IEC 19500-2:2012  
Information technology – Object Management Group  
– Common Object Request Broker Architecture  
(CORBA) – Part 2: Interoperability

ISO/IEC 19500-3:2012  
Information technology – Object Management Group  
– Common Object Request Broker Architecture  
(CORBA) – Part 3: Components

ISO/IEC 19506:2012  
Information technology – Object Management Group  
Architecture-Driven Modernization (ADM) – Knowledge  
Discovery Meta-Model (KDM)

## 35.100.01 Međupovezivanje otvorenih sustava općenito

### Međunarodna normizacija

#### ISO

ISO/IEC 9834-1:2012  
Information technology – Procedures for the operation  
of object identifier registration authorities: General  
procedures and top arcs of the international object  
identifier tree



## 35.100.20 Sloj veze između podataka

### Europska normizacija CENELEC

EN 61784-5-2:2012  
Industrial communication networks – Profiles –  
Part 5-2: Installation of fieldbuses – Installation profiles  
for CPF 2 (IEC 61784-5-2:2010)

## 35.110 Umrežavanje

### Europska normizacija CENELEC

CLC/TR 50173-99-3:2012  
Information technology – Generic cabling systems –  
Part 99-3: Home cabling infrastructures up to 50 m in  
length to support simultaneous and non simultaneous  
provision of applications

EN 62439-4:2010/A1:2012  
Industrial communication networks – High availability  
automation networks – Part 4: Cross-network  
Redundancy Protocol (CRP)  
(IEC 62439-4:2010/A1:2012)

### Europska normizacija ETSI

ETSI GS INS 008 V1.1.1:2012  
Identity and access management for networks  
and Services (INS) – Distributed access control  
enforcement framework – Architecture

## 35.140 Računalna grafika

### Međunarodna normizacija ISO

ISO/IEC 18023-1:2006/Amd 1:2012  
Information technology – SEDRIS – Part 1: Functional  
specification

ISO/IEC 18023-3:2006/Amd 1:2012  
Information technology – SEDRIS – Part 3: Transmittal  
format binary encoding

ISO/IEC 18024-4:2006/Amd 1:2012  
Information technology – SEDRIS language bindings  
– Part 4: C

## 35.160 Mikroprocesorski sustavi

### Europska normizacija CENELEC

EN 61784-5-2:2012  
Industrial communication networks – Profiles –  
Part 5-2: Installation of fieldbuses – Installation profiles  
for CPF 2 (IEC 61784-5-2:2010)

## 35.180 Terminalna i druga vanjska oprema informacijske tehnologije

### Međunarodna normizacija ISO

ISO/TR 9241-331:2012  
Ergonomics of human-system interaction – Part 331:  
Optical characteristics of autostereoscopic displays

## 35.220.22 Magnetne vrpce

### Međunarodna normizacija ISO

ISO 18933:2012  
Imaging materials – Magnetic tape – Care and handling  
practices for extended usage

## 35.240.01 Primjene informacijske tehnologije općenito

### Međunarodna normizacija ISO

ISO/IEC 16680:2012  
Information technology – The Open Group Service  
Integration Maturity Model (OSIMM)

## 35.240.15 Identifikacijske kartice i pripadajuće naprave

### Međunarodna normizacija ISO

ISO/IEC 10373-6:2011/Amd 1:2012  
Identification cards – Test methods – Part 6: Proximity  
cards – Amendment 1: Additional PICC classes

ISO/IEC 14443-1:2008/Amd 1:2012  
Identification cards – Contactless integrated circuit  
cards – Proximity cards – Part 1: Physical characteristics  
– Amendment 1: Additional PICC classes

ISO/IEC 19794-2:2011/Cor 1:2012  
Information technology – Biometric data interchange  
formats – Part 2: Finger minutiae data

ISO/IEC 19794-4:2011/Cor 1:2012  
Information technology – Biometric data interchange  
formats – Part 4: Finger image data

ISO/IEC 19794-6:2011/Cor 1:2012  
Information technology – Biometric data interchange  
formats – Part 6: Iris image data

ISO/IEC 19794-8:2011/Cor 1:2012  
Information technology – Biometric data interchange  
formats – Part 8: Finger pattern skeletal data

ISO/IEC 19794-9:2011/Cor 1:2012  
Information technology – Biometric data interchange  
formats – Part 9: Vascular image data

ISO/IEC 24789-1:2012  
Identification cards – Card service life – Part 1:  
Application profiles and requirements

ISO/IEC 29109-5:2012  
Information technology – Conformance testing  
methodology for biometric data interchange formats  
defined in ISO/IEC 19794 – Part 5: Face image data

