SLOVENSKI STANDARD
SIST EN 13111:2001

01-december-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 - Écrans de sous-toiture et pare-pluie pour murs - Détermination de la résistance a la pénétration de l'eau

Ta slovenski standard je istoveten z: **EN 13111:2001**

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

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13111

March 2001

ICS 91.100.50

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 4 February 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard 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 September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.

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

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

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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

prEN 13416:2000
Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Rules for sampling

3 Terms and definitions

For the purpose of this European Standard, the 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.

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.

The test container with inside dimensions of (300 ± 1) mm × (150 ± 1) mm is equipped with a flange and a counter frame incorporating a suitable seal. At the inside of the container, an inclined plane of (45 ± 2) degrees 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 and therefore forms a slot of $(0{,}5^{+\,0}_{-\,0{,}1})$ mm towards the longitudinal side.

6 Sampling and preparation of test specimens

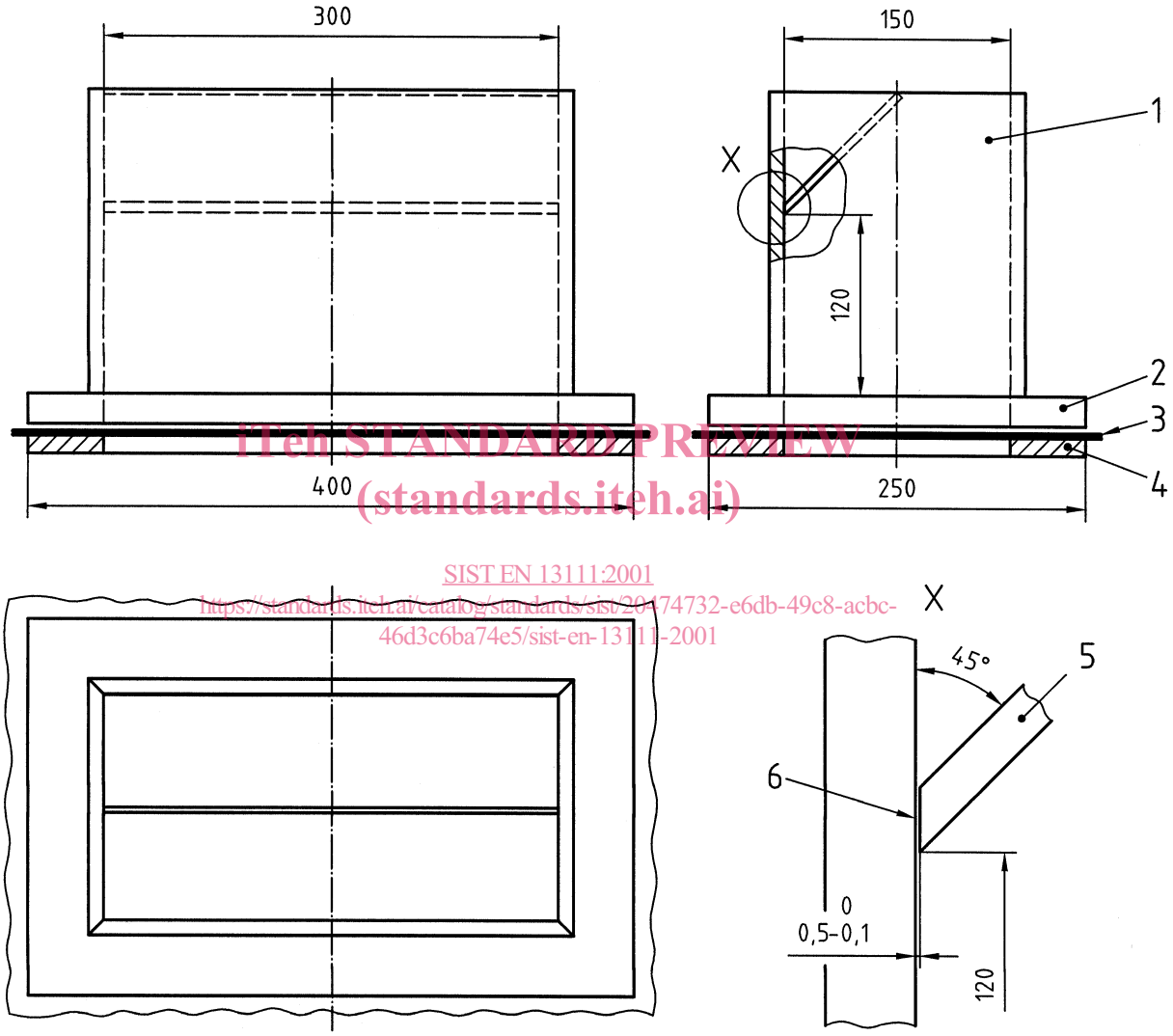
6.1 Sampling

Test samples shall be taken in accordance with prEN 13416:2000. Samples with extraordinary defects shall not be used for testing.

6.2 Preparation of test specimens

Three test specimens with the dimension of at least 350 mm × 200 mm shall be cut from the test sample. The test specimens shall be cut evenly spread over the whole width of the sheet. The prepared test specimen shall be continioned for 24 h at (23 ± 2) °C before testing.

Dimensions in millimetres



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

Figure 1 - Testing device

7 Procedure

The test shall be conducted at (23 ± 2) °C. The test specimen shall be positioned in the testing device according to figure 1 between flange and counter frame. The container resulting with inside dimensions according to clause 5, shall be positioned horizontally into a basin to collect the water which is capable to penetrate through the test specimen. (2,25 ± 0,02) l of demineralized water with (23 ± 2) °C shall be poured within 1 min down the inclined plane into the apparatus. The time of examination is 3 h ± 5 min after filling.

It is necessary to protect the test equipment from any vibrations during the whole testing time.

Completing the test, the basin under the test container shall be separated and the volume of penetrated water shall be measured by a graduated cylinder or determined by weighing.

8 Evaluation of results

The volume of the penetrated water of each test specimen shall be indicated with an accuracy of 2 ml and rounded to nearest 1 ml.

The repeatability and the reproducibility are not specified by this standard.

9 Test Report

The test report shall contain at least the following information:

a) all details necessary to identify the product tested, including type, source, manufacturers code number, product description, and any other relevant observation;

b) a reference to this European Standard (EN 13111) and any deviation from it;

c) information about the test procedure in accordance with clause 7;

d) the individual test results in accordance with clause 8;

e) the date of the test.