

Flexible sheets of waterproofing - Determination of shear resistance of joints - Part 2: Plastic and rubber sheets for roof waterproofing

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 12317-2:2010 sisaldab Euroopa standardi EN 12317-2:2010 ingliskeelset teksti.

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English Version

**Flexible sheets for waterproofing - Determination of shear
resistance of joints - Part 2: Plastic and rubber sheets for roof
waterproofing**

Feuilles souples d'étanchéité - Détermination de la
résistance au cisaillement des joints - Partie 2: Feuilles
d'étanchéité de toiture plastiques et élastomères

Abdichtungsbahnen - Bestimmung des Scherwiderstandes
der Fugenähte - Teil 2: Kunststoff- und Elastomerbahnen
für Dachabdichtungen

This European Standard was approved by CEN on 29 May 2010.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 12317-2:2010) 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of an identical text or by endorsement, at the latest by January 2011, and conflicting national standards shall be withdrawn at the latest by January 2011.

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 12317-2:2000.

This European Standard "*Flexible sheets for waterproofing - Determination of shear resistance of joints*" consists of two parts:

- *Part 1: Bitumen sheets for roof waterproofing;*
- *Part 2: Plastic and rubber sheets for waterproofing.*

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 United Kingdom.

Introduction

This European Standard is intended for characterisation of plastic and rubber sheets as manufactured or supplied before use. This test method relates to products or to their components where appropriate, and not to waterproofing membrane systems composed of such products and installed in the works.

This test is intended to be used in conjunction with EN 13956, *Flexible sheet for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*.

1 Scope

This European Standard specifies a method for determining the resistance to shearing of joints between two adjacent sheets of the same plastic or rubber sheets for roof waterproofing.

NOTE The shearing characteristics of a joint between two widths of plastic or rubber sheets vary considerably depending on the material, method of jointing, the size of the overlap and the workmanship.

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*

EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

3 Terms and definitions

For the purposes of this document, the following term and definition apply.

3.1

shear resistance

maximum tensile force required to extend a prepared joint test specimen, in shear, until it breaks or separates

4 Principle

The principle of the test is to pull a specimen of a joint in shear at a constant speed until it breaks or separates. The tensile force is continuously recorded throughout the test.

5 Apparatus

Tensile testing machine equipped with a continuous recording of force and corresponding extension and capable of maintaining a uniform speed of grip separation as specified below.

The tensile testing machine shall have a sufficient loading capacity in excess of 2000 N and a grip separation speed of (100 ± 10) mm/min. The width of grips shall not be less than 50 mm.

The tensile testing machine shall be equipped with grips of a type, which maintain or increase the clamping pressure as a function of the increase of the force applied to the test specimen. The test specimen shall be held so that it does not slip in the grips more than 2 mm.

The method of gripping shall not induce premature rupture close to the grips.

The force measuring system shall meet at least Class 2 of EN ISO 7500-1 (i.e. $\pm 2\%$).