

Standardization in the field of construction and demolition waste



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Institute for Standardization of Serbia

- General information about ISS
- Standards delivery process
- Technical committee for Waste management
- Existed Serbian standards in the field of construction and demolition waste

General information about ISS

- Law on Standardization completely in line with Regulation 1025/2012 on European standardization
- Internal roles in line with CEN/CENELEC Guide 20:2015, *Guide on membership criteria*
- Submitted the application for full membership of CEN/CENELEC
- ISS is the only recognized national standardization body in the Republic of Serbia, an institution that is a legal entity and operates in accordance with the regulations governing the legal status of the public services
- The founder of the Institute is the Government of Serbia

General information about ISS

- makes, develops, reviews, modifies, amends and withdraws Serbian standards and related documents
- ensures compliance of Serbian standards and related documents with the European and international standards and related documents
- maintains a register of Serbian standards at all stages of development
- participates in the preparation and review of European and international standards
- cooperates with European and international organizations for standardization
- provides public access to the Serbian standards, European and International standards, and sell them

General information about ISS

- provides the basis for the development of the technical regulations
- acts as the information center in accordance with the requirements set out in the relevant international treaties and obligations arising from the membership in the relevant European and international organizations for standardization
- represents the interests of Serbia in the field of standardization in the European and international organizations for standardization, as well as in their bodies
- promotes the implementation of Serbian standards and related documents

Standards delivery process

- Serbian standards can be **pure national standards** or can be **adoptions** of international, European or other regional standards and related documents, as well as national standards and related documents of other countries in accordance with the agreements signed with the national standardization bodies of other countries.
- Pure national standards are developed and published with respect to principles and rules established by international and European organizations for standardization – according **Directive (EU) 2015/1535, Notification procedure**
- The procedure of developing and publishing of Serbian standards is described in Internal Rules of ISS
- Serbian standards are drafted by our technical bodies (around 160 technical committee)
- Each technical committee represents all relevant stakeholder



- waste management procedures including reduction, reuse, recovery (as defined in Directive 2008/98/EC, **1357/2014**), recycling, composting and biodegradation, incineration and final disposal (as defined in Directive 2008/98/EC, **1357/2014**)
- terminology in the field of waste and waste management
- standardization in the field waste management including public cleaning, safety requirements for the collection, transport, storage and transfer of solid and liquid waste
- utilization for energy recovery in waste incineration or co-incineration plants solid recovered fuels, prepared from non-hazardous waste
- sustainability principles, criteria and indicators for biomass for energy applications
- standardization of the materials produced from end-of-life tire treatment
- characterization of solid and liquid waste excluded hazardous waste



Standardization
Basic terminology
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Poll
Do you use standards in your work?
Yes
No
Don't know
Vote Results
Total votes: 101

Z183 Waste management

Standard designation: Z183
Status: Active
Chairman: prof.dr Aleksandar Jovović
Secretary: Mirjana Mirković-Dorđević

Useful links
» TC Work plan Z183
» Show all standards of Z183

Serbian title
Управљање отпадом

English title
Waste management

Scope in Serbian

- Поступци управљања отпадом који обухватају поступке за смањење настајања отпада, поновну употребу, поновно искоришћење (у складу са операцијама поновног искоришћења дефинисаним Директивом 2008/98/ЕС), рециклажу, компостирање и биоразградњу, контролисано спаљивање и коначно одлагање у складу са операцијама одлагања дефинисаним Директивом 2008/98/ЕС. - терминологија у области отпада и управљања отпадом - стандардизација метода управљања отпада које се односе на поступке чишћења јавних површина, безбедносни захтеви за сакупљање, транспорт и складиштење чврстог и течног отпада - поновно искоришћење енергије спаљивањем у инсинераторима или ко-инсинераторима, отпада у облику чврстог горива добијеног из неопасног отпада - стандардизација метода за мерење органских загађивача (чађ) у гасовима добијеним термичким разлагањем биомасе, који се користе за добијање енергије - принципи одржвости, критеријуми и индикатори за биомасу која се користи за енергетске потребе - стандардизација материјала добијених третманом искоришћених пнеуматика

