Irish Standard
I.S. EN 1096-5:2016

Glass in building - Coated glass - Part 5 - Test method and classification for the self-cleaning performances of coated glass surfaces

I.S. EN 1096-5:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 1096-5:2016 is the adopted Irish version of the European Document EN 1096-5:2016, Glass in building - Coated glass - Part 5 - Test method and classification for the self-cleaning performances of coated glass surfaces

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

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1096-5

January 2016

ICS 81.040.20

English Version

Glass in building - Coated glass - Part 5 - Test method and classification for the self-cleaning performances of coated glass surfaces

Verre dans la construction - Verre à couche - Partie 5: Méthode d'essai et classification des performances autonettoyantes des surfaces de verre à couche

Glas im Bauwesen - Beschichtetes Glas - Teil 5: Prüfverfahren und Klasseneinteilung für das Selbstreinigungsverhalten von beschichteten Glasoberflächen

This European Standard was approved by CEN on 30 November 2015.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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European foreword

This document (EN 1096-5:2016) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

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 July 2016, and conflicting national standards shall be withdrawn at the latest by July 2016.

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 part of the standard is published to allow the test methodology to be used.

As stated in the scope, at the present time, the test procedure does not specifically address the durability of the coating's self-cleaning functionality. Work is on-going to develop applicable testing.

EN 1096, *Glass in building — Coated glass*, is composed of the following parts:

— *Part 1: Definitions and classification;*

— *Part 2: Requirements and test methods for A, B and S coatings;*

— *Part 3: Requirements and test methods for C and D coatings;*

— *Part 4: Evaluation of conformity/Product standard;*

— *Part 5: Test method and classification for the self-cleaning performances of coated glass surfaces.*

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard defines a test method to establish the self-cleaning performances for coatings on glass which utilize sun, rain or a combination of sun and rain to enhance the cleanliness of the glass.

The European Standard applies to class A coated glass as defined in EN 1096-1 and EN 1096-2 for use in outdoor building applications. The test is designed to be applicable for coatings on glass which use hydrophilic or photocatalytic active functionalities to enhance the cleanliness of the glass.

The test procedure does not specifically address the durability of the coating's self-cleaning functionality.

2 Normative references

The following referenced 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 1096-1, *Glass in building - Coated glass - Part 1: Definitions and classification*

EN ISO 4892-3:2013, *Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 4892-3:2013)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1096-1 and the following apply.

3.1
glass substrate
basic glass, special basic glass, chemically strengthened basic glass, thermally treated basic and special basic glass, laminated glass or laminated safety glass

3.2
coating
one or more thin solid layers of inorganic materials applied onto the surface of a glass substrate by various methods of deposition

Note 1 to entry: Methods of deposition are described in EN 1096–1.

3.3
glass with dual coating
glass substrates to which coatings have been applied on both sides

Note 1 to entry: The second coating should not necessarily be a self-cleaning coating.

3.4
coated glass
glass substrate to which has been applied a coating, in order to modify one or more of its properties