

# norm

# NEN-EN 13969

Flexibele banen voor waterafdichtingen -  
Dampdichte membranen van bitumen  
inclusief bitumen membranen voor  
kelderbassins - Definities en  
eigenschappen

Publicatie uitsluitend voor commentaar

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

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Normcommissie 353 069 "Flexibele banen voor waterafdichting"

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July 2000

ICS

English version

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

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

Abdichtungsbahnen - Bitumenbahnen für die  
Bauwerksabdichtung gegen Bodenfeuchte und Wasser -  
Definitionen und Eigenschaften

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 254.

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## Contents

Clauses	Page
<b>Foreword</b>	<b>3</b>
<b>Introduction</b>	<b>4</b>
<b>1 Scope</b>	<b>5</b>
<b>2 Normative references</b>	<b>5</b>
<b>3 Definitions</b>	<b>7</b>
3.1 General definitions	7
3.2 Material definitions	8
<b>4 Products designation</b>	<b>8</b>
4.1 Product designation code	8
4.2 Designation of the method of application	9
4.3 TYPE of Product	9
<b>5 Product characteristics</b>	<b>9</b>
5.1 General	9
5.2 General characteristics	11
5.3 Rules for sampling	13
<b>6 Attestation of conformity</b>	<b>13</b>
6.1 Levels and classes for product performances	13
6.2 Systems of attestation of conformity	13
6.3 Conditions to be applied by CEN on the specifications of the attestation of conformity system	13
6.4 Factory production control and verification of manufacturer's limiting value	13
<b>7 Product data sheet and designation</b>	<b>14</b>
<b>8 Marking, labelling and packaging</b>	<b>14</b>
<b>Annex A</b> (informative)	<b>15</b>
<b>Annex B</b> (informative) Information about chemical resistance	<b>16</b>
<b>Annex C</b> (normative) Factory production control and verification of manufacturer's limiting value and manufacturer's determined value	<b>19</b>
<b>Annex ZA</b> (informative) Relationship to the EU Directives	<b>20</b>

## Foreword

This European Standard has been prepared by the CEN /TC254 "Flexible Sheets for Waterproofing", Working Group 7.

This European Standard has been prepared under the mandate given to CEN by the Commission of the European Communities and the European Free Trade Association and supports Essential Requirements of the Council Directive of 21 December 1988 on the approximations of laws, regulations and administrative provisions of the Member States relating to construction products (89/106EEC)<sup>1</sup>

The European standard is a general product standard for flexible sheets of plastics intended for damp proof membranes, including plastics basement tanking membranes, for use in buildings. This standard is one of a series of product standards for factory made flexible sheets for use in buildings.

The general test methods referred to in this product standard are common to all waterproofing products used in buildings falling within the scope of CEN/TC254 unless otherwise stated in this product standard. The specific test method standards referred to in the standard are common to the specific types of flexible sheets falling within the scope of CEN/TC254 unless otherwise stated in this product standard.

This document is currently submitted to CEN enquiry.

The characteristics of this European Standard are divided into harmonized characteristics and voluntary characteristics. Harmonized characteristics are indicated in annex ZA of this European Standard.

No existing European Standard is superseded.

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<sup>1</sup> ) "CPD" in the further text of this standard

## Introduction

Article 2 of the CPD requires that construction products be fit for intended use, that is to say that the products shall have the characteristics enabling the works incorporating such products to satisfy the Essential Requirements referred to in Article 3 of the CPD, in addition to any other technical requirements that may be specified by the user.

Product characteristics and the manner of their installation and use are inseparable elements which together determine fitness for purpose. The test methods in this European Standard are referred to the mandated properties and supplementary performance requirements for use in building applications are generally in accordance with the provisional mandate to CEN in the area of flexible sheets for waterproofing, 15/33.WI00254058

The list of test methods may require extension to meet the specific needs of other product applications and uses not covered by this European Standard.