## 35.240.20 Primjene IT-a u uredskom poslovanju

### Međunarodna normizacija ISO

ISO/IEC 29136:2012  
Information technology – User interfaces – Accessibility  
of personal computer hardware

## 35.240.30 Primjene IT-a u obavješćivanju, dokumentaciji i izdavaštvu

### Međunarodna normizacija IEC

- IEC 62665:2012  
Multimedia systems and equipment – Multimedia e-publishing and e-books technologies – Texture map for auditory presentation of printed texts

## 35.240.50 Primjene IT-a u industriji

### Međunarodna normizacija IEC

- IEC 61987-10:2009/Corr.1:2012  
Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 10: List of Properties (LOPs) for Industrial-Process Measurement and Control for Electronic Data Exchange – Fundamentals

### Europska normizacija CENELEC

- EN 61784-5-2:2012  
Industrial communication networks – Profiles – Part 5-2: Installation of fieldbuses – Installation profiles for CPF 2 (IEC 61784-5-2:2010)
- EN 62337:2012  
Commissioning of electrical, instrumentation and control systems in the process industry – Specific phases and milestones (IEC 62337:2012)
- EN 62381:2012  
Automation systems in the process industry – Factory acceptance test (FAT), site acceptance test (SAT) and site integration test (SIT) (IEC 62381:2012)

## 35.240.60 Primjene IT-a u prijevozu i trgovini

### Međunarodna normizacija ISO

- ISO 13183:2012  
Intelligent transport systems – Communications access for land mobiles (CALM) – Using broadcast communications
- ISO/TR 13185-1:2012  
Intelligent transport systems – Vehicle interface for provisioning and support of ITS services – Part 1: General information and use case definition
- ISO/IEC 15944-8:2012  
Information technology – Business Operational View – Part 8: Identification of privacy protection requirements as external constraints on business transactions

### Europska normizacija CEN

- EN 15876-1:2010+A1:2012  
Electronic fee collection – Evaluation of on-board and roadside equipment for conformity to EN 15509 – Part 1: Test suite structure and test purposes
- EN 4817:2012  
Aerospace series – Passive UHF RFID tags intended for aircraft use
- EN 4818:2012  
Aerospace series – Passive HF RFID tags intended for aircraft use

- EN 4819:2012  
Aerospace series – Contact Memory Button (CMB) tags intended for aircraft use
- CWA 16460:2012  
Good Practice: e-Invoicing Compliance Guidelines – The Commentary
- CWA 16461:2012  
Electronic invoice processes in Europe and enablement of SMEs to use them efficiently
- CWA 16462:2012  
CEN e-Invoice Gateway
- CWA 16463:2012  
Code of Practice for Electronic Invoicing in the European Union
- CWA 16464-1:2012  
Electronic invoicing – Part 1: Addressing and Routing
- CWA 16464-2:2012  
Electronic invoicing – Part 2: Model Interoperability Agreement for Transmission and Processing of Electronic Invoices and other Business Documents
- CWA 16464-3:2012  
Electronic invoicing – Part 3: Conformance Criteria for Interoperability between Electronic Invoicing Services

### ETSI

- ETSI TS 102 916-1 V1.1.1:2012  
Intelligent Transport Systems (ITS) – Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 102 916-2 V1.1.1:2012  
Intelligent Transport Systems (ITS) – Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 102 916-3 V1.1.1:2012  
Intelligent Transport Systems (ITS) – Test specifications for the methods to ensure coexistence of Cooperative ITS G5 with RTTT DSRC – Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)

## 35.240.99 Primjene IT-a u ostalim područjima

### Međunarodna normizacija ISO

- ISO/IEC TR 12785-3:2012  
Information technology – Learning, education, and training – Content packaging – Part 3: Best practice and implementation guide
- ISO/IEC 19788-5:2012  
Information technology – Learning, education and training – Metadata for learning resources – Part 5: Educational elements

## 37.020 Optička oprema

### Međunarodna normizacija ISO

- ISO 9022-1:2012  
Optics and photonics – Environmental test methods – Part 1: Definitions, extent of testing
- ISO 9022-22:2012  
Optics and photonics – Environmental test methods – Part 22: Combined cold, dry heat or temperature change with bump or random vibration

## 37.040.01 Fotografija općenito

### Međunarodna normizacija ISO

- ISO 20462-3:2012  
Photography – Psychophysical experimental methods for estimating image quality – Part 3: Quality ruler method

