



SLOVENSKI STANDARD SIST-TP CR 1234:2007

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Standardization programme - European Standards in the field of Construction products
as defined by the Directive 89/106/EEC

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ICS:

01.120	Standardizacija. Splošna pravila	Standardization. General rules
91.010.01	Gradbeništvo na splošno	Construction industry in general

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Foreword

This CEN Report was established by Standardization Division 2 "Building" (ST 2) of CEN/CS with the support of the concerned CEN Technical Committees and the guidance of the Mandates Group of BTS1. It was endorsed by BTS1, and approved as CEN Report by BT in its resolution 156/1993 at the October 1993 meeting. The information given in this report is, except for the annexes, also available as a database on informatics support: D-Base (TM) compatible Format (FOXPRO (TM) incl. memo-fields) on two 3,5" HD-DOS-Diskettes.

Scope

This CEN Report is intended to provide a global view of the programme of work of CEN for the production of European Standards that are likely to correspond to the Requirements of one or more of the 33 Mandates issued to CEN in 1992 with the approval of the Standing Committee of the Directive 89/106 and of the Directive 83/189. These 33 Mandates cover the whole area of Building and Civil Engineering. It presents lists of Technical Specifications - European Standards on products as placed on the market and the supporting standards - test or validation methods - that demonstrate the relation between the specification and one or more of the Essential Requirements of the Directive 89/106 as expanded in the Interpretative Documents made available in July 1993.

It does not include the technical specifications of the products that are covered by other "New approach Directives" nor the Low Voltage Directive.

Introduction

In the process of defining the community policy in respect of the implementation of the New Approach Directives, a framework contract has been agreed between CEN, CENELEC and the Commission. This contract provides for the allocation of Mandates that relate to fields for which "harmonized standards" are needed in support of the respective New Approach Directives.

In relation to the Construction Products Directive 89/106 and following an investigation conducted by CEN and the Commission with the support of EFTA, 33 fields that encompass the whole area of construction (building and civil engineering) have been identified. They all relate to products for a given intended use(s).

On that basis, CEN has examined its programme of work in the building and civil engineering sector, and allocated to the individual mandates the work items which deals with products and more specifically have an established relation to one or more Essential Requirements as presented in the Interpretative Documents.

It has been shown that some products have more than one intended use when it comes to multipurpose or raw materials such as aggregates or timber. To overcome this difficulty and as required by the Commission, CEN has identified the various fields of application (mandates) where such products could equally be used.

It has not been possible to identify specific national building regulations that regulates the use of given products. In general, building regulations, like the Directive 89/106 addresses the performances of the works regardless of the products, leaving to the designer/contractors the choice of the materials to meet the requirements. Such national regulations have only an indirect impact on construction products.

By this CEN Report, CEN gives its consolidated reply based on the existing knowledge of the CEN Technical Committees relating to the products for which Technical Specifications are drafted.

For each product, this information covers the field of application, the relation of the identified characteristics to the Essential Requirements of the Directive 89/106 and where relevant to those of other Directives. Are also identified the bodies responsible for the drafting of the Technical Specifications. The details of the expected delivery period are also presented and when european drafts or standards do exist, this is reported.

It is understood that existing ENs will be subject to revision when they have been drafted without being covered by a mandate or before the availability of the Interpretative Documents.

At the beginning of each Mandate an introductory page presents the main features of the products in their intended use and the relation of the corresponding properties to the Essential Requirements as expanded in Annex 1 of the Directive and in the related IDs and their specific clauses.

In the listings additional references to ID clauses are mentioned where needed.

The present document contains information on a total of 1.540 European standardization projects (work items), of which 768 are to be looked at as product standards, and 772 supporting standards.

The numbering of the Mandates as referenced at the bottom of the pages follows what was the initial numbers allocated by CEC DGIII D3 and is not the numbering system used for the contracts which start with 11/33 instead of 1/33.

For the convenience of the user of this CEN Report, the abbreviations and their meaning used in the text are listed hereafter:

ER	Essential Requirement as in Directive 89/106.
ID	Interpretative Document as mentioned in Directive 89/106.
BC/CEN	Order voucher given to CEN, it is followed by the year and chronological numbering.
Work Item 00..	Work item number in the CEN Data Base, it indicates the CEN/TC (5 digits) and the number of the item itself within the CEN/TC programme.
Work Item EC..	Work item number in the CEN Data Base, it indicates work done in an ECISS Technical Committee.
prEN 123	Draft European Standard submitted to the CEN Enquiry or in progress in a CEN/TC after enquiry before submission to formal vote.
ISO/DIS 123	Draft International Standard developed by ISO.

