

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13111:2010 sisaldab Euroopa standardi EN 13111:2010 ingliskeelset teksti.

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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.

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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of an identical text or by endorsement, at the latest by November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

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This document supersedes EN 13111:2001.

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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.

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.

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 $(0,5^{+0}_{-0,1}) \text{ mm}$ towards the longitudinal side.