## 37.040.20 Fotografski papir, filmovi i kazete

### Međunarodna normizacija ISO

- ISO 18913:2012  
Imaging materials – Permanence – Vocabulary
- ISO 18929:2012  
Imaging materials – Wet-processed silver-gelatin type black-and-white photographic reflection prints – Specifications for dark storage
- ISO 18936:2012  
Imaging materials – Processed colour photographs – Methods for measuring thermal stability
- ISO 18944:2012  
Imaging materials – Reflection colour photographic prints – Test print construction and measurement

## 43.020 Cestovna vozila općenito

### Međunarodna normizacija ISO

- ISO 5130:2007/Amd 1:2012  
Acoustics – Measurements of sound pressure level emitted by stationary road vehicles

## 43.040.10 Električna i elektronička oprema

### Međunarodna normizacija ISO

- ISO 11446-2:2012  
Road vehicles – Connectors for the electrical connection of towing and towed vehicles – Part 2: 13-pole connectors for vehicles with 12 V nominal supply voltage intended to cross water fords
- ISO 11452-9:2012  
Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 9: Portable transmitters

## 43.040.70 Spojke

### Međunarodna normizacija ISO

- ISO 13044-1:2012  
Road vehicles – 24 V fully automatic coupling systems (FACS) for heavy commercial vehicle combinations – Part 1: General requirements and definitions

## 43.060.40 Sustavi goriva

### Međunarodna normizacija ISO

- ISO 13296:2012  
Diesel engines – High-pressure fuel injection pipe assemblies – General requirements and dimensions

- ISO 13948-2:2012  
Diesel engines – Fuel injection pumps and fuel injector low-pressure connections – Part 2: Non-threaded (push-on) connections

- ISO 15500-2:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 2: Performance and general test methods

- ISO 15500-3:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 3: Check valve

- ISO 15500-4:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 4: Manual valve

- ISO 15500-5:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 5: Manual cylinder valve

- ISO 15500-6:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 6: Automatic valve

- ISO 15500-9:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 9: Pressure regulator

- ISO 15500-13:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 13: Pressure relief device (PRD)

- ISO 15500-14:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 14: Excess flow valve

- ISO 15500-16:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 16: Rigid fuel line in stainless steel

- ISO 15500-17:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 17: Flexible fuel line

- ISO 15500-18:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 18: Filter

- ISO 15500-19:2012  
Road vehicles – Compressed natural gas (CNG) fuel system components – Part 19: Fittings

- ISO 15501-1:2012  
Road vehicles – Compressed natural gas (CNG) fuel systems – Part 1: Safety requirements

## 43.120 Električna cestovna vozila

### Međunarodna normizacija ISO

- ISO/TR 8713:2012  
Electrically propelled road vehicles – Vocabulary

## 43.140 Motocikli i mopedi

### Međunarodna normizacija ISO

- ISO 4106:2012  
Motorcycles – Engine test code – Net power

## 45.060.01 Željeznička tračnička vozila općenito

### Europska normizacija CENELEC

EN 50388:2012

Railway Applications – Power supply and rolling stock – Technical criteria for the coordination between power supply (substation) and rolling stock to achieve interoperability

## 45.060.10 Vučna vozila

### Europska normizacija CENELEC

EN 50367:2012

Railway applications – Current collection systems – Technical criteria for the interaction between pantograph and overhead line (to achieve free access)

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

### Međunarodna normizacija ISO

ISO 20283-4:2012

Mechanical vibration – Measurement of vibration on ships – Part 4: Measurement and evaluation of vibration of the ship propulsion machinery

ISO 30005:2012

Ships and marine technology – Ship recycling management systems – Information control for hazardous materials in the manufacturing chain of shipbuilding and ship operations

## 47.020.70 Oprema za navigaciju i upravljanje

### Međunarodna normizacija IEC

IEC 61097-4:2012

Global maritime distress and safety system (GMDSS) – Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment – Operational and performance requirements, methods of testing and required test results

IEC 61097-15:2012

Global maritime distress and safety system (GMDSS) – Part 15: Inmarsat FB500 ship earth station – Operational and performance requirements, methods of testing and required test results

### ISO

ISO 14859:2012

Ships and marine technology – Sound reception systems

## 47.040 Morska plovila

### Međunarodna normizacija ISO

ISO 11347:2012

Ships and marine technology – Large yachts – Measurement and assessment of the visual appearance of coatings

## 49.035 Sastavni dijelovi za zrakoplovne konstrukcije

### Europska normizacija CEN

EN 4677-001:2012

Aerospace series – Welded and brazed assemblies for aerospace construction – Joints of metallic materials by electron beam welding – Part 001: Quality of welded assemblies