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Mandate O1/33 - Products used for floor beds (including suspended ground floors), roads and other trafficked areas

Floor beds (including suspended ground floors), roads and other trafficked areas have the structural function of loadbearing support and load transmission to the ground. These elements (hereinafter called simply "floor beds") are acting as "floors in direct contact with the ground". In addition, they play a role in the elimination of rainwater and are exposed to exterior weather conditions.

Products to be used in floor beds may have other intended uses (i.e. concrete, steel bars and grids, masonry units, aggregates..) or have a specific intended use (i.e. aggregates for road uses, geotextiles, water drainage pipes, bitumen and hydraulic binders ...).

For exigence of clarity it has therefore been found necessary to group them in several families. Their relation with the Essential Requirements of the Construction Products Directive has been examined as follows:

1) In the Annex 1 of the 89/106 Directive, paragraph 1 - Mechanical resistance and stability - the Essential Requirement is that the construction work must be designed and built in such a way that the loadings that are liable to act on it during its construction end use will not lead to collapse, major deformations etc... Characteristics linking the products to the satisfaction of the ER 1 are listed in the "appendix" of ID1.

2) In the paragraph 3 - Hygiene, health and the environment - the Essential Requirement underlines that the construction work must be designed and built in such a way to avoid inter alia the pollution or poisoning of water or soil, the faulty elimination of waste water, smoke, solid or liquid waste, the presence of damp. Requirements for waste water disposal (i.e. control of water tightness for plastic pipes...), for indoor and outdoor environment (i.e. prevention of leaching , emission and dispersion of pollutants) are reported in the "annex" of ID3.

3) In the paragraph 4 - Safety in use - the Essential Requirement underlines the risks of accidents such as slipping, falling etc. Pedestrian and trafficked areas imply adequate safety requirements as limited slipperiness of the surfaces, evenness, water drainage and texture as indicated in ID4 Risk 1 (falling after slipping/stumbling) and ID4 Risk 6 (accidents by moving vehicles): paving units, bituminous mixtures surfaces and concrete surfaces must ensure that these performance requirements are satisfied.

4) In the paragraph 6 - Energy economy and heat retention - the Essential Requirement underlines the need to keep the amount of energy very low. ID6 defines "fabric materials" and "fabric components" in paragraph 2.2.1 and 2.2.3: this applies to some (specific) thermal insulation materials and products included in floor beds as far as an excessive thermal gradient (due to excessive climate conditions) could lead to hinder their function (especially suspended floors).

The proposed European Standards relevant to this intended use are dealing with products specifications, tests and validation methods and are duly taking into account the properties linked to the statements of the IDs.

Aggregates

The responsible body for the ENs on aggregates is CEN/TC 154.

- * Aggregates for mortars

This product standard is known as CEN Work Item 00154002

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 95-02-01 This project has been supported under the order voucher BC/CEN/87/12.34

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER 1 (mechanical resistance and stability):

size distribution, particle shape, fines and mineral content, physical and mechanical properties of artificial aggregates.

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* Lightweight aggregates

This product standard is known as CEN Work Item 00154003

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 94-12-01 This project has been supported under the order voucher BC/CEN/87/11.28

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER 1 (mechanical resistance and stability): size distribution, particle shape, fines and mineral content, physical and mechanical properties, special properties of artificial aggregates. Furthermore loose bulk density is relevant to ER 6 (energy economy and heat retention).

* Aggregates for bituminous mixtures and chippings for roads and other paved areas

This product standard is known as CEN Work Item 00154050

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 95-01-01

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER 1 (mechanical resistance and stability): size distribution, particle shape, fines and mineral content, physical and mechanical properties, special properties of artificial aggregates. Furthermore polishing is relevant to ER 4. Safety in use as it relates to skiddings risks.

* Hydraulic bound and unbound aggregates for Civil Engineering work and road construction

This product standard is known as CEN Work Item 00154051

The work is currently being examined by the CEN/TC, and it was expected to be under the enquiry procedure approximately by 93-04-01

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER1 (Mechanical resistance and stability): size distribution, particle shape, fines and mineral content, physical and mechanical properties, special properties of artificial aggregates.

