Flexibla tätskikt – Bestämning av skjuvnings-hållfasthet i fogar –
Del 2: Plast- och gummibaserade tätskikt för tak

Flexible sheets for waterproofing – Determination of shear resistance of joints –
Part 2: Plastic and rubber sheets for roof waterproofing


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Telefon: 08 - 555 523 10. Telefax: 08 - 555 523 11
E-post: sis.sales@sis.se. Internet: www.sis.se
Flexible sheets for waterproofing - Determination of shear resistance of joints - Part 2: Plastic and rubber sheets for roof waterproofing

This European Standard was approved by CEN on 17 August 2000.

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of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.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

Introduction

This European Standard is intended for characterisation of plastic and rubber sheets as manufactured or supplied before use. This test method relates to products or to their components where appropriate, and not to waterproofing membrane systems composed of such products and installed in the works.

This test is intended to be used in conjunction with European Standard “Definitions and Characteristics” for plastic and rubber sheets for roof waterproofing.

1 Scope

This European Standard specifies a method for determining the resistance to shearing of joints between two adjacent sheets of the same plastic or rubber sheets for roof waterproofing.

NOTE The shearing characteristics of a joint between two widths of plastic or rubber sheets vary considerably depending on the material, method of jointing, the size of the overlap and the workmanship.

2 Normative references

This European Standard incorporates, by dated or undated references, 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 any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest editions of the publication referred to apply.


prEN 13416:2000 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 definition applies:

3.1 Shear resistance: The maximum tensile force required to extend a prepared joint test specimen, in shear, until it breaks or separates.
4 Principle

The principle of the test is to pull a specimen of a joint in shear at a constant speed until it breaks or separates. The tensile force is continuously recorded throughout the test.

5 Apparatus

Tensile testing machine equipped with a continuous recording of force and corresponding extension and capable of maintaining a uniform speed of grip separation as specified below.

The tensile testing machine shall have a sufficient loading capacity in excess of 2000 N and a grip separation speed of \((100 \pm 10)\) mm/min. The width of grips shall not be less than 50 mm.

The tensile testing machine shall be equipped with grips of a type, which maintain or increase the clamping pressure as a function of the increase of the force applied to the test specimen. The test specimen shall be held so that it does not slip in the grips more than 2 mm.

The method of gripping shall not induce premature rupture close to the grips.

The force measuring system shall meet at least Class 2 of EN ISO 7500-1 (i.e. ± 2%).

6 Sampling

Samples shall be taken in accordance with prEN 13416:2000.

7 Preparation of test pieces and test specimens

Test pieces to be used for jointing should be previously conditioned for at least 20 h at \((23 \pm 2)^\circ\)C and at a relative humidity between 30 % and 70 %.

Test pieces of the sheet are joined by the method(s) to be used for installation, both for side lap and end lap jointing, with an overlap that is specified for the product. After jointing, the test piece shall be conditioned for a minimum of 2 h at \((23 \pm 2)^\circ\)C and at \((50 \pm 5)\) % RH before testing unless the manufacturer recommends differently.

From each of these joint test pieces five rectangular test specimens \((50 \pm 1)\) mm wide shall be taken perpendicular to the joint. They shall have such a length, so that the ends of the initial distance between the two grips is \((200 \pm 5)\) mm with the joint in the middle (see Figure 1).