EN 4817:2012

Aerospace series – Passive UHF RFID tags intended for aircraft use

EN 4818:2012

Aerospace series – Passive HF RFID tags intended for aircraft use

EN 4819:2012

Aerospace series – Contact Memory Button (CMB) tags intended for aircraft use

## 49.060 Zrakoplovna električna oprema i sustavi

### Europska normizacija CEN

EN 2242:2012

Aerospace series – Crimping of electric cables with conductors defined by EN 2083, EN 4434 and EN 2346

EN 2997-003:2012

Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 003: Square flange receptacle – Product standard

EN 2997-005:2012

Aerospace series – Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak – Part 005: Hermetic square flange receptacle – Product standard

## 49.090 Oprema i instrumenti u zrakoplovu

### Međunarodna normizacija IEC

IEC 62396-1:2012

Process management for avionics – Atmospheric radiation effects – Part 1: Accommodation of atmospheric radiation effects via single event effects within avionics electronic equipment

### Europska normizacija CEN

EN 3745-301:2012

Aerospace series – Fibres and cables, optical, aircraft use – Test methods – Part 301: Attenuation

### ETSI

EN 303 213-1 V1.3.1:2012

Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 1: Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 for A-SMGCS Level 1 including external interfaces

EN 303 213-2 V1.2.1:2012

Advanced Surface Movement Guidance and Control System (A-SMGCS) – Part 2: Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 for A-SMGCS Level 2 including external interfaces

## **49.095 Oprema za putnike i kabine**

### **Europska normizacija**

**CEN**

EN 4697:2012

Aerospace series – General and installation requirements for passenger seat fittings

## **49.140 Svemirski sustavi i operacije**

### **Međunarodna normizacija**

**ISO**

ISO 26869:2012

Space systems – Small-auxiliary-spacecraft (SASC)-to-launch-vehicle interface control document

## **53.020.20 Dizalice**

### **Europska normizacija**

**CEN**

EN 13001-3-1:2012

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

## **53.060 Industrijski prijevozni sustavi**

### **Europska normizacija**

**CEN**

EN 15830:2012

Rough-terrain variable reach trucks – Visibility – Test methods and verification

## **59.080.01 Tekstili općenito**

### **Međunarodna normizacija**

**ISO**

ISO 3758:2012

Textiles – Care labelling code using symbols

ISO 6330:2012

Textiles – Domestic washing and drying procedures for textile testing

### **Europska normizacija**

**CEN**

EN ISO 3758:2012

Textiles – Care labelling code using symbols (ISO 3758:2012)

EN ISO 6330:2012

Textiles – Domestic washing and drying procedures for textile testing (ISO 6330:2012)

## **59.080.30 Tekstilni proizvodi**

### **Međunarodna normizacija**

**ISO**

ISO 4920:2012

Textile fabrics – Determination of resistance to surface wetting (spray test)

## **59.080.40 Naslojeni plošni tekstil**

### **Europska normizacija**

**CEN**

EN 15618:2009+A1:2012

Rubber- or plastic-coated fabrics – Upholstery fabrics – Classification and methods of test

## **59.140.20 Sirova koža, koža**

### **Međunarodna normizacija**

**ISO**

ISO 11396:2012

Crocodile skins – Presentation, description of defects, grading on the basis of defects, size (length) and origin

ISO 11398:2012

Raw ostrich skins – Description of defects, guidelines for presentation and grading on basis of defects

## **59.140.30 Koža i krzno**

### **Europska normizacija**

**CEN**

EN 14906:2012

Leather – Leather for automotive – Test methods and testing parameters

## **65.060.01 Poljoprivredni strojevi i oprema općenito**

### **Međunarodna normizacija**

**ISO**

ISO 3767-1:1998/Amd 2:2012

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays – Part 1: Common symbols – Amendment 2 – Additional symbols concerning the engine emissions system and diesel exhaust fluid

## **65.060.25 Oprema za čuvanje, pripremu i distribuciju gnojiva**

### **Europska normizacija**

**CEN**

EN 13739-2:2011/AC:2012

Agricultural machinery – Solid fertilizer broadcasters and full width distributors – Environmental protection – Part 2: Test methods

## **65.060.80 Oprema za šumarstvo**

### **Međunarodna normizacija**

**ISO**

ISO 11839:2010/Cor 1:2012

Machinery for forestry – Glazing and panel materials used in operator enclosures for protection against thrown sawteeth – Test method and performance criteria

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

### **Međunarodna normizacija ISO**

- ISO 15152:2003/Amd 1:2012  
Tobacco – Determination of the content of total alkaloids as nicotine – Continuous-flow analysis method
- ISO 15153:2003/Amd 1:2012  
Tobacco – Determination of the content of reducing substances – Continuous-flow analysis method
- ISO 15154:2003/Amd 1:2012  
Tobacco – Determination of the content of reducing carbohydrates – Continuous-flow analysis method
- ISO 15517:2003/Amd 1:2012  
Tobacco – Determination of nitrate content – Continuous-flow analysis method

