

# **BSI Standards Publication**

Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Specimen preparation



BS EN 13375:2019 BRITISH STANDARD

### National foreword

This British Standard is the UK implementation of EN 13375:2019. It supersedes BS EN 13375:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/546, Flexible sheets for waterproofing and water vapour control.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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ISBN 978 0 580 98500 3

ICS 91.100.50

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2019.

Amendments/corrigenda issued since publication

Date Text affected

#### **EUROPEAN STANDARD**

# **EN 13375**

# NORME EUROPÉENNE

# EUROPÄISCHE NORM

April 2019

ICS 91.100.50

Supersedes EN 13375:2004

#### **English Version**

# Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Specimen preparation

Feuilles souples d'étanchéité - Etanchéité des ponts et autres surfaces en béton circulables par les véhicules -Préparation des éprouvettes Abdichtungsbahnen - Abdichtung für Betonbrücken und andere Verkehrsflächen auf Beton - Probenvorbereitung

This European Standard was approved by CEN on 18 February 2019.

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

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## **European foreword**

This document (EN 13375:2019) has been prepared by Technical Committee CEN/TC 254 "Flexible sheets for waterproofing", the secretariat of which is held by NEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2019, and conflicting national standards shall be withdrawn at the latest by October 2019.

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

This document supersedes EN 13375:2004.

EN 13375:2019 includes the following significant technical changes with respect to EN 13375:2004:

- Change of Foreword into European Foreword;
- Clause 2, Normative references has been updated with citation of Bituminous mixtures specifications EN13108-1, and -6 and -7; prEN17048 has been introduced;
- Clause 4, Table 1 has been updated with citation of EN numbers at each test method;
- Subclause 5.2 updated with the use of CEM I 52.5 N;
- Clause 6, Note 1 has been split into Note 1 and Note 2;
- Section 7.1.2, Mastic asphalt has been updated to EN13108-6 standard, and Grading (Figure 3) has been deleted;
- Section 7.1.3, now "Asphalt Concrete", has been updated according to EN 13108-1 (previous title was "Coarse bituminous mixture");
- Section 7.1.4 "Porous Asphalt" has been introduced as new section, according to EN13108-7.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

BS EN 13375:2019 **EN 13375:2019 (E)** 

## Introduction

The purpose of this document is to give rules for the preparation of specimens for performance related tests on waterproofing systems. This document also includes specifications for the base specimen concrete and for the bituminous mixes for the asphalt layer in contact with the waterproofing and used for the test.

#### 1 Scope

This document is one of a series of documents applicable to flexible sheets for waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles.

This document specifies:

- the composition, the characteristics and the preparation procedure of the base specimen concrete slabs;
- the composition, the characteristics and the preparation procedure of different bituminous mixtures for the asphalt layer;
- the rules for the preparation of specimens.

This document outlines the specimen preparation for tests on the waterproofing systems which are referred to in the different test standards.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1766:2017, Products and systems for the protection and repair of concrete structures — Test methods — Reference concretes for testing

EN 13036-1, Road and airfield surface characteristics — Test methods — Part 1: Measurement of pavement surface macrotexture depth using a volumetric patch technique

EN 13108-1, Bituminous mixtures — Material specifications — Part 1: Asphalt Concrete

EN 13108-6, Bituminous mixtures — Material specifications — Part 6: Mastic Asphalt

EN 13108-7, Bituminous mixtures — Material specifications — Part 7: Porous Asphalt

EN 13596, Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of bond strength

EN 13653, Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of shear strength

EN 14224, Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of crack bridging ability

EN 14692, Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of the resistance to compaction of an asphalt layer

EN 14693, Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of the behaviour of waterproofing sheets during application of mastic asphalt

EN 14695, Flexible sheets for waterproofing — Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete — Definitions and characteristics

EN 17048,  $^{1)}$ Flexible sheets for waterproofing — Plastic and rubber sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete — Definitions and characteristics

<sup>1)</sup> Under preparation. Stage at the time of publication: FprEN 17048:2017.