

SLOVENSKI STANDARD

SIST EN 13111:2010

01-oktober-2010

Nadomešča:
SIST EN 13111:2001

Hidroizolacijski trakovi - Podložne folije za strehe in stene - Določevanje odpornosti proti penetraciji vode

Flexible sheets for waterproofing - Underlays for discontinuous roofing and walls -
Determination of resistance to water penetration

Abdichtungsbahnen - Unterdeck- und Unterspannbahnen für Dachdeckungen und
Wände - Bestimmung des Widerstandes gegen Wasserdurchgang

Feuilles souples d'étanchéité - Ecrans de sous-toiture et pare-pluie pour murs -
Détermination de la résistance à la pénétration de l'eau

Ta slovenski standard je istoveten z: EN 13111:2010

ICS:

91.060.10	Stene. Predelne stene. Fasade	Walls. Partitions. Facades
91.060.20	Strehe	Roofs
91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials

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EUROPEAN STANDARD

EN 13111

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2010

ICS 91.100.50

Supersedes EN 13111:2001

English Version

Flexible sheets for waterproofing - Underlays for discontinuous roofing and walls - Determination of resistance to water penetration

Feuilles souples d'étanchéité - Ecrans de sous-toiture et pare-pluie pour murs - Détermination de la résistance à la pénétration de l'eau

Abdichtungsbahnen - Unterdeck- und Unterspannbahnen für Dachdeckungen und Wände - Bestimmung des Widerstandes gegen Wasserdurchgang

This European Standard was approved by CEN on 23 April 2010.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 13111:2010) 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 November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13111:2001.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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

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Introduction

This European Standard is one of a series of standards which specify test methods for the characterization and/or classification of industrially manufactured underlays. The methods of test relate to products exclusively.

This document applies in conjunction with European Standards specifying definitions and characteristics on underlays for discontinuous roofing and walls.

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1 Scope

This European Standard specifies a method to test the resistance against water penetration of underlays for discontinuous roofing and for walls.

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 13416, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Rules for sampling*

3 Terms and definitions

For the purposes of this document, the terms and definitions indicated in the corresponding European Standards specifying definitions and characteristics on underlays for discontinuous roofing and walls apply.

4 Principle

Test specimens of the sheet are subjected to a waterhead and the volume of penetrating water is measured.

A conditioned test specimen is positioned as a water-carrying layer into a device with flange and defined basic surface.

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Water occasionally penetrating the test specimen will be collected in a basin positioned under the testing apparatus and volumetrically measured at the end of the test.

5 Apparatus

The apparatus is shown in Figure 1 and Table 1.

The test container can have two different inside dimensions with the same test area of 0,045 m²:

- a) $(300 \pm 1) \text{ mm} \times (150 \pm 1) \text{ mm}$; or
- b) $(250 \pm 1) \text{ mm} \times (180 \pm 1) \text{ mm}$.

It is equipped with a flange and a counter frame incorporating a suitable seal.

At the inside of the container, an inclined plane of $(45 \pm 2)^\circ$ towards the longitudinal side of the basin is positioned to achieve a defined filling process of the required water quantity. The inclined plane is only attached at the latitudinal sides of 150 mm or 180 mm for containers a) and b) respectively and therefore forms a slot of $(0,5_{-0,1}^{+0}) \text{ mm}$ towards the longitudinal side.

