

**Flexibla tätskikt – Bitumen-, plast- och gummi-
baserade tätskikt för tak – Bestämning av
vattentäthet**

**Flexible sheets for waterproofing – Bitumen,
plastic and rubber sheets for roof waterproofing –
Determination of watertightness**

Europastandarden EN 1928:2000 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1928:2000.

The European Standard EN 1928:2000 has the status of a Swedish Standard. This document contains the official English version of EN 1928:2000.

Dokumentet består av 10 sidor.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1928

March 2000

ICS 91.100.50

English version

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

Feuilles souples d'étanchéité - Feuilles d'étanchéité de toiture bitumineuses, plastiques et élastomères - Détermination de l'étanchéité à l'eau

Abdichtungsbahnen - Bitumen-, Kunststoff- und Elastomerbahnen für Dachabdichtungen - Bestimmung der Wasserdichtheit

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Foreword

This European Standard 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of an identical text or by endorsement, at the latest by september 2000, and conflicting national standards shall be withdrawn at the latest by september 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This standard has been prepared by the Technical Committee CEN/TC 254 to determine the watertightness of sheets for waterproofing.

This standard has been prepared for applications in roofing but it may also be used in other areas where it is relevant.

This standard is intended for characterisation of flexible sheets for waterproofing as manufactured or supplied before use. This standard relates exclusively to products and not to waterproofing membrane systems composed of such products and installed in the works.

1 Scope

This European Standard applies to bitumen, plastic and rubber sheets for roof waterproofing and specifies procedures for determining the watertightness, i.e. the resistance to ponding water or to hydraulic pressure absorbed by a limited part of the surface, of factory made products.

This standard may also be used in other waterproofing areas.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. 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 these publications apply to this draft European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN 13416:1999

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

3 Definitions

For the purpose of this standard, the following definitions apply.

3.1 upper side: The upperside of the sheets, as laid, usually the inside of the roll.

3.2 watertightness: condition of flexible sheet for waterproofing if

- a) In case of method A: no discoloration is observed of the filter paper above the surface of a test specimen at the applied water pressure during the total test period.
- b) In case of method B: the applied maximum pressure does not drop by more than 5% of the initial value.

4 Principle

Due to the nature of the bitumen, plastic or rubber sheets concerned, the test procedure given in this standard consists of two methods:

4.1 Method A

Test procedure for sheets intended for use in low pressure application, e.g. roofing, underlay, vapour control layer. The specimen is subjected to a pressure up to 60 kPa for 24 h.

4.2 Method B

Test procedure for sheets intended for use in high pressure application, e.g. special roofs, tunnelling and tanking. Submission of a test specimen to a specified water pressure for 24 h against a disk containing four slots of specified form and dimensions. The test specimen is observed to establish whether it remains watertight.

5 Apparatus

5.1 Method A

A cylindrical metal flanged box, with a 150 mm diameter aperture, is connected to an open ended pipe or vessel which rises to a height of not less than 1 m, generally as shown in figure 1.