

Flexible sheets for waterproofing — Bitumen damp proof sheets including bitumen basement tanking sheets — Definitions and characteristics

The European Standard EN 13969:2004, incorporating amendment A1:2006, has the status of a British Standard

ICS 01.040.91; 91.100.50

National foreword

This British Standard is the UK implementation of EN 13969:2004, incorporating amendment A1:2006.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee B/546, Flexible sheets for water and water vapour control.

A list of organizations represented on this committee can be obtained on request to its secretary.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 10 January 2005

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ISBN 978 0 580 59161 7

Amendments issued since publication

Amd. No.	Date	Comments
17212	31 July 2007	See national foreword

ICS 01.040.91; 91.100.50

English version

**Flexible sheets for waterproofing - Bitumen damp proof sheets
including bitumen basement tanking sheets - Definitions and
characteristics**

Feuilles souples d'étanchéité - Feuilles bitumineuses
empêchant les remontées d'humidité du sol - Définitions et
caractéristiques

Abdichtungsbahnen - Bitumenbahn-Feuchtigkeitssperren -
Definitionen und Eigenschaften

This European Standard was approved by CEN on 20 October 2004.

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Contents

	page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Types of product.....	6
5 Product characteristics	6
5.1 General.....	6
5.2 Visible defects.....	6
5.3 Dimensions and tolerances	7
5.4 Thickness and mass per unit area	7
5.5 Water tightness	7
5.6 Resistance to impact.....	7
5.7 Durability	7
5.7.1 Against artificial ageing/degradation.....	7
5.7.2 Against chemicals	7
5.8 Flexibility at low temperatures (pliability)	7
5.9 Resistance to tearing (nail shank)	8
5.10 Joint strength	8
5.11 Water vapour transmission properties.....	8
5.12 Resistance to static loading	8
5.13 Tensile properties	8
5.14 Reaction to fire.....	8
5.15 Dangerous substances	8
6 Evaluation of conformity.....	9
6.1 General.....	9
6.2 Type testing.....	9
6.2.1 General.....	9
6.2.2 Sampling.....	9
6.3 Factory production control (FPC)	9
6.3.1 General.....	9
6.3.2 Frequency of testing	9
7 Product data sheet and designation.....	11
8 Marking, labelling and packaging	11
Annex A (informative) Information about chemical resistance	12
Annex B (informative) Example of product data sheet.....	14
General information.....	14
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	16
ZA.1 Scope and relevant characteristics	16
ZA.2 Procedures for attestation of conformity.....	17
ZA.2.1 Systems of attestation of conformity	17
ZA.2.2 EC Certificate and declaration of conformity	20
ZA.3 CE marking and labelling.....	21
Bibliography	23

Foreword

This document (EN 13969:2004) 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 June 2005, and conflicting national standards shall be withdrawn at the latest by September 2006.

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(s), see informative Annex ZA, which is an integral part of this document.

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Foreword to amendment A1

This document (EN 13969:2004/A1:2006) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by BSI.

This Amendment to the European Standard EN 13969:2004 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by May 2007.

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1 Scope

This document specifies definitions and characteristics of flexible reinforced bitumen sheets for which the intended use is as damp proofing for buildings, including basement tanking. It specifies the requirements and test methods and provides for the evaluation of conformity of the products with the requirements of this standard.

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 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 1847, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Methods of exposure to liquid chemicals, including water*

EN 1848-1, *Flexible sheets for waterproofing — Determination of length, width and straightness — Part 1: Bitumen 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 1850-1, *Flexible sheets for waterproofing — Determination of visible defects — Part 1: Bitumen sheets for roof waterproofing*

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, *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 12316-1, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for roof waterproofing — Determination of peel resistance of joints*

EN 12317-1, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for roof waterproofing - Determination of shear resistance of joints*

EN 12691, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of resistance to impact*

EN 12730:2001, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of resistance to static loading*

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

EN 13501-1:2002, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*

EN ISO 9001, *Quality management systems — Requirements (ISO 9001:2000)*

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)*

3 Terms and definitions

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

3.1

sheet for damp proofing

factory made flexible sheet made of bitumen material or composites used on or under floors or ground slabs or in walls to prevent liquid water not under hydrostatic pressure passing from the ground into the internal environment

3.2

tanking sheet

factory made flexible sheet made of bitumen material or composites used in wall construction, or on or under floors or ground slabs to prevent liquid water under hydrostatic pressure passing from the ground into the internal environment or from one section of the structure to another

3.3

carrier

material incorporated into or onto the factory-made waterproofing sheet to ensure its stability and/or mechanical resistance

3.4

backing

material incorporated onto the factory-made sheet without a permanent mechanical function

3.5

surfacing

material applied to the surfaces of waterproofing sheets, either as a permanent protection against weathering on the upper surface or as an anti-sticking substance on one or both surfaces of the waterproofing sheets

3.6

manufacturer's limiting value MLV

value stated by the manufacturer to be met during testing. The manufacturer's limiting value can be a minimum or a maximum value according to statements made under product characteristics of this document

3.7

manufacturer's declared value MDV

value declared by the manufacturer accompanied by a declared tolerance

3.8

oxidized bitumen

straight run petroleum bitumen or a fluxed bitumen which has been hardened and rendered less temperature susceptible by blowing with air at high temperature with or without the use of a catalyst

- 3.9
elastomeric bitumen**
petroleum bitumen and/or oxidized bitumen modified by the addition of thermo-plastic rubbers
- 3.10
plastomeric bitumen**
petroleum bitumen and/or oxidized bitumen modified by the addition of polyolefin or polyolefin copolymer compound
- 3.11
reinforced bitumen sheet**
factory made flexible of bitumen with internal or external incorporation of one or more carriers, supplied in roll form ready to use
- 3.12
sampling**
procedure used to select or constitute a sample
- 3.13
sample**
sheet from which a test piece is taken
- 3.14
test piece**
part of the sample from which test specimens are taken
- 3.15
test specimen**
piece of precise dimensions taken from the test piece

4 Types of product

The types of damp proof sheets covered by this document are designated as follows:

Type A: Bitumen damp proof sheet;

Type T: Bitumen tanking sheet.

5 Product characteristics

5.1 General

5.1.1 Where a tolerance is limited by this document it does not have to be declared by the manufacturer.

5.1.2 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.

5.2 Visible defects

The product shall be free of visible defects as determined in accordance with EN 1850-1.