

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

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

Feuilles souples d'étanchéité - Étanchéité des tabliers
de ponts en béton et autres surfaces en béton
circulables par les véhicules - Préparation des
éprouvettes

Abdichtungsbahnen - Abdichtung für Betonbrücken
und andere Verkehrsflächen aus Beton -
Probenvorbereitung

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

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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of an identical text or by endorsement, at the latest by October 2019, and conflicting national standards shall be withdrawn at the latest by October 2019.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.

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.

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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*

¹ Under preparation. Stage at the time of publication: FprEN 17048:2017.