Bitumen damp proof membranes including bitumen basement tanking membranes of various types have been used in Europe over the years in the principle applications listed in this European Standard. The fitness for purpose of such products in the relevant applications is known by virtue of experience. The products to which this European Standard applies, though varied in composition and dimensions, are those which are known and which comply with the product definition and requirements given in this European Standard.

The characteristics of the European Standard are divided into harmonised characteristics and voluntary characteristics. The harmonised characteristics relate to those stated in mandate 1 products used for floor beds. The voluntary characteristics are recommended by CEN/TC254. They are distinguished from harmonised characteristics by italic printing.

Bitumen damp proof membranes including bitumen basement tanking membranes complying with the requirements of this European Standard and applied, used and maintained in accordance with national application standards or industry acknowledged rules of technology for such products, which standards and rules take account of geographical and local climatic conditions as well as different levels of protection, are deemed to satisfy the Essential Requirements of the Construction Products Directive for an economically reasonable working life.

## 1 Scope

This European Standard specifies definitions and characteristics of flexible reinforced bitumen sheets for which the main intended use is as damp proof membranes for buildings, including basement tanking membranes. It specifies the system for attestation of conformity of the product to this European Standard and includes the conditions for CE marking. It also covers additional characteristics that are of importance for the trade.

## 2 Normative references

This European Standard incorporates provisions from other publications by dated or undated reference. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN1109

Flexible sheets for waterproofing – Bitumen sheets for roof waterproofing – Determination of flexibility at low temperature.

prEN1296

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Method of artificial ageing by long term exposure to elevated temperature.

prEN1847

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

EN1849 – 1

Flexible sheets for waterproofing– Determination of thickness and mass per unit area – Part 1: Bitumen sheets for roof waterproofing

EN1850 – 1

Flexible sheets for waterproofing– Determination of visible defects – Part 1: Bitumen sheets for roof waterproofing

prEN1931

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Determination of water vapour transmission properties.

EN12039

Flexible sheets for waterproofing – Bitumen sheets for roof waterproofing – Determination of adhesion of granules.

EN12310-1

Flexible sheets for waterproofing – Determination of resistance to tearing (nail shank) – Part 1. Bitumen sheets for roof waterproofing

EN12311-1

Flexible sheets for waterproofing – Determination of tensile properties – Part 1: Bitumen sheets for roof waterproofing

EN12316- 1

Flexible sheets for waterproofing – Determination of peel resistance of joints – Part 1: Bitumen sheets for roof waterproofing

EN12317-1

Flexible sheets for waterproofing - Determination of shear resistance of joints - Part 1: Bitumen sheets for roof waterproofing

prEN12691

Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing- Determination of resistance to impact.

prEN12730

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing– Determination of resistance to static loading.

prEN13416

Flexible sheets for waterproofing – Bitumen, plastic and rubber sheets for roof waterproofing – Rules for sampling.



### 3 Definitions

For the purpose of this standard, the definitions indicated in prEN13416 and 3.1 and 3.2 apply.

#### 3.1 General definitions

**3.1.1 Waterproofing:** An action to prevent the passage of water from one plane to another.

**3.1.2 Waterproofing sheet:** A factory made flexible sheet including any carriers, facings, surface texture and/or backing.

**3.1.3 Bitumen sheet damp proof membrane:** Flexible sheet made of bitumen material or composites used on or under floors or ground slabs to prevent liquid water not under hydrostatic pressure passing from the ground into the internal environment. This can also include use in walls.

**3.1.4 Bitumen tanking membrane:** Flexible sheet made of bitumen material or composites used in wall construction, 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.

**3.1.5 Product designation code:** A product description by letters and numbers as defined in informative annex A.

**3.1.6 Carrier:** A material incorporated into or onto the factory-made waterproofing sheet to ensure its stability and/or mechanical resistance.

**3.1.7 Backing:** A layer of film, fabric, scrim or non-woven mat of synthetic material or glassfibres or other materials applied to the underside of the waterproofing sheet.

**3.1.8 Surfacing:** A 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.

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