

Flexible sheets for waterproofing — Determination of length, width and straightness —

Part 1: Bitumen sheets for roof waterproofing

The European Standard EN 1848-1:1999 has the status of a
British Standard

ICS 91.100.50

National foreword

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The UK participation in its preparation was entrusted to Technical Committee B/546, Flexible sheets for waterproofing, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 6, an inside back cover and a back cover.

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This British Standard, having been prepared under the direction of the Building and Civil Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 February 2000

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ISBN 0 580 35735 X

Amendments issued since publication

Amd. No.	Date	Comments

ICS 91.100.50

English version

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

Feuilles souples d'étanchéité- Détermination de la longueur, de la largeur et de la rectitude - Partie 1: Feuilles d'étanchéité de toiture bitumineuses

Abdichtungsbahnen - Bestimmung der Länge, Breite und Geradheit - Teil 1: Bitumenbahnen für Dachabdichtungen

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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of an identical text or by endorsement, at the latest by May 2000, and conflicting national standards shall be withdrawn at the latest by September 2001.

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.

1 Scope

This European Standard specifies a method for the determination of the length, width and straightness of bitumen sheets for roof waterproofing.

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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN 13416¹⁾

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

3 Definitions

For the purposes of this standard, the definitions indicated in 3.1 to 3.3 apply.

3.1 length the dimension of the sheet measured in the manufacturing direction

3.2 width the dimension of the sheet measured at right angles to the manufacturing direction

3.3 straightness the absence of any deviation of the longitudinal edge of the sheet from a straight line

4 Principle

The selected roll of bitumen sheet is unrolled on a flat surface and the length and width is measured using a metal rule. The straightness of the sheet is determined by measuring deviation from a straight line using a similar measuring device.

¹⁾ Standard in preparation.

5 Apparatus

5.1 Length

Metal measuring tape of a length greater than the length of the bitumen sheet to be measured, permitting the measurement to be made to the nearest 10 mm.

5.2 Width

Measuring tape or rule of length greater than the width of the bitumen sheet to be measured, permitting the measurement to be made to the nearest 1 mm.

5.3 Straightness

Chalked line to mark a straight reference line on the bitumen sheet. Metal measuring tape or rule, permitting the measurement to be made to the nearest 1 mm.

6 Sampling and preparation of test specimens

6.1 Sampling

A complete undamaged roll of the bitumen sheet to be tested shall be selected in accordance with prEN 13416.

6.2 Conditioning of specimens

Generally no ageing or conditioning shall be carried out and measurements shall be made under ambient conditions.

In case of dispute, the tests should be carried out at (23 ± 2) °C after conditioning for at least 20 h at (23 ± 2) °C.

7 Procedure

7.1 General

The selected roll shall be laid on a flat surface. The sheet is carefully unrolled ensuring maximum contact with the flat surface.

After 5 min, measurements shall be taken for the determination of length and width and the sheet tested for straightness.

7.2 Determination of length

For determination for the length, two measurements shall be made at a distance of one third of the total roll width from each edge, recording the results to the nearest 10 mm.

7.3 Determination of width

For determination of width, measurements shall be made at a distance of $(1 \pm 0,01)$ m from each end of the roll, recording the results to the nearest 1 mm.

7.4 Determination of straightness

For determination of straightness, two points shall be marked on the test specimen at a distance of 100 mm from one of the longitudinal sides, one at each end of the roll (see Figure 1, points A and B). Using a chalked line, a continuous reference line is marked on the surface of the sheet between these two points. Measurements shall be made to determine the point of maximum deviation (g) between the reference line and the longitudinal side. The maximum deviation ($g - 100$ mm) shall be recorded to the nearest 1 mm.

For rolls in excess of 10 m in length, the test shall be conducted for each successive 10 m length or part thereof (see Figure 2).

Dimension in millimetres

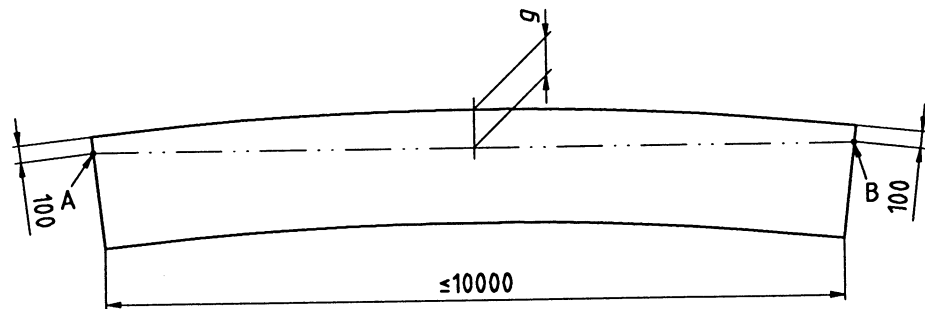
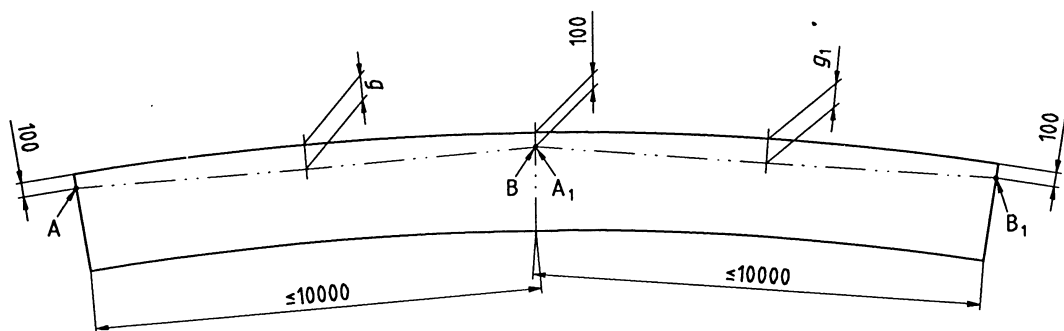


Figure 1



Dimension in millimetres

Figure 2

8 Expression of results

8.1 Results for the determination of length

The measurement of length to be quoted is the mean of the two individual measurements, expressed to the nearest 10 mm.

8.2 Results for the determination of width

The measurement of width to be quoted is the mean of the two individual measurements rounded up to the nearest 1 mm.

8.3 Results for the determination of straightness

The straightness of the sheet is expressed in terms of the maximum deviation found during the test rounded up to the nearest 1 mm.

8.4 Precision

The precision is not specified by this standard.

It is assumed that:

- the measurement of length (8.1) cannot be made to a precision of greater than ± 10 mm;
- the measurement of width (8.2) cannot be made to a precision of greater than ± 1 mm;
- the measurement of straightness (8.3) cannot be made to a precision of greater than ± 5 mm.

9 Test report

The test report shall include at least the following information:

- a) all details necessary to identify the product tested;
- b) a reference to this European Standard (EN 1848-1) and any deviation from it;
- c) information on sampling and details on preparation of test specimens in accordance with clause 6;
- d) the test results in accordance with clause 8;
- e) date of the test.

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