Scope in English

- Waste management procedures including reduction, reuse, recovery (as defined in Directive 2008/98/EC), recycling, composting and biodegradation, incineration and final disposal (as defined in Directive 2008/98/EC) - terminology in the field of waste and waste management - standardization in the field waste management including public cleaning, safety requirements for the collection, transport, storage and transfer of solid and liquid waste - utilization for energy recovery in waste-incineration or co-incineration plant solid recovered fuels prepared from non-hazardous waste - standardization of an existing method for the measurement of organic

- Building lifecycle information EN 15804,
Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- Classification and characterization C&D waste:
SRPS EN 12457 part 1– 4, *Characterization of waste - Leaching - Compliance test for leaching of granular waste materials (pH, conductivity, Cr, Cu, NH₄⁺, SO₄....)*
- Tests for mechanical and physical properties of aggregates **SRPS EN 1097, part 1-10**

- Tests for chemical properties of aggregates SRPS EN 1744 part 1-6
- Tests for general properties of aggregates SRPS EN 932 part 1-6
- Tests for geometrical properties of aggregates SRPS EN 933 part 1-11
- Determination of PAH, SRSP EN 15527, *Characterization of waste - Determination of polycyclic aromatic hydrocarbons (PAH) in waste using gas chromatography mass spectrometry (GC/MS)*
- Examination of stabilized wastes, ONORM S2116

