

Hydroizolačné pásy a fólie. Definície a charakteristiky podkladových vrstiev. Časť 1: Podkladové vrstvy pre skladané strešné krytiny.

STN EN 13859-1

72 7663

Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/14

Obsahuje: EN 13859-1:2014

Oznámením tejto normy sa ruší STN EN 13859-1 (72 7663) z februára 2011 STN EN 13859-1: 2014

## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13859-1

April 2014

ICS 91.100.50

Supersedes EN 13859-1:2010

#### **English Version**

# Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing

Feuilles souples d'étanchéité - Définitions et caractéristiques des écrans souples - Partie 1 : Écrans souples de sous-toiture pour couverture en petits éléments discontinus

Abdichtungsbahnen - Definitionen und Eigenschaften von Unterdeck- und Unterspannbahnen - Teil 1: Unterdeck- und Unterspannbahnen für Dachdeckungen

This European Standard was approved by CEN on 16 February 2014.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

### **Contents** Page

Forev	word	4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4 4.1 4.2 4.3 4.4	Product characteristics	7 7 7
5 5.1 5.2	TestingSamplingTest methods	9
6 6.1 6.2 6.3	Assessment and verification of the constancy of performance – AVCP	11 11 12
7	Product data sheet	
8	Marking, labelling and packaging	
Anne	Annex A (normative) Determination of tensile properties	
<b>A</b> .1	General	_
<b>A.2</b>	Apparatus	18
<b>A.3</b>	Sampling	
<b>A.4</b>	Preparation of test specimens	18
A.5	Procedure	
<b>A.6</b>	Expression and evaluation of results	19
<b>A</b> .7	Test report	20
Anne	ex B (normative) Determination of resistance to tearing	21
B.1	General	21
B.2	Apparatus	21
B.3	Sampling	21
B.4	Preparation of test specimens	21
B.5	Procedure	21
B.6	Expression and evaluation of results	22
B.7	Test report	22
Anne	ex C (normative) Artificial ageing by exposure to UV and heat	23
C.1	General	23

C.2	Principle	23
C.3	Apparatus	23
C.4	Preparation of test specimens	23
C.5	Procedure	24
C.6	Expression of results	24
C.7	Test report	24
Annex	D (normative) Product type determination and frequencies of testing for factory production control	26
Annex	E (informative) Example of a product data sheet	28
Annex	F (normative) Determination of the watertightness of seams	30
F.1	General	30
F.2	Terms and definitions	30
F.3	Procedure	30
F.4	Apparatus	30
F.5	Preparation of the test specimens	30
F.6	Procedure	31
F.7	Evaluation	31
F.8	Test report	31
Annex	ZA (informative) Clauses of this European Standard addressing provisions of the EU Construction Products Regulation (CPR)	32
ZA.1	Scope and relevant characteristics	32
ZA.2	Procedures for AVPC of the flexible sheets for underlays	33
ZA.2.1	Systems of AVPC	33
ZA.2.2	Declaration of performance (DoP)	35
ZA.2.2.	1 General	35
ZA.2.2.	2 Content	36
ZA.2.2.	3 Example of DoP	37
ZA.3	CE marking and labelling	39
Bibliog	ıraphy	42

#### **Foreword**

This document (EN 13859-1:2014) 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 October 2014 and conflicting national standards shall be withdrawn at the latest by October 2014.

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 13859-1:2010.

The main technical changes that have been made in this new edition are as follows:

- a) the application-related characteristic 'emissivity' has been added:
- b) the wording and the Annex ZA have been adapted to the CPR.

EN 13859, Flexible sheets for waterproofing — Definitions and characteristics of underlays, is composed of the following parts:

- Part 1: Underlays for discontinuous roofing (the present document);
- Part 2: Underlays for walls.

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 Regulation (EU) No. 305/2011.

For relationship with Regulation (EU) No. 305/2011, 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, 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 characteristics of flexible sheets for underlays which are to be used under roof covering of discontinuous roofs. 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 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 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 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 13859-1:2014 (E)

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

EN 13501-1:2007+A1:2009, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

EN 13859-2:2014, Flexible sheets for waterproofing — Definitions and characteristics of underlays — Part 2: Underlays for walls

EN 15976, Flexible sheets for waterproofing - Determination of emissivity

EN ISO 11925-2, Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2:2010)

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

## koniec náhľadu – text ďalej pokračuje v platenej verzii STN