## **67.050 Opće metode ispitivanja i analize hrane**

### **Europska normizacija CEN**

- CEN/TR 16338:2012  
Foodstuffs – Detection of food allergens – Template for supplying information about immunological methods and molecular biological methods

## **67.100.01 Mlijeko i mliječni proizvodi općenito**

### **Međunarodna normizacija ISO**

- ISO 15163:2012  
Milk and milk products – Calf rennet and adult bovine rennet – Determination by chromatography of chymosin and bovine pepsin contents

## **67.100.10 Mlijeko i obrađeni mliječni proizvodi**

### **Međunarodna normizacija ISO**

- ISO 15174:2012  
Milk and milk products – Microbial coagulants – Determination of total milk-clotting activity

## **67.120.30 Riba i riblji proizvodi**

### **Europska normizacija CEN**

- EN 16204:2012  
Foodstuffs – Determination of lipophilic algal toxins (okadaic acid group toxins, yessotoxins, azaspiracids, pectenotoxins) in shellfish and shellfish products by LC-MS/MS

## **67.140.10 Čaj**

### **Međunarodna normizacija ISO**

- ISO 7513:1990/Amd 1:2012  
Instant tea in solid form – Determination of moisture content (loss in mass at 103 degrees C)

## **67.140.20 Kava i nadomjesci za kavu**

### **Međunarodna normizacija ISO**

- ISO 24115:2012  
Green coffee – Procedure for calibration of moisture meters – Routine method

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

### **Europska normizacija CEN**

- EN 13951:2012  
Liquid pumps – Safety requirements – Agrifoodstuffs equipment; Design rules to ensure hygiene in use

## **71.040.10 Kemijski laboratoriji. Laboratorijska oprema**

### **Europska normizacija CEN**

- EN 14175-7:2012  
Fume cupboards – Part 7: Fume cupboards for high heat and acidic load

## **71.040.40 Kemijska analiza**

### **Međunarodna normizacija ISO**

- ISO 16129:2012  
Surface chemical analysis – X-ray photoelectron spectroscopy – Procedures for assessing the day-to-day performance of an X-ray photoelectron spectrometer

## **71.100.70 Kozmetika. Toaletne potrepštine**

### **Međunarodna normizacija ISO**

- ISO 11930:2012  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product

### **Europska normizacija CEN**

- EN ISO 11930:2012  
Cosmetics – Microbiology – Evaluation of the antimicrobial protection of a cosmetic product (ISO 11930:2012)

## **75.060 Prirodni plin**

### **Međunarodna normizacija ISO**

- ISO 6974-1:2012  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 1: General guidelines and calculation of composition
- ISO 6974-2:2012  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 2: Uncertainty calculations

## **Europska normizacija CEN**

- EN ISO 6974-1:2012  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 1: General guidelines and calculation of composition (ISO 6974-1:2012)
- EN ISO 6974-2:2012  
Natural gas – Determination of composition and associated uncertainty by gas chromatography – Part 2: Uncertainty calculations (ISO 6974-2:2012)

## **75.140 Vosak, bitumenski materijali i ostali naftni proizvodi**

### **Međunarodna normizacija ISO**

- ISO 12846:2012  
Water quality – Determination of mercury – Method using atomic absorption spectrometry (AAS) with and without enrichment

### **Europska normizacija CEN**

- EN 13075-1:2012  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method
- EN 14769:2012  
Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV)
- EN 14770:2012  
Bitumen and bituminous binders – Determination of complex shear modulus and phase angle – Dynamic Shear Rheometer (DSR)
- EN 14771:2012  
Bitumen and bituminous binders – Determination of the flexural creep stiffness – Bending Beam Rheometer (BBR)

## **75.160.20 Tekuća goriva**

### **Europska normizacija CEN**

- CEN/TR 16366:2012  
Liquid petroleum products – Middle distillates and fatty acid methyl ester (FAME) fuels and blends – Round Robin report on applicability of Rapid Small Scale Oxidation Test method

## **75.180.10 Oprema za iskorištavanje i vađenje**

### **Međunarodna normizacija ISO**

- ISO 10426-1:2009/Cor 2:2012  
Petroleum and natural gas industries – Cements and materials for well cementing – Part 1: Specification