B.1 End-of-waste

EN 15804

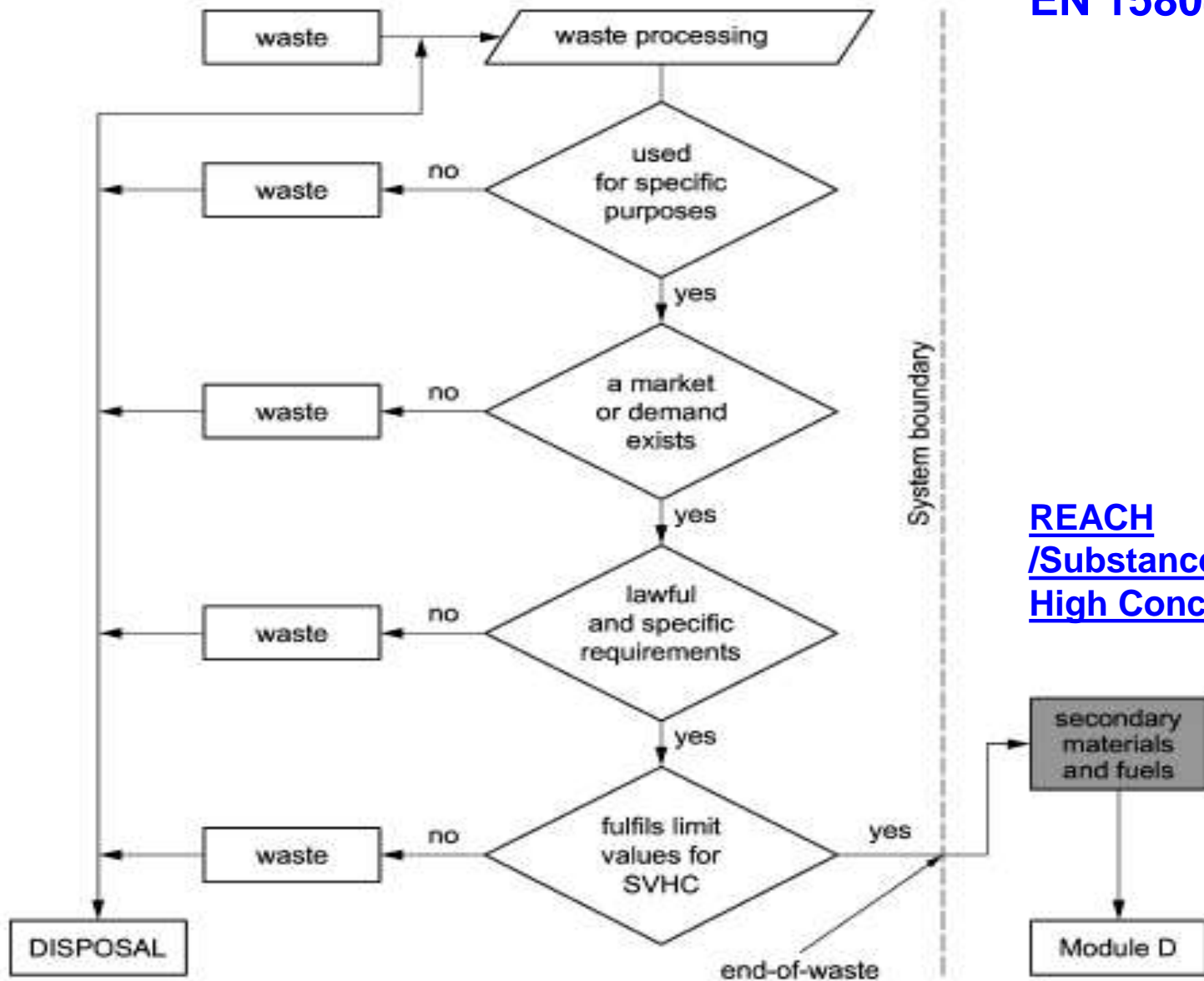


Figure B.1 — Decision-tree for end-of-waste

- Recycled aggregates are included in the standards and new test methods for them are at an advanced stage of preparation
- For unfamiliar materials from secondary sources, however, the work on standardization has only started recently and more time is needed to define clearly the origins and characteristics of these materials
- In the meantime such unfamiliar materials when placed on the market as aggregates must comply fully with those standards and national regulations for dangerous substances (see Annex ZA of the standards) depending upon their intended use- **CE marking and labeling in accordance with CPR (Construction Product Regulation)**

CE

0123

Any Co Ltd, PO Box 21, B-1050

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0123-CPD-0456

EN 13242:2002+A1:2007

Aggregates for hydraulically bound and unbound materials for civil engineering work and road construction

Particle shape	Declared value	(FI)
Particle size	Designation	(d/D) and tolerance category (e.g. G ₀ 80-20)
Particle density	Declared value	(Mg/m ³)
Cleanliness		
Fines content	Category	(e.g. f ₁₆)
Fines quality	Pass/fail threshold value/	(%, MB, SE)
	Declared value	
Percentage of crushed particles	Category	(e.g. C _{90/3})
Resistance to fragmentation/crushing	Category	(e.g. LA ₅₀)
Volume stability	Category	(e.g. V ₅)
Water absorption/suction	Declared value	(mass fraction in %)
Composition/content		
Classification of coarse recycled aggregate	Category	(e.g. Rc ₅₀ , X ₁ , FL ₁₀)
Water soluble sulfates of recycled aggregate	Category	(e.g. SS _{0,7})
Acid soluble sulfates	Category	(e.g. AS _{0,2})
Total sulfur	Category	(e.g. S _{NR})
Constituents which alter the rate of setting and hardening of hydraulically bound mixtures	Pass/fail threshold value	(Stiffening time in min and compressive strength S %)
Resistance to attrition	Category	(e.g. M _{0E25})
Release of heavy metals by leaching	Threshold values valid in the place of use	
Release of other dangerous substances	e.g. Substance X: 0,2 µm ³	
Durability against freeze-thaw	Category	(e.g. F ₄ or MS ₂₅)

CE conformity marking, consisting of the "CE"-symbol given in Directive 93/68/EEC.

Identification number of the inspection body

Name or identifying mark and registered address of the manufacturer

Last two digits of the year in which the marking was affixed

Number of the EC certificate

No. of European Standard

Description of product and

information on product and on regulated characteristics

Figure ZA.1 — Example of CE marking information for aggregates under system 2+

- **Aggregates from recycled materials** - properties for specific application (standards harmonized with CPR):
 - SRPS EN 13043, Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas (Agregati za saobraćajne površine)*
 - SRPSEN 13055, Lightweight aggregates (Laki agregati)*
 - SRPS EN 13242, Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction (Agregati za upotrebu u građevinskim radovima i izgradnji puteva)*



Serbian CYR Serbian LAT



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From Monday – all ISO standards now available from ISS website

27.05.2016

>> more ...



ISS has submitted the application to CEN and CENELEC for full membership status

26.05.2016

>> more ...



All national regulations, EU directives and Serbian standards on ISS website

National regulations referring to Serbian standards will, from now on, be just a few clicks away – on ISS website

24.03.2016

>> more ...

Wherever you look you can find a standard!



Brush your teeth twice a day - that is a sound basis for a healthy dentition. Standards indicate the right toothpaste and define the stiffness of the toothbrush.

SRPS EN 14910:2009

more info >>

DISCUSSION



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