

**Polymer modified bituminous thick coatings for
waterproofing - Determination of flexibility at low
temperatures**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15813:2011 sisaldab Euroopa standardi EN 15813:2011 ingliskeelset teksti.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

Polymer modified bituminous thick coatings for waterproofing - Determination of flexibility at low temperatures

Revêtements bitumineux épais modifiés aux polymères
pour imperméabilisation - Détermination de la souplesse à
basse température

Kunststoffmodifizierte Bitumendickbeschichtungen zur
Bauwerksabdichtung - Bestimmung der Flexibilität bei
niedrigen Temperaturen

This European Standard was approved by CEN on 13 February 2011.

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Foreword

This document (EN 15813:2011) has been prepared by Technical Committee CEN/TC 361 "Project Committee — Polymer modified bituminous thick coatings for waterproofing — Definitions/ requirements and test methods", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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1 Scope

This European Standard specifies a procedure for determining the flexibility of polymer modified bituminous thick coatings for waterproofing at low temperature.

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.

FprEN 15814:2011, *Polymer modified bituminous thick coatings for waterproofing — Definitions and requirements*

EN ISO 1519, *Paints and varnishes — Bend test (cylindrical mandrel) (ISO 1519:2002)*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

3 Term and definition

For the purposes of this document, the terms and definitions given in FprEN 15814:2011 and the following apply.

3.1

cold resistance

property of a bitumen sheet to resist cracking during bending tests at low temperatures

4 Principle

After preparing flexible sheets of the polymer-modified bitumen emulsion, the specimens are placed in a refrigerated box at a defined low temperature for a period of at least $1\text{ h} \pm 10\text{ min}$.

After that time the specimens are bent around the bending steel.

5 Apparatus

5.1 Refrigerated box, the temperature of which can be regulated between $(-10 \pm 1)^\circ\text{C}$ and $(+10 \pm 1)^\circ\text{C}$ (minimum range).

5.2 Mandrel according to EN ISO 1519 of wood or steel with a diameter of 30 mm (see Figure 1).

5.3 Foil (e.g. polyethylene) as a substrate for the application.

5.4 Frame or gauge.