## **77.040.10 Mehaničko ispitivanje metala**

### **Međunarodna normizacija ISO**

- ISO 7800:2012  
Metallic materials – Wire – Simple torsion test

## **77.060 Korozija metala**

### **Međunarodna normizacija ISO**

- ISO 9227:2012  
Corrosion tests in artificial atmospheres – Salt spray tests

### **Europska normizacija CEN**

- EN ISO 9227:2012  
Corrosion tests in artificial atmospheres – Salt spray tests (ISO 9227:2012)

## **77.120.50 Titan i titanove legure**

### **Međunarodna normizacija ISO**

- ISO 13092:2012  
Titanium and titanium alloys – Titanium sponge

## **77.140.01 Proizvodi od željeznog lijeva i čelika općenito**

### **Međunarodna normizacija ISO**

- ISO 630-3:2012  
Structural steels – Part 3: Technical delivery conditions for fine-grain structural steels
- ISO 630-4:2012  
Structural steels – Part 4: Technical delivery conditions for high-yield-strength quenched and tempered structural steel plates

## **77.150.30 Proizvodi od bakra**

### **Europska normizacija CEN**

- EN 12451:2012  
Copper and copper alloys – Seamless, round tubes for heat exchangers
- EN 12452:2012  
Copper and copper alloys – Rolled, finned, seamless tubes for heat exchangers

## **81.040.20 Staklo u graditeljstvu**

### **Međunarodna normizacija ISO**

- ISO 12543-6:2011/Cor 1:2012  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance; Technical Corrigendum 1

## **Europska normizacija CEN**

EN ISO 12543-6:2011/AC:2012  
Glass in building – Laminated glass and laminated safety glass – Part 6: Appearance – Technical Corrigendum 1 (ISO 12543-6:2011/Cor 1:2012)

## **81.060.30 Tehnička keramika**

### **Međunarodna normizacija ISO**

ISO 23145-2:2012  
Fine ceramics (advanced ceramics, advanced technical ceramics) – Determination of bulk density of ceramic powders – Part 2: Untapped density

## **83.040.10 Lateks i sirova guma**

### **Međunarodna normizacija ISO**

ISO 127:2012  
Rubber, natural latex concentrate – Determination of KOH number

ISO 248-2:2012  
Rubber, raw – Determination of volatile-matter content – Part 2: Thermogravimetric methods using an automatic analyser with an infrared drying unit

## **83.040.20 Sastojci gume**

### **Međunarodna normizacija ISO**

ISO 1138:2007/Amd 1:2012  
Rubber compounding ingredients – Carbon black – Determination of sulfur content – Amendment 1: Clarification of digestion temperature in Subclause 3.4.5

ISO 18852:2012  
Rubber compounding ingredients – Determination of multipoint nitrogen surface area (NSA) and statistical thickness surface area (STSA)

## **83.060 Guma**

### **Međunarodna normizacija ISO**

ISO 2782-1:2012  
Rubber, vulcanized or thermoplastic – Determination of permeability to gases – Part 1: Differential-pressure methods

ISO 2782-2:2012  
Rubber, vulcanized or thermoplastic – Determination of permeability to gases – Part 2: Equal-pressure method

Rubber, vulcanized or thermoplastic – Determination of insulation resistance

ISO 2951:2012  
Rubber, vulcanized or thermoplastic – Determination of insulation resistance

## **83.080.01 Plastika općenito**

### **Međunarodna normizacija ISO**

ISO 1183-1:2012  
Plastics – Methods for determining the density of non-cellular plastics – Part 1: Immersion method, liquid pycnometer method and titration method

ISO 6721-11:2012  
Plastics – Determination of dynamic mechanical properties – Part 11: Glass transition temperature

ISO 9352:2012  
Plastics – Determination of resistance to wear by abrasive wheels

ISO 13975:2012  
Plastics – Determination of the ultimate anaerobic biodegradation of plastic materials in controlled slurry digestion systems – Method by measurement of biogas production

ISO 17088:2012  
Specifications for compostable plastics

## **83.100 Pjenasti materijali**

### **Međunarodna normizacija ISO**

ISO 7214:2012  
Cellular plastics – Polyethylene – Methods of test

### **Europska normizacija CEN**

EN ISO 7214:2012  
Cellular plastics – Polyethylene – Methods of test (ISO 7214:2012)

## **85.060 Papir i karton**

### **Međunarodna normizacija ISO**

ISO 1974:2012  
Paper – Determination of tearing resistance – Elmendorf method

### **Europska normizacija CEN**

EN ISO 1974:2012  
Paper – Determination of tearing resistance – Elmendorf method (ISO 1974:2012)

## **91.040.01 Građevine općenito**

### **Međunarodna normizacija ISO**

ISO 11855-5:2012  
Building environment design – Design, dimensioning, installation and control of embedded radiant heating and cooling systems – Part 5: Installation

