

Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of hail resistance

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Flexible sheets for waterproofing - Bitumen, plastic and rubber
sheets for roof waterproofing - Determination of hail resistance

Feuilles souples d'étanchéité - Feuilles bitumineuses,
plastiques et élastomériques d'étanchéité de toiture -
Détermination de la résistance à l'impact de la grêle

Abdichtungsbahnen - Bitumen-, Kunststoff- und
Elastomerbahnen für Dachabdichtungen - Bestimmung des
Widerstandes gegen Hagelschlag

This European Standard was approved by CEN on 7 April 2012.

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Contents

Page

| | |
|---|-----------|
| Foreword | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Terms and definitions | 4 |
| 4 Principle | 5 |
| 5 Apparatus | 5 |
| 6 Sampling and preparation of test specimens | 6 |
| 7 Calibration | 6 |
| 8 Procedure | 6 |
| 9 Expression of results | 8 |
| 10 Test report | 9 |
| Bibliography | 10 |

Foreword

This document (EN 13583:2012) has been prepared by Technical Committee CEN/TC 254 "Flexible sheets for waterproofing", the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

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 13583:2001.

The following is a list of significant technical changes since the last edition:

- definition of EPS board as soft support;
- definition of sandpaper for use on hard support;
- new definition of v_d damaging velocity;
- indications regarding calibration.

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 organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the determination of the resistance of flexible sheets for roofing to hail using a test for puncture by simulated hail.

This European Standard may also be applied for waterproofing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 826, *Thermal insulating products for building applications — Determination of compression behaviour*

EN 1849-1, *Flexible sheets for waterproofing — Determination of thickness and mass per unit area — Part 1: Bitumen sheets for roof waterproofing*

EN 1849-2, *Flexible sheets for waterproofing — Determination of thickness and mass per unit area — Part 2: Plastic and rubber sheets*

prEN 10025-2:2011, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*¹⁾

EN 13163, *Thermal insulation products for buildings — Factory made products of expanded polystyrene (EPS) — Specification*

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

EN 13956:2005, *Flexible sheet for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*

ISO 6344-1:1998, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13956:2005 and the following apply.

NOTE EN 13956:2005 gives the definitions for “sampling”, “sample”, “test piece”, “test specimen”.

3.1

surface

upper side of the sheet, as used in situ; it is usually the inside of the roll

3.2

damaging velocity

v_d
determined velocity of the ball rounded to the next integer in m/s, which has caused perforation in maximum 1 out of 5 shots

1) Under preparation