

# SVENSK STANDARD

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### **Flexibla tätskikt – Definitioner och karaktäriserande egenskaper – Del 2: Vindskydd för väggar**

### **Flexible sheets for waterproofing – Definitions and characteristics of underlays – Part 2: Underlays for walls**

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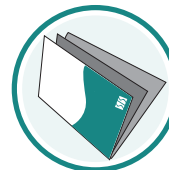
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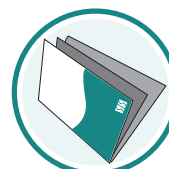
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This standard supersedes the Swedish Standard SS-EN 13859-2:2004+A1:2008, edition 1.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 13859-2**

June 2010

ICS 91.100.50

Supersedes EN 13859-2:2004+A1:2008

English Version

## Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 2: Underlays for walls

Feuilles souples d'étanchéité - Définitions et  
caractéristiques des écrans souples - Partie 2: Ecrans  
souples pour murs et cloisons extérieures

Abdichtungsbahnen - Definitionen und Eigenschaften von  
Unterdeck- und Unterspannbahnen - Teil 2: Unterdeck- und  
Unterspannbahnen für Wände

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## Foreword

This document (EN 13859-2:2010) 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of an identical text or by endorsement, at the latest by December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.

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 13859-2:2004+A1:2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

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 the United Kingdom.



## 1 Scope

This European standard specifies the characteristics of flexible sheets for underlays for walls which are to be used in walls behind outside wall coverings in order to avoid penetration of wind and water from outside. It specifies the requirements and test methods and provides for the evaluation of conformity of the products with the requirements of this document.

## 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 1107-1, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for roof waterproofing — Determination of dimensional stability*

EN 1107-2, *Flexible sheets for waterproofing — Determination of dimensional stability — Part 2: Plastic and rubber sheets for roof waterproofing*

EN 1109, *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of flexibility at low temperature*

EN 1296, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roofing — Method of artificial ageing by long term exposure to elevated temperature*

EN 1297, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water*

EN 1848-1, *Flexible sheets for waterproofing — Determination of length, width and straightness — Part 1: Bitumen sheets for roof waterproofing*

EN 1848-2, *Flexible sheets for waterproofing — Determination of length, width, straightness and flatness — Part 2: Plastic and rubber sheets for roof waterproofing*

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*

EN 1928:2000, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness*

EN 1931, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of water vapour transmission properties*

EN 12114, *Thermal performance of buildings — Air permeability of building components and building elements — Laboratory test method*

EN 12310-1:1999, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for waterproofing — Determination of resistance to tearing (nail shank)*

EN 12311-1, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for roof waterproofing — Determination of tensile properties*

EN 13111, *Flexible sheets for waterproofing — Underlays for discontinuous roofing and walls — Determination of resistance to water penetration*

EN 13416:2001, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Rules for sampling*

EN 13501-1:2007, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2:2002)*

EN ISO 12572, *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties (ISO 12572:2001)*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13416:2001 and the following apply.

#### 3.1 underlays for walls

factory made flexible sheets of plastics, bitumen, rubber or other suitable materials, which are used behind external wall coverings

#### 3.2 manufacturer's limiting value MLV

value stated by the manufacturer to be met during testing, that can be a minimum or a maximum value according to statements made under the product characteristics of this document

#### 3.3 manufacturer's declared value MDV

value declared by the manufacturer accompanied by a declared tolerance

#### 3.4 sampling

procedure used to select or constitute a sample

#### 3.5 sample

sheet from which a test piece is taken

#### 3.6 test piece

part of the sample from which test specimens are taken

#### 3.7 test specimen

piece of precise dimensions taken from the test piece

## 4 Product characteristics

### 4.1 General

The arithmetic mean value calculated from a number of test results shall lie within the tolerance declared for the characteristic. 95 % of the individual results shall lie within the declared tolerance unless otherwise specified in this document.

When tested for purposes other than initial type testing or factory production control, the tests to determine product characteristics indicated in this document shall be started within 1 month of delivery from the manufacturer.

### 4.2 Dimensions, straightness and mass per unit area

The dimensions, straightness and mass per unit area shall comply with the values declared by the manufacturer (see Annex D) in accordance with 5.2.1. The tolerances required are indicated in Table 1.

**Table 1 — Tolerances on length, width, straightness and mass per unit area**

Characteristic	Tolerance
Length	-0 %
Width	-0,5 % to +1,5 %
Straightness	Maximum deviation from straightness: 30 mm per 10 m length or in proportion for other lengths (e.g. 15 mm per 5 m length)
Mass per unit area	Shall lie within the declared tolerance of the MDV

### 4.3 Application related characteristics

#### 4.3.1 Reaction to fire

Where required, the reaction to fire shall be determined in accordance with 5.2.2.

#### 4.3.2 Resistance to water penetration

##### 4.3.2.1 Class *W1*

The product shall be classified as resistant to water penetration Class *W1* if it passes the resistance to water penetration test in accordance with 5.2.3. If the product fails the test of resistance to water penetration indicated in 5.2.3, it shall be tested in accordance with 4.3.2.2.

##### 4.3.2.2 Class *W2*

A product failing to pass the test indicated in 5.2.3 shall be tested in accordance with 5.2.4. If the measured mean volume of water passing through the specimens tested is less than 100 ml, the product shall be classified as resistant to water penetration Class *W2*.