## **91.080.20 Drvene konstrukcije**

### **Europska normizacija CEN**

EN 14592:2008+A1:2012  
Timber structures – Dowel-type fasteners – Requirements



## 91.080.30 Zidarstvo

### Europska normizacija CEN

- EN 1745:2012  
Masonry and masonry products – Methods for determining thermal properties

## 91.100.10 Cement. Gips. Vapno. Mort

### Međunarodna normizacija ISO

- ISO 10426-1:2009/Cor 2:2012  
Petroleum and natural gas industries – Cements and materials for well cementing – Part 1: Specification

## 91.100.30 Beton i betonski proizvodi

### Europska normizacija CEN

- CEN/TR 16349:2012  
Framework for a specification on the avoidance of a damaging Alkali-Silica Reaction (ASR) in concrete
- EN 480-8:2012  
Admixtures for concrete, mortar and grout – Test methods – Part 8: Determination of the conventional dry material content

## 91.100.50 Veziva. Materijali za brtvljenje

### Međunarodna normizacija ISO

- ISO 12846:2012  
Water quality – Determination of mercury – Method using atomic absorption spectrometry (AAS) with and without enrichment

### Europska normizacija CEN

- EN 13075-1:2012  
Bitumen and bituminous binders – Determination of breaking behaviour – Part 1: Determination of breaking value of cationic bituminous emulsions, mineral filler method
- EN 14769:2012  
Bitumen and bituminous binders – Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV)
- EN 14770:2012  
Bitumen and bituminous binders – Determination of complex shear modulus and phase angle – Dynamic Shear Rheometer (DSR)
- EN 14771:2012  
Bitumen and bituminous binders – Determination of the flexural creep stiffness – Bending Beam Rheometer (BBR)

## 91.100.60 Materijali za toplinsku i zvučnu izolaciju

### Međunarodna normizacija ISO

- ISO 16534:2012  
Thermal insulating products for building applications – Determination of compressive creep

- ISO 16535:2012  
Thermal insulating products for building applications – Determination of long-term water absorption by immersion

- ISO 16536:2012  
Thermal insulating products for building applications – Determination of long-term water absorption by diffusion

- ISO 16537:2012  
Thermal insulating products for building applications – Determination of shear behaviour

- ISO 16544:2012  
Thermal insulating products for building applications – Conditioning to moisture equilibrium under specified temperature and humidity conditions

- ISO 16545:2012  
Thermal insulating products for building applications – Determination of behaviour under cyclic loading

- ISO 16546:2012  
Thermal insulating products for building applications – Determination of freeze-thaw resistance

## 91.120.10 Toplinska izolacija

### Međunarodna normizacija ISO

- ISO 18292:2011/Cor 1:2012  
Energy performance of fenestration systems for residential buildings – Calculation procedure

### Europska normizacija CEN

- EN 1745:2012  
Masonry and masonry products – Methods for determining thermal properties

## 91.120.20 Akustika u zgradama. Zvučna izolacija

### Međunarodna normizacija ISO

- ISO 17497-2:2012  
Acoustics – Sound-scattering properties of surfaces – Part 2: Measurement of the directional diffusion coefficient in a free field

## 91.140.10 Sustavi centralnoga grijanja

### Europska normizacija CENELEC

- EN 50379-1:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 1: General requirements and test methods

- EN 50379-2:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 2: Performance requirements for apparatus used in statutory inspections and assessment

- EN 50379-3:2012  
Specification for portable electrical apparatus designed to measure combustion flue gas parameters of heating appliances – Part 3: Performance requirements for apparatus used in non-statutory servicing of gas fired heating appliances

## 91.140.30 Sustavi prozračivanja i klimatizacije

### Europska normizacija CEN

- EN 779:2012  
Particulate air filters for general ventilation – Determination of the filtration performance

## 91.140.50 Sustavi opskrbe električnom energijom

### Europska normizacija CEN/CENELEC

- HD 60364-7-709:2009/A1:2012  
Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Marinas and similar locations (IEC 60364-7-709:2007/A1:2012)

## 91.190 Građevni pribor

### Europska normizacija CEN

- EN 13126-13:2012  
Building hardware – Hardware for windows and balcony doors – Requirements and test methods – Part 13: Sash balances
- EN 13126-14:2012  
Building hardware – Hardware for windows and balcony doors – Requirements and test methods – Part 14: Sash fasteners

## 93.080.20 Materijali za gradnju cesta

### Europska normizacija CEN

- EN 12697-24:2012  
Bituminous mixtures – Test methods for hot mix asphalt – Part 24: Resistance to fatigue

