

Hydroizolačné pásy a fólie Hydroizolácia betónových mostoviek a ďalších betónových povrchov vystavených pôsobeniu cestných vozidiel Stanovenie kompatibility pri tepelnom starnutí

STN EN 14691

72 7665

Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Compatibility by heat conditioning

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/17

Obsahuje: EN 14691:2017

Oznámením tejto normy sa ruší STN EN 14691 (72 7665) z decembra 2005

STN EN 14691: 2017

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 14691

March 2017

ICS 91.100.50

Supersedes EN 14691:2005

English Version

Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Compatibility by heat conditioning

Feuilles souples d'étanchéité - Étanchéité des tabliers de ponts en béton et autres surfaces en béton circulables par les véhicules - Détermination de la compatibilité au conditionnement thermique Abdichtungsbahnen - Abdichtung von Betonbrücken und anderen Verkehrsflächen aus Beton - Bestimmung der Verträglichkeit nach Wärmelagerung

This European Standard was approved by CEN on 6 February 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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

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EN 14691:2017 (E)

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European foreword

This document (EN 14691:2017) 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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 14691:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

The significant technical changes are the new reference to prEN 17048 in Clause 2, Normative references, and the tolerance of the oven temperature, in Clause 4.2.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the test is to determine the compatibility of the waterproofing system in the installed condition by determination of the shear strength properties before and after accelerated heat conditioning.

Waterproofing systems are required to maintain performance over extended periods of time once installed on a concrete structure. Many flexible sheets used in the waterproofing of concrete bridge decks are based on materials that are subject to oxidation, migration, diffusion, and absorption of components within the system itself and/or those to which the system is adhered. These physicochemical effects occur over time, however increased temperature will accelerate these effects. The use of an accelerated heat-conditioning test will allow the evaluation of the change in a specific mechanical property, shear strength, over a significantly shorter time period than allowing the waterproofing system to age under normal ambient conditions. The use of the shear resistance test will allow the determination of any change in properties together with an indication of any migrational or interfacial long-term incompatibility between the adherents.

1 Scope

This European Standard specifies a test method for the evaluation of the compatibility of the waterproofing system applied to a concrete surface and covered with an asphalt layer. The complete system is exposed to an accelerated heat conditioning followed by a determination of the shear strength properties before and after heat conditioning.

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 13375, Flexible sheets for waterproofing - Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles - Specimen preparation

EN 13416, Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Rules for sampling

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

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

prEN 17048, Flexible sheets for waterproofing - Plastic and rubber sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete - Definitions and characteristics

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