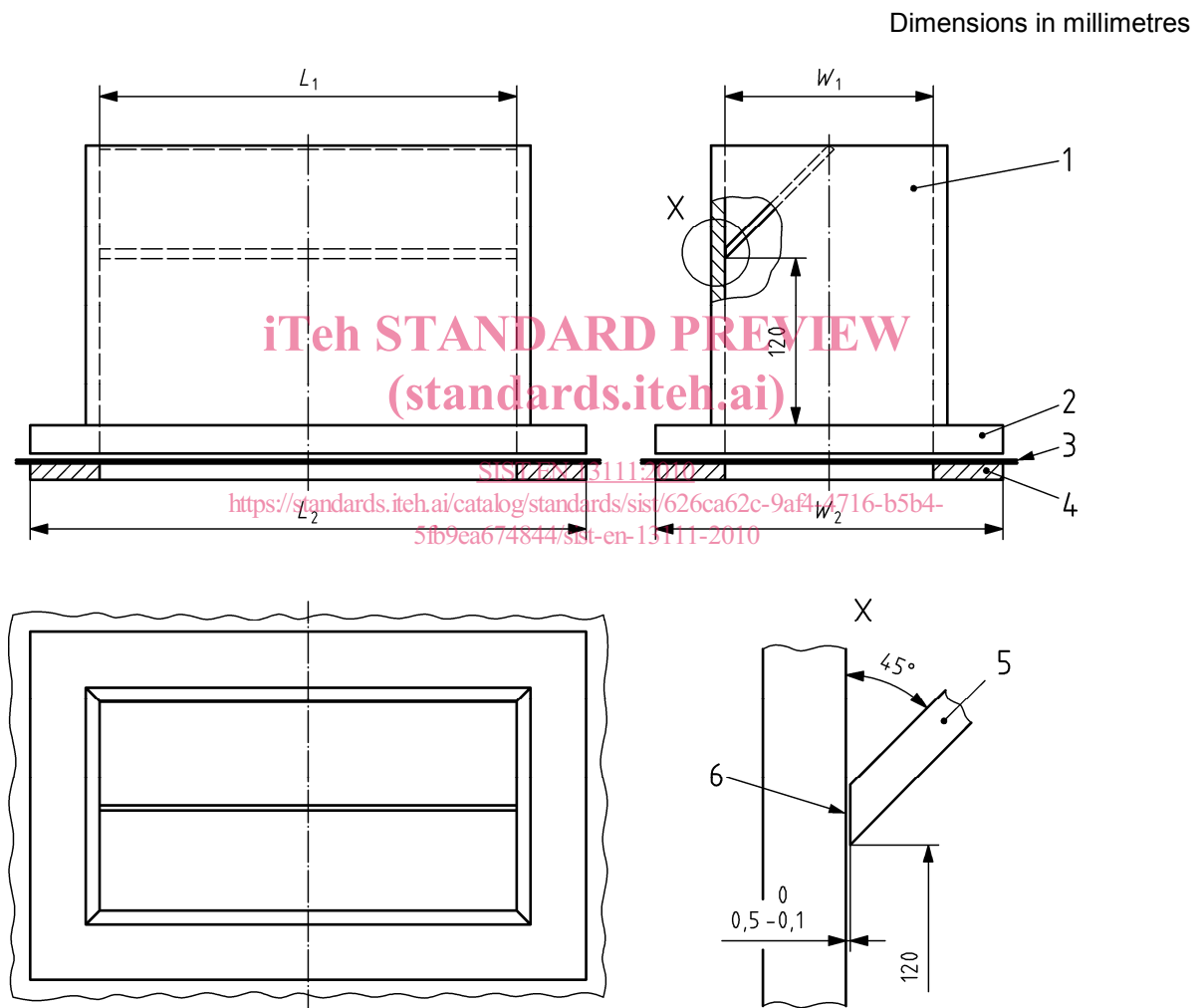
6 Sampling and preparation of test specimens

6.1 Sampling

Test samples shall be taken in accordance with EN 13416. Samples with extraordinary defects shall not be used for testing.

6.2 Preparation of test specimens

Three test specimens with dimension of at least 350 mm × 200 mm or 300 mm × 230 mm for containers a) and b) respectively (see Clause 5) shall be cut from the test sample. The test specimens shall be cut evenly spread across the whole width of the sheet. The prepared test specimens shall be conditioned for 24 h at (23 ± 2) °C before testing.



Key

- 1 Container
- 2 Flange
- 3 Test specimen
- 4 Counter frame
- 5 Inclined plane
- 6 Slot

L_1 , L_2 , W_1 , W_2 See Table 1

Figure 1 — Testing device