

EHITUSKLAAS. PINNATUD KLAAS. OSA 4:
TOOTESTANDARD

Glass in building - Coated glass - Part 4: Product
standard

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1096-4:2018 sisaldab Euroopa standardi EN 1096-4:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 1096-4:2018 consists of the English text of the European standard EN 1096-4:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.08.2018.	Date of Availability of the European standard is 22.08.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 81.040.20

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English Version

Glass in building - Coated glass - Part 4: Product standard

Verre dans la construction - Verre à couche - Partie 4:
Norme de produit

Glas im Bauwesen - Beschichtetes Glas - Teil 4:
Produktnorm

This European Standard was approved by CEN on 6 May 2018.

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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.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms, definitions and symbols	5
3.1 Terms and definitions	5
3.2 Symbols.....	6
4 Product description and characteristics	7
4.1 Product description.....	7
4.2 Determination of the characteristic's performances.....	7
4.2.1 Characteristic of coated glass	7
4.2.2 Determination of characteristics of coated glass	8
4.3 Characteristics other than listed in 4.2	11
5 Assessment and verification of constancy of performance – AVCP	11
5.1 General.....	11
5.2 Determination of the product type (see 5.1, 1)	12
5.2.1 General.....	12
5.2.2 Type testing of characteristic's performances	13
5.2.3 Test reports.....	13
5.2.4 Multiple lines/sites.....	13
5.3 Factory Production control (FPC)	13
5.3.1 General.....	13
5.3.2 Inspection of samples in accordance with a prescribed test plan (see 5.1, 2a).....	13
5.4 Initial inspection of factory and of factory production control (see 5.1, 2b)	14
5.5 Continuous surveillance and assessment of the factory production control (5.1, 2c).....	15
5.6 Procedure for modifications	16
5.7 Pre-production products (e.g. prototypes).....	16
6 Marking and/or labelling	16
6.1 General.....	16
6.2 Product marking.....	16
Annex A (normative) Factory production control	17
Annex B (informative) Tests for factory production control	25
Annex C (normative) Type testing, sampling and measurement of spectrophotometric and energy characteristics	27
Annex D (informative) Provisions for voluntary involvement of third party(ies)	29
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011	30
Bibliography	35

European foreword

This document (EN 1096-4:2018) 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 February 2019, and conflicting national standards shall be withdrawn at the latest by February 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 1096-4:2004.

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

For relationship with EU Regulation, see informative Annex ZA, which is an integral part of this document.

The main changes compared to the previous edition are the following:

- a) The standard has been revised to fulfil the requirements of the Regulation (EU) No 305/2011 (Construction Product Regulation), modified by Regulations (EU) No 157/2014, (EU) No 568/2014 and (EU) No 574/2014;
- b) The tolerance on emissivity is reduced to +0,01 for coated glass with a declared normal emissivity lower than 0,10;
- c) The solar factor, g , is listed within the spectrophotometric characteristics to be declared in the Declaration of Performances (DoP);
- d) The durability/conformity assessment is listed within the characteristics to be declared in the DoP;
- e) The mechanical resistance shall be given in the DoP by the characteristic bending strength of the glass substrate.

EN 1096, *Glass in building - Coated glass*, consists of the following parts:

- *Part 1: Definitions and classification*
- *Part 2: Requirements and test methods for class A, B and S coatings*
- *Part 3: Requirements and test methods for class C and D coatings*
- *Part 4: Product standard*
- *Part 5: Test method and classification for the Self-cleaning performances of coated glass surfaces*

This European Standard contains other aspects of importance for trade.

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.

1 Scope

This European Standard covers the assessment and evaluation of constancy of performance (AVCP) of coated glass for use in buildings.

NOTE For glass products with electrical wiring or connections for, e.g. alarm or heating purposes, other directives, e.g. Low Voltage Directive, may apply.

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 356, *Glass in building - Security glazing - Testing and classification of resistance against manual attack*

EN 410, *Glass in building - Determination of luminous and solar characteristics of glazing*

EN 673, *Glass in building - Determination of thermal transmittance (U value) - Calculation method*

EN 1063, *Glass in building - Security glazing - Testing and classification of resistance against bullet attack*

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

EN 1096-2:2012, *Glass in building - Coated glass - Part 2: Requirements and test methods for class A, B and S coatings*

EN 1096-3:2012, *Glass in building - Coated glass - Part 3: Requirements and test methods for class C and D coatings*

EN 1096-5, *Glass in building - Coated glass - Part 5 - Test method and classification for the self-cleaning performances of coated glass surfaces*

EN 12600, *Glass in building - Pendulum test - Impact test method and classification for flat glass*

EN 12758, *Glass in building - Glazing and airborne sound insulation - Product descriptions and determination of properties*

EN 12898, *Glass in building - Determination of the emissivity*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*

EN 13501-2, *Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services*

EN 13501-5, *Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests*

EN 13541, *Glass in building - Security glazing - Testing and classification of resistance against explosion pressure*

EN 15998, *Glass in building - Safety in case of fire, fire resistance - Glass testing methodology for the purpose of classification*

ISO 9385, *Glass and glass-ceramics — Knoop hardness test*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1096-1, EN 1096-2 and EN 1096-3 and the following apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1.1

factory production control

FPC

documented, permanent and internal control of production in a factory, in accordance with this standard

Note 1 to entry: See also Annexes A and B.

[SOURCE: Regulation (EU) No 305/2011]

3.1.2

product-type

set of representative performance levels or classes of a construction product, in relation to its essential characteristics, produced using a given combination of raw materials or other elements in a specific production process

[SOURCE: Regulation (EU) No 305/2011]

3.1.3

essential characteristic

characteristic of the construction product which relate to the basic requirements for construction works

Note 1 to entry: Basic requirements for construction work are given in the regulation (EU) No 305/2011, Annex I.

[SOURCE: Regulation (EU) No 305/2011]

3.1.4

performance of a construction product

performance related to the relevant essential characteristics, expressed by level or class, or in a description

[SOURCE: Regulation (EU) No 305/2011]

3.1.5

level

result of the assessment of the performance of a construction product in relation to its essential characteristics, expressed as a numerical value

[SOURCE: Regulation (EU) No 305/2011]