## 93.080.30 Cestovna oprema i instalacije

### Europska normizacija CEN

- CEN/TR 1317-6:2012  
Road restraint systems – Part 6: Pedestrian restraint system – Pedestrian parapets

## 93.100 Gradnja željezničkih pruga

### Europska normizacija CEN

- EN 13481-1:2012  
Railway applications – Track – Performance requirements for fastening systems – Part 1: Definitions
- EN 13481-2:2012  
Railway applications – Track – Performance requirements for fastening systems – Part 2: Fastening systems for concrete sleep

- EN 13481-5:2012  
Railway applications – Track – Performance requirements for fastening systems – Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel

- EN 13481-7:2012  
Railway applications – Track – Performance requirements for fastening systems – Part 7: Special fastening systems for switches and crossings and check rails

## 93.140 Gradnja plovnih kanala i luka nasipa

### Europska normizacija CEN/CENELEC

- HD 60364-7-709:2009/A1:2012  
Low-voltage electrical installations – Part 7-709: Requirements for special installations or locations – Marinas and similar locations (IEC 60364-7-709:2007/A1:2012)

## 97.030 Kućanski električni uređaji općenito

### Europska normizacija ETSI

- EN 301 575 V1.1.1:2012  
Environmental Engineering (EE) – Measurement method for energy consumption of Customer Premises Equipment (CPE)

## 97.040.20 Štednjaci, radni stolovi, pećnice i slični uređaji

### Europska normizacija CEN

- EN 30-1-4:2012  
Domestic cooking appliances burning gas – Safety – Part 1-4: Appliances having one or more burners with an automatic burner control system

### CENELEC

- EN 60335-2-15:2002/A11:2012  
Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids
- EN 60335-2-36:2002/A11:2012  
Household and similar electrical appliances – Safety – Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements
- EN 60335-2-37:2002/A11:2012  
Household and similar electrical appliances – Safety – Part 2-37: Particular requirements for commercial electric deep fat fryers
- EN 60335-2-42:2003/A11:2012  
Household and similar electrical appliances – Safety – Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens
- EN 60335-2-47:2003/A11:2012  
Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans
- EN 60335-2-48:2003/A11:2012  
Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters

## 97.040.30 Kućanski rashladni uređaji

### Međunarodna normizacija IEC

- IEC 60335-2-24:2010/am1:2012  
Household and similar electrical appliances – Safety  
– Part 2-24: Particular requirements for refrigerating  
appliances, ice-cream appliances and ice makers
- IEC 60335-2-24 Edition 7.1:2012  
Household and similar electrical appliances – Safety  
– Part 2-24: Particular requirements for refrigerating  
appliances, ice-cream appliances and ice makers

## 97.040.40 Strojevi za pranje posuđa

### Međunarodna normizacija IEC

- IEC 60436 Edition 3.2:2012  
Electric dishwashers for household use – Methods for  
measuring the performance

## 97.040.50 Mali kuhinjski uređaji

### Europska normizacija CENELEC

- EN 60335-2-14:2006/A11:2012  
Household and similar electrical appliances – Safety –  
Part 2-14: Particular requirements for kitchen machines
- EN 60335-2-15:2002/A11:2012  
Household and similar electrical appliances – Safety  
– Part 2-15: Particular requirements for appliances for  
heating liquids
- EN 60335-2-49:2003/A11:2012  
Household and similar electrical appliances – Safety  
– Part 2-49: Particular requirements for commercial  
electric appliances for keeping food and crockery warm

## 97.100.10 Električni grijачi

### Europska normizacija CENELEC

- EN 60335-2-30:2009/A11:2012  
Household and similar electrical appliances – Safety  
– Part 2-30: Particular requirements for room heaters

## 97.140 Namještaj

### Europska normizacija CEN

- EN 15186:2012  
Furniture – Assessment of the surface resistance to  
scratching
- EN 15618:2009+A1:2012  
Rubber- or plastic-coated fabrics – Upholstery fabrics  
– Classification and methods of test

## 97.145 Ljestve

### Europska normizacija CEN

- EN 131-2:2010+A1:2012  
Ladders – Part 2: Requirements, testing, marking

## 97.220.20 Oprema za zimske sportove

### Međunarodna normizacija ISO

- ISO 11088:2006/Amd 1:2012  
Assembly, adjustment and inspection of an alpine ski/  
binding/boot (S-B-B) system

## 97.220.40 Oprema za sportove na otvorenom i sportove na vodi

### Europska normizacija CEN

- EN 1069-1:2010/AC:2012  
Water slides – Part 1: Safety requirements and test  
methods