STN	Železnice Zasklenie interiéru koľajových vozidiel	STN EN 17530+A1
		28 7218

Railway applications - Interior glazing for rail vehicles

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/25

Obsahuje: EN 17530:2022+A1:2024

Oznámením tejto normy sa ruší STN EN 17530 (28 7218) zo septembra 2022

140210

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 17530:2022+A1

December 2024

ICS 45.060.01

Supersedes EN 17530:2022

English Version

Railway applications - Interior glazing for rail vehicles

Applications ferroviaires - Vitrage intérieur pour véhicules ferroviaires

Bahnanwendungen - Innenverglasung für Schienenfahrzeuge

This European Standard was approved by CEN on 27 March 2022 and includes Amendment 1 approved by CEN on 2 September 2024.

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, Türkiye 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

EN 17530:2022+A1:2024 (E)

Contents European foreword		Page
		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	
4 4.1	Dimensions and tolerances Monolithic glass	
4.2	Laminated glass	
4.3	Flatness	
5	Functional requirements	8
5.1	Interior glazing test requirements	
5.1.1	General	
5.1.2 5.1.3	Type tests	
5.1.3 5.2	Routine tests Marking	
5.2.1	Interior glazing	
5.2.2	Display cover glazing	
5.3