

**Glass in building - Coated glass - Part 3: Requirements
and test methods for class C and D coatings**

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NATIONAL FOREWORD

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English Version

Glass in building - Coated glass - Part 3: Requirements and test methods for class C and D coatings

Verre dans la construction - Verre à couche - Partie 3:
Exigences et méthodes d'essai pour les couches C et D

Glas im Bauwesen - Beschichtetes Glas - Teil 3:
Anforderungen an und Prüfverfahren für Beschichtungen
der Klassen C und D

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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.

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Foreword

This document (EN 1096-3:2012) 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of an identical text or by endorsement, at the latest by July 2012, and conflicting national standards shall be withdrawn at the latest by July 2012.

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 document supersedes EN 1096-3:2001.

The main changes compared to the previous edition are:

- reference to the future EN 1096-5, *Test method and classification for the Self-cleaning performances of coated glass surfaces*;
- the introduction of a method to deal with toughenable / heat strengthenable and to be toughened / to be heat strengthened coated glass, see Annex A.

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, 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 specifies requirements and a test method related to resistance to solar radiation for coated glass for use in buildings.

This test is aimed at evaluating if the exposure to solar radiation over an extended period of time produces any appreciable change in light transmittance and solar transmittance of the coated glass as well as a reduction of the infrared reflectance in the case of low emissivity coatings.

This European Standard applies to Class C and D coatings as defined in EN 1096-1 and used in insulating glass units.

2 Normative references

The following referenced documents are indispensable for the application 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 410, *Glass in Building — Determination of luminous and solar characteristics of glazing*

EN 572-1, *Glass in Building — Basic soda lime silicate glass products — Part 1: Definitions and general physical and mechanical properties*

EN 572-2, *Glass in Building — Basic soda lime silicate glass products — Part 2: Float glass*

EN 1096-1:2012, *Glass in Building — Coated glass — Part 1: Definitions and classification*

EN 1279 (all parts), *Glass in Building — Insulating glass units*

EN 1279-2:2002, *Glass in building — Insulating glass units — Part 2: Long term test method and requirements for moisture penetration*

EN 12150-1, *Glass in Building — Thermally toughened soda lime silicate safety glass — Part 1: Definitions and description*

EN 12898, *Glass in building — Determination of emissivity*

3 Terms and definitions

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

4 Requirements

The coated glass complying with this European Standard shall meet the requirements given in Table 1 as they relate to the characteristic resistance to solar radiation.