

SLOVENSKI STANDARD

SIST EN 13375:2005

01-februar-2005

Hidroizolacijski trakovi - Hidroizolacija betonskih premostitvenih objektov in drugih betonskih povoznih površin - Priprava preskušancev

Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Specimen preparation

Abdichtungsbahnen - Abdichtungssysteme auf Beton für Brücken und andere Verkehrsflächen - Regeln für Probenentnahme und Vorbereitung von Prüfkörpern

Feuilles souples d'étanchéité - Étanchéité des ponts en béton et autres surfaces en béton circulaire par les véhicules - Préparation des éprouvettes

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Ta slovenski standard je istoveten z: EN 13375:2004

ICS:

91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials
93.080.20	Materiali za gradnjo cest	Road construction materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13375

September 2004

ICS 91.100.50

English version

**Flexible sheets for waterproofing - Waterproofing of concrete
bridge decks and other concrete surfaces trafficable by vehicles
- Specimen preparation**

Feuilles souples d'étanchéité - Etanchéité des ponts en
béton et autres surfaces en béton circulaire par les
véhicules - Préparation des éprouvettes

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Brücken und andere Verkehrsflächen - Regeln für
Probenentnahme und Vorbereitung von Prüfkörpern

This European Standard was approved by CEN on 22 July 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Contents

	Page
Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Specimens	6
5 Base specimens.....	7
5.1 General.....	7
5.2 Specification of the concrete.....	8
5.3 Surface roughness	8
6 Application of the waterproofing system.....	8
7 Asphalt layer	9
7.1 Specifications.....	9
7.2 Laying and compaction.....	10
7.3 Specimens type 2.....	10
8 Preparation of test specimens	11
9 Storing	11
10 Test report	11
Bibliography	12

Foreword

This document (EN 13375:2004) has been prepared by Technical Committee CEN /TC 254, "Flexible sheets for waterproofing" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2005, and conflicting national standards shall be withdrawn at the latest by June 2006.

This document includes a bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

The purpose of this standard is to give rules for the preparation of specimens for performance related tests on waterproofing systems. The standard includes also specifications for the base specimen concrete and for the bituminous mixes for the asphalt layer in contact with the waterproofing sheet and used for the test.

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1 Scope

This European Standard is one of a series of standards applicable to flexible sheets for waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles.

This document specifies:

- the composition, the characteristics and the preparation procedure of the base specimen concrete slabs;
- the composition, the characteristics and the preparation procedure of different bituminous mixtures for the asphalt layer;
- the rules for the preparation of specimens.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1766:2000, *Products and systems for the protection and repair of concrete structures – Test methods – Reference concretes for testing*

EN 12591, *Bitumen and bituminous binders – Specifications for paving grade bitumens*

EN 13596, *Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of bond strength*

EN 13653, *Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of shear strength*

prEN 14224, *Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of crack bridging ability*

prEN 14692, *Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of the resistance to compaction of an asphalt layer*

prEN 14693, *Flexible sheets for waterproofing – Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Determination of the behaviour of polymer bitumen sheets during application of mastic asphalt*

prEN 14695:2003, *Flexible sheets for waterproofing – Reinforced bitumen sheets for waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles – Definitions and characteristics*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 14695:2003 and the following apply.

3.1

sample

roll of a flexible sheet from which a test piece is taken

3.2

test piece

part of the sample

EN 13375:2004 (E)**3.3****base specimen**

prepared concrete slab

3.4**asphalt layer**

layer of a bituminous mixture according to Clause 7 which is used to carry out the tests according to Clause 4.3 of prEN 14695:2003

3.5**specimen**

- Type 1: base specimen with primer if any, and the applied waterproofing sheet;
- Type 2: flexible sheet applied with the asphalt layer;
- Type 3: base specimen with applied waterproofing system and applied asphalt layer

3.6**test specimen**

piece with certain dimensions taken from the specimens

4 Specimens

Specimens for the different performance related tests are defined in the relevant standards dealing with the testing of flexible sheets.

If a waterproofing system defined by the producer does not include an asphalt layer as protection layer, an asphalt layer according to Clause 7 shall be laid onto the waterproofing system, Figure 1.a.

If a layer of e.g. coarse aggregate mastic asphalt is used as protection layer in the waterproofing system, Figure 1.b, no asphalt layer shall be put onto the waterproofing system to fabricate the specimens.

The preparation of specimens for the tests listed in Table 1 is the subject of this document.

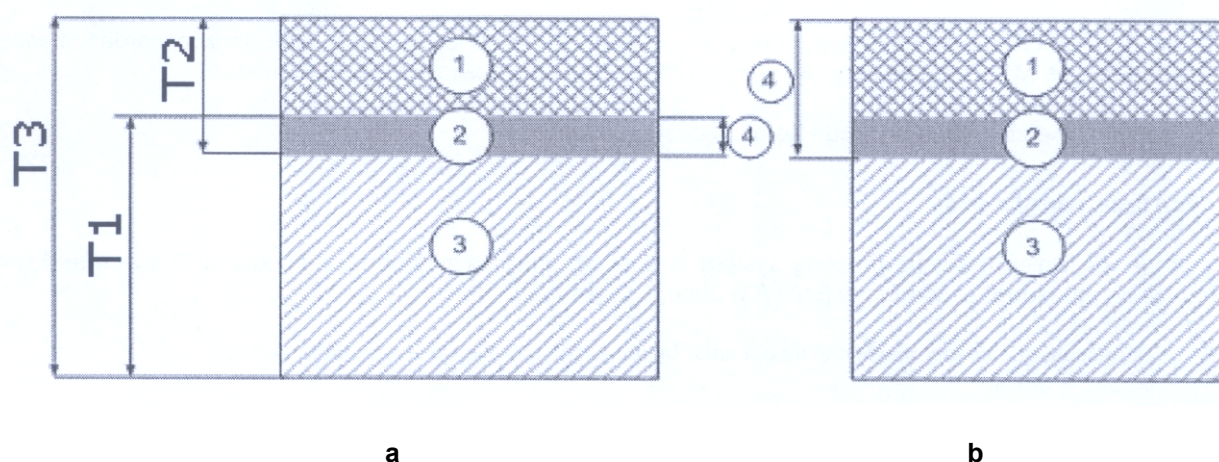


Figure 1 a: The waterproofing system does not include an asphalt layer as protection layer

Figure 1 b: The waterproofing system includes an asphalt layer as protection layer

Key

- 1 asphalt layer
- 2 waterproofing sheet(s)
- 3 base specimen
- 4 waterproofing system
- T1 type 1
- T2 type 2
- T3 type 3

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Figure 1 — Cross sections through specimens

Table 1 — Test methods and specimens	
Test method	Type of specimen according to 3.5
determination of bond strength (EN 13596)	type 1, type 2, type 3
determination of shear strength (EN 13653)	type 3
determination of crack bridging ability (prEN 14224)	type 1
determination of the resistance to compaction of an asphalt layer (prEN 14692)	type 3
determination of the behaviour of polymer bitumen sheets during application of mastic asphalt (prEN 14693)	type 1

5 Base specimens

5.1 General

Concrete base specimen slabs shall be of uniform quality for all tests. The slab thickness shall not be less than 40 mm. The area of the base specimens shall be chosen in such a way that the required test specimens can be obtained from the specimens by a suitable method, see Clause 8.