Glass in building - Painted glass for internal use - Part 1: Requirements

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NATIONAL FOREWORD

See Eesti standard EVS-EN 16477-1:2016 sisaldab Euroopa standardi EN 16477-1:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 16477-1:2016 consists of the English text of the European standard EN 16477-1:2016.
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 07.12.2016.	Date of Availability of the European standard is 07.12.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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Glass in building - Painted glass for internal use - Part 1: Requirements

Verre dans la construction - Verre laqué destiné à un usage à l'intérieur - Partie 1 : Exigences

Glas im Bauwesen - Farbiges Glas für den Innenbereich - Teil 1: Anforderungen

This European Standard was approved by CEN on 5 October 2016.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 16477-1:2016) 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of an identical text or by endorsement, at the latest by June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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1 Scope

This European Standard specifies minimum quality requirements (in respect of optical, visual and edge faults) and durability tests for painted glass for internal use in building.

This standard applies to testing of paints that can be used to produce painted glass. The test of durability are undertaken on soda lime silicate glass as being a representative substrate.

Painted glass that conforms to this standard, may have substrate as follows: basic glass, special basic glass, chemically strengthened basic glass, thermally treated basic and special basic glass, laminated glass or laminated safety glass.

The painted glass may be translucent, transparent or opaque and supplied in stock/standard sizes and as-cut finished sizes.

NOTE 1 Artistic products are excluded from the scope of this standard.

For painted glass used in aggressive and/or constantly high humidity atmospheres, e.g. horse riding halls, swimming pools, medical baths, saunas, etc. this standard is not applicable.

NOTE 2 Bathrooms and kitchens are not considered as constantly high humidity atmospheres.

This standard does not give requirements for framing, fixing or other support systems.

NOTE 3 Useful advice on these items is contained in the informative Annex C.

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

EN 572-8:2012+A1:2016, *Glass in building - Basic soda-lime silicate glass products - Part 8: Supplied and final cut sizes*

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

EN 1748-1-1, *Glass in building - Special basic products -Borosilicate glasses - Part 1-1: Definition and general physical and mechanical properties*

EN 1748-2-1, *Glass in building - Special basic products - Glass ceramics - Part 2-1 Definitions and general physical and mechanical properties*

EN 1863-1, *Glass in building - Heat strengthened soda lime silicate glass - Part 1: Definition and description*

EN 12150-1, *Glass in building - Thermally toughened soda lime silicate safety glass - Part 1: Definition and description*

EN 12337-1, *Glass in building - Chemically strengthened soda lime silicate glass - Part 1: Definition and description*

EN 13024-1, *Glass in building - Thermally toughened borosilicate safety glass - Part 1: Definition and description*

EN 14178-1, *Glass in building - Basic alkaline earth silicate glass products - Part 1: Float glass*

EN 14321-1, *Glass in building - Thermally toughened alkaline earth silicate safety glass - Part 1: Definition and description*

prEN 15681-1, *Glass in building - Basic alumino silicate glass products - Part 1: Definitions and general physical and mechanical properties*

EN 15682-1, *Glass in building - Heat soaked thermally toughened alkaline earth silicate safety glass - Part 1: Definition and description*

EN ISO 12543-1, *Glass in building - Laminated glass and laminated safety glass - Part 1: Definitions and description of component parts (ISO 12543-1)*

EN ISO 16474-2:2013, *Paints and varnishes - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 16474-2)*

EN ISO 11664-4, *Colorimetry - Part 4: CIE 1976 L*a*b* Colour space (ISO 11664-4)*

EN ISO 2409, *Paints and varnishes — Cross-cut test*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
painted glass
flat glass whose rear surface has been coated with a paint

3.2
paint
organic coating covering glass

3.3
uniform paint
paint which are uniform in colour and reflection in an area of minimum one square centimetre and where colour and reflection are not angle dependant from 0° to 45° from vertical

3.4
non-uniform paint
paint which are not uniform

Note 1 to entry: examples of non-uniform paint are paint containing metallic particles, phosphorescent paint, thermochromic paint, etc.

3.5
glass substrate
basic glass, special basic glass, chemically strengthened basic glass, thermally treated basic and special basic glass, laminated glass or laminated safety glass

3.6
jumbo sizes
glass delivered in the following sizes: