INTERNATIONAL STANDARD

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Agglomerated cork — Expansion joint fillers — Specifications, packaging and marking

Aggloméré composé de liège — Matériau pour le remplissage de joints de dilatation — Spécifications, emballage et marquage

Reference number
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 87, *Cork*.

This third edition cancels and replaces the second edition (ISO 3869:2001), of which 4.3 has been technically revised.

Agglomerated cork — Expansion joint fillers — Specifications, packaging and marking

1 Scope

This document specifies the characteristics of composition cork intended to be used as expansion joint filler between concrete elements or other construction products.

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.

ISO 633, *Cork — Vocabulary*

ISO 3867, *Composition cork — Expansion joint fillers — Test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 633 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Characteristics

4.1 Types

For the purposes of this document, composition cork can be designated as being of one of the following two types:

— Type II[1)] – cork;

— Type III[1)] – self-expanding cork.

4.2 Materials

Composition cork intended to be used as expansion joint filler shall consist of sheets or preformed strips formed from composition cork produced with clean granulated cork bonded with non-soluble synthetic resin. Sheets or preformed strips of composition cork for expansion joint fillers shall be of such a nature that they do not deform or break during ordinary handling when exposed to atmospheric conditions.

4.3 Dimensions and tolerances

Composition cork shall be tested in accordance with ISO 3867. The sample taken shall have a surface of approximately 0,2 m^2 and shall consist of sufficient material to provide at least five test specimens

1) ASTM D 1752a[1] refers to Type I as “sponge rubber” and Type IV as “recycled PVC”; Types II and III are maintained in this document to harmonize the designations in both standards, ASTM and ISO.

measuring 100 mm × 100 mm. The dimensions of the sheets or preformed strips of composition cork, Types II and Type III, shall be agreed between the supplier and the customer.

The following tolerances shall be observed on the declared values of these types of material:

— on the length: ± 6 mm;

— on the width: ± 3 mm;

— on the thickness: ± 1,5 mm.

4.4 Recovery

Composition cork shall be tested in accordance with ISO 3867. The recovery shall not be less than 90 % of the thickness before the test.

4.5 Compression

Composition cork shall be tested in accordance with ISO 3867. The compression shall be between 340 kPa and 1 035 kPa.

4.6 Extrusion

Composition cork shall be tested in accordance with ISO 3867. The extrusion shall not be greater than 6 mm.

4.7 Expansion in water

Self-expanded cork shall be tested in accordance with ISO 3867. The increase in thickness shall not be less than 140 % of the thickness before the test.

4.8 Apparent density

Composition cork shall be tested in accordance with ISO 3867. The manufacturer shall declare the apparent density.

5 Packaging

Composition cork intended to be used as expansion joint filler shall be stored and transported on pallets or other suitable flat surfaces to prevent breakage and permanent deformation due to weather conditions.

Self-expanding agglomerated cork shall be wrapped in waterproof paper and sealed, to prevent the entrance of moisture, and packaged in appropriate sizes for handling on site.

6 Marking

Packages shall show the following information:

— reference to this document, i.e. ISO 3869;

— the product designation;

— the manufacturer's identification;

— the source/origin.