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Flexibla tätskikt – Förstärkta bitumenbaserade tätskikt för tak – Definitioner och karaktäriserande egenskaper

Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing – Definitions and characteristics

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Denna standard ersätter SS-EN 13707:2004+A2:2009, utgåva 1.

The European Standard EN 13707:2013 has the status of a Swedish Standard. This document contains the official version of EN 13707:2013.

This standard supersedes the Swedish Standard SS-EN 13707:2004+A2:2009, edition 1.

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EUROPEAN STANDARD

EN 13707

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2013

ICS 91.100.50; 01.040.91

Supersedes EN 13707:2004+A2:2009

English Version

Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics

Feuilles souples d'étanchéité - Feuilles bitumineuses
armées pour l'étanchéité de toiture - Définitions et
caractéristiques

Abdichtungsbahnen - Bitumenbahnen mit Trägereinlage für
Dachabdichtungen - Definitionen und Eigenschaften

This European Standard was approved by CEN on 12 November 2012.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 13707:2013) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13707:2004+A2:2009.

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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1 Scope

This European Standard specifies definitions and characteristics for flexible reinforced bitumen sheets for which the intended use is roofing. This covers sheets used as top layers, intermediate layers and underlayers. It does not cover reinforced bitumen sheets for waterproofing used as underlays for discontinuous roofing.

This European Standard does not cover waterproofing sheets which are intended to be used fully bonded under bituminous products (e.g. asphalt) directly applied at high temperature, specified by EN 14695.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1107-1, *Flexible sheets for waterproofing — Part 1: Bitumen sheets for roof waterproofing — Determination of dimensional stability*

EN 1108, *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of form stability under cyclical temperature changes*

EN 1109, *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of flexibility at low temperature*

EN 1110, *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of flow resistance at elevated 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 1297, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and 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 12039, *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of adhesion of granules*

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 12691:2006, *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 13416:2001, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Rules for sampling*

EN 13501-1:2007+A1:2009, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*

EN 13501-5, *Fire classification of construction products and building elements — Part 5: Classification using data from external fire exposure to roofs tests*

EN 13897, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness after stretching at low temperature*

EN 13948, *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of resistance to root penetration*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13416:2001 and the following apply.

3.1 waterproofing

action to prevent the passage of water from one plane to another

3.2 waterproofing system

assembly of one or more layers of roofing sheet in its applied and jointed form, which has certain performance characteristics, to be assessed as a whole

Note 1 to entry: Where only one layer is used this is usually referred to as a single layer system.

Note 2 to entry: A bituminous roofing system is formed on site by connecting and sealing one or more superimposed layers of bitumen sheets to form a single composite waterproof layer for use over flat, pitched or vertical surfaces according to building application requirements.

3.3 roofing

waterproofing used in the roof of a building including roofs used for parking of vehicles and for roof gardens

Note 1 to entry: Waterproofing sheets which are intended to be fully bonded and bituminous products directly applied at high temperature are specified by the European Standard on flexible reinforced bitumen sheets for concrete bridge decks and other concrete surfaces trafficable by vehicles (see EN 14695 [8]).

3.4 roofing sheet

factory made flexible sheet including any carriers, facings, surface texture and/or backing

3.5

carrier

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

3.6

backing

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

3.7

surfacing

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

3.8

batch

amount of product manufactured to the same specification within a maximum period of 24 h

3.9

manufacturer's limiting value

MLV

value which is stated by the manufacturer to be met during testing and which can be a minimum or a maximum value according to statements made under product characteristics of this document

3.10

manufacturer's declared value

MDV

value declared by the manufacturer accompanied by a declared tolerance

3.11

reinforced bitumen sheet

factory made flexible layer of bitumen with internal or external incorporation of one or more carriers, supplied in roll form ready for use

3.12

oxidised 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

3.13

elastomeric bitumen

petroleum bitumen and/or oxidised bitumen modified by the addition of thermo-plastic rubbers

3.14

plastomeric bitumen

petroleum bitumen and/or oxidised bitumen modified by the addition of polyolefin or polyolefin copolymer compound

3.15

sampling

procedure used to select or constitute a sample

3.16

sample

sheet from which a test piece is taken

3.17

test piece

part of the sample from which test specimens are taken