* Aggregates for railway track ballast

This product standard is known as CEN Work Item 00154053

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 94-07-01

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER1 (Mechanical resistance and stability): size distribution, particle shape, fines and mineral content, physical and mechanical properties, special properties of artificial aggregates.

* Aggregates for concrete including those for use in roads and other pavements

This product standard is known as CEN Work Item 00154057

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 94-12-01 This project has been supported under the order voucher BC/CEN/87/11.27

The scope of this standard is the following:

Product specifications relevant to the following characteristics related to ER1 (Mechanical resistance and stability): size distribution, particle shape, fines and mineral content, physical and mechanical properties, special properties of artificial aggregates.

Cement and related Products

The responsible body for ENs on cement is CEN/TC 51.

* Hydraulic binders for road bases - Specifications

This product standard is known as CEN Work Item 00051041

The work is currently in a first programming phase, and it is expected to be continuing with this

* Hydraulic binders for road bases - Test methods

This supporting standard is known as CEN Work Item 00051042

The work is currently in a first programming phase, and it is expected to be continuing with this

* Hydraulic binders for road bases - Assessment of conformity

This product standard is known as CEN Work Item 00051043

The work is currently in a first programming phase, and it is expected to be continuing with this

Fire Safety - Testing, Measurement and Calculation

The European Standards on fire safety are generally developed by CEN/TC 127 on the basis of ID 2.

* Fire resistance - Service installations - Part 6: Raised floors

This supporting standard is known as CEN Work Item 00127055

The work is currently in a first programming phase, and it is expected to be examined by the CEN/TC approximately by 94-12-01

Geotextiles and related Products

The products identified in this group are used as horizontal layers for stabilizing the soil and controlling the drainage. Typical applications are all kinds of civil engineering works where high loads are to be transmitted to the ground. They in so far contribute to the structure of the works and are therefore included in paragraph 5 of the annexe to ID 1. The relevant standardization body within CEN is known as CEN/TC 189.

* Geotextiles - Identification on site (ISO 10320:1991)

This supporting standard is known as CEN Work Item 00189003 or

The work is currently published and available, and it was expected to be implemented by all CEN approximately by 93-10-01

The scope of this standard is the following:

The standard specifies the identification process for geotextiles and geotextile-related products

* Geotextiles and geotextile-related products - Determination of thickness at specified pressures

This supporting standard is known as CEN Work Item 00189005 or

The work is currently finalizing the CEN enquiry, and it is expected to be undergoing the formal vote approximately by 93-12-01

The scope of this standard is the following:

This European standard specifies a method for determination of the thickness of geotextiles and geotextile-related products at specified pressures and defines at which pressure the nominal thickness is determined. Test results are intended for identification purposes and for use in technical data sheets and/or as part of other test methods, e.g. tests of hydraulic properties. The method is applicable to all geotextiles and geotextile related products.

* Geotextiles and geotextile-related products - Determination of mass per unit area

This supporting standard is known as CEN Work Item 00189006 or

The work is currently finalizing the CEN enquiry, and it is expected to be undergoing the formal vote approximately by 93-12-01

The scope of this standard is the following:

This European standard specifies a method for determination of mass per unit area of geotextiles and geotextile-related products for identification and in technical data sheets. The method is applicable to all geotextiles and geotextile-related products.

* Static puncture test for geotextiles and geotextile-related products (CBR-Test)

This supporting standard is known as CEN Work Item 00189012 or

The work is currently finalizing the CEN enquiry, and it is expected to be undergoing the formal vote approximately by 93-12-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

This standard describes a method for the determination of the puncture resistance by measuring the force required to

push a flat ended plunger through geotextiles. The test is applicable to most types of geotextiles, but not to materials with apertures greater than 10 mm.

* Geotextiles and geotextile-related products - Determination of tensile creep behaviour

This supporting standard is known as CEN Work Item 00189017

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

The standard specifies a method for determining the tensile creep behaviour of geotextiles and geotextile-related products, by means of constant load tensile tests. The method specifies the different loads and temperatures to be used and the minimum duration of tests

* Geotextiles and geotextile-related products - Determination of compressive creep behaviour

This supporting standard is known as CEN Work Item 00189018

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01 This project has been supported under the order voucher BC/CEN/92/11.4

This project has been part of a first selection in 1992

The scope of this standard is the following:

This standard specifies a method for determining the behaviour of geotextiles and geotextile-related products under a constant compressive load by measuring the rate of change of thickness. The method specifies the different pressures and temperatures to be used and the minimum duration of tests

* Dynamic perforation test for geotextiles and geotextile-related products (cone drop test)

This supporting standard is known as CEN Work Item 00189019 or

The work is currently finalizing the CEN enquiry, and it is expected to be undergoing the formal vote approximately by 93-12-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

This standard describes a method for determining the resistance of a geotextile to the penetration by a steel cone dropped from a fixed height. The degree of penetration is an indication of the damage likely to be caused by dropping sharp stones onto the geotextile surface. The method is generally applicable to geotextiles. The validity of this test for some types of geotextile and geotextile-related products (eg geogrids) needs to be considered carefully, as the principle of the test may not be appropriate for these materials.

* Geotextiles and geotextile-related products - Tensile test for geotextiles and geotextile-related products

This supporting standard is known as CEN Work Item 00189020

The work is currently being examined by the CEN/TC, and it was expected to be under the enquiry procedure approximately by 93-04-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

This standard describes an index test method for the determination of the tensile properties (tensile strength, strain at failure, secant stiffness) of geotextiles and geotextile-related products, by using a wide width strip

* Geotextiles and geotextile-related products - Determination of water permeability normal to their plane without load

This supporting standard is known as CEN Work Item 00189022 or

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01 This project has been supported under the order voucher BC/CEN/92/11.5

This project has been part of a first selection in 1992

The scope of this standard is the following:

Determination of the hydraulic permeability of a geotextile or a geotextile-related product by a water flow normal to the plane of the specimen without load. For open products such as geogrid and geonets, the test is not automatically applicable.

* Geotextiles and geotextile-related products - Determination of the characteristic opening size

This supporting standard is known as CEN Work Item 00189023

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 94-07-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

Determination of the characteristic pore size of a geotextile or a geotextile-related product. Determination of the characteristic diameter of the coarsest particules able to go through the specimen. The test is applicable to all geotextiles and geotextile-related products.

* Geotextiles and geotextile-related products - Determination of water flow capacity in their plane

This supporting standard is known as CEN Work Item 00189024

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01 This project has been supported under the order voucher BC/CEN/92/11.7

This project has been part of a first selection in 1992

The scope of this standard is the following:

Determination of the water flow capacity of a geotextile or a geotextile-related product in the plane of the specimen under specified normal loading conditions. The test is applicable to all geotextiles and geotextile-related products which have a drainage function.

* Geotextiles and geotextile-related products - Resistance of geotextiles to thermal oxidation

This supporting standard is known as CEN Work Item 00189027

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01

The scope of this standard is the following:

To define an index test to establish the resistance of geotextiles and geotextile-related products to ageing in wet and dry air in order to provide an initial and comparative estimation of their susceptibility to thermal oxidation

* Geotextiles and geotextile-related products - Resistance of geotextiles to chemical degradation

This supporting standard is known as CEN Work Item 00189029

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

To define an index test to establish the resistance of geotextiles and geotextile-related products to certain chemicals in order to provide an initial and comparative estimation of the long-term durability to chemicals. The group will consider a draft method under development in ISO/TC38/SC21/WG5

* Geotextiles and geotextile-related products - Resistance of geotextiles to microbiological degradation

This supporting standard is known as CEN Work Item 00189030

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01

This project has been part of a first selection in 1992

The scope of this standard is the following:

To define an index test to establish the resistance of geotextiles and geotextile-related products to microbiological degradation in order to provide an initial and comparative estimation of their long-term durability. The group will consider a draft method under development in ISO/TC38/SC21/WG5

* Geotextiles and geotextile-related products - Resistance of geotextiles to humidity (hydrolysis)

This supporting standard is known as CEN Work Item 00189031

The work is currently being examined by the CEN/TC, and it is expected to be under the enquiry procedure approximately by 93-12-01

The scope of this standard is the following:

To define an index test to establish the resistance of geotextiles and geotextile-related products to ageing in a humid environment in order to provide an initial and comparative estimation of their long-term durability, with particular