

Irish Standard I.S. EN 17416:2021

Glass in building - Assessment of release of dangerous substances - Determination of emissions into indoor air from glass products

 $\ensuremath{\mathbb C}$ CEN 2021 $\hfill No copying without NSAI permission except as permitted by copyright law.$

I.S. EN 17416:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on: EN 17416:2021 *Published:* 2021-03-24

This document was published			ICS number:
under the authority of the NSAI and comes into effect on:			13.040.20
			81.040.20
2021-04-11			
		NOTE: If b	lank see CEN/CENELEC cover page
NSAI	T +353 1 807 3800		Sales:
1 Swift Square,	F +353 1 807 3838		T +353 1 857 6730
Northwood, Santry	E standards@nsai.ie		F +353 1 857 6729
Dublin 9	W NSAI.ie		W standards.ie
		izh da śla NIŚla iśrała	

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 17416:2021 is the adopted Irish version of the European Document EN 17416:2021, Glass in building - Assessment of release of dangerous substances - Determination of emissions into indoor air from glass products

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

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

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

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online. I.S. EN 17416:2021

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 17416

March 2021

ICS 13.040.20; 81.040.20

English Version

Glass in building - Assessment of release of dangerous substances - Determination of emissions into indoor air from glass products

Verre dans la construction - Évaluation de l'émission de substances dangereuses - Détermination des émissions par les produits verriers dans l'air intérieur Glas im Bauwesen - Beurteilung der Freisetzung gefährlicher Stoffe - Bestimmung von Emissionen in die Innenraumluft aus Glasprodukten

This European Standard was approved by CEN on 8 February 2021.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Europ	ean foreword	3
Introd	uction	4
1	Scope	5
2	Normative references	5
3 3.1 3.2	Terms, definitions and abbreviations Terms and definitions Abbreviations	5
4 4.1	Intended conditions of use, emission scenarios and European reference room Intended conditions of use and emission scenario	6
4.1.1 4.1.2 4.1.3	Product description Mirrors, painted glass, and adhesive backed polymeric filmed glass Laminated glass	6
4.1.4 4.2	Insulating glass unit Reference room and emission scenario	8
4.2.1 4.2.2	General Dimensions and loading factors in the reference room	8
5 5.1	Product sampling and transport to the laboratory General	8
5.2 5.2.1	Preparation of a sampling plan and sampling strategy General	9
5.2.2 5.2.3 5.2.4	As per EN 16516. Sampling approach Population and sub-population Size of samples	9
5.2.5	Sampling location and moment	.0
6 6.1	Handling of product samples in the laboratory1 Preparation of the test specimen1	.0 .0
Annex	A (informative) Glass products not covered by this standard1	2
Biblio	graphy1	4

European foreword

This document (EN 17416:2021) 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 September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document provides specific rules for flat glass products used in buildings to support the assessment of release of dangerous substances into indoor air.

This document aims at complementing the general rules established in EN 16516:2017+A1:2020, by providing additional detailed rules on technical aspects specific to the glass products.

1 Scope

This document provides specific rules for the assessment of the release on dangerous substances from glass products into indoor air of buildings in complement to the horizontal rules given in EN 16516.

This document addresses specifically products as mentioned in TC 129 Mandate - M135 Amendment 1 EN (2012), i.e. products covered by the following European Standards: EN 1036-2 and EN 16477-2¹. However, this document can also be applied to other glass products containing volatile organic compounds (VOC) such as: EN 1279-5, EN 15755-1 and EN 14449. Glass products that do not contain organic compounds are not in the scope of this document (see Annex A).

This document addresses the release of dangerous substances into indoor air from construction products, although it can also be applied to glass products used in other applications such as furniture.

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 16516:2017+A1:2020, Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air

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 12543-2, Glass in building - Laminated glass and laminated safety glass - Part 2: Laminated safety glass (ISO 12543-2)

EN ISO 12543-3, Glass in building - Laminated glass and laminated safety glass - Part 3: Laminated glass (ISO 12543-3)

EN ISO 16000-11, Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens (ISO 16000-11)

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16516 apply.

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

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

3.2 Abbreviations

For the purposes of this document, the following abbreviations apply.

VOC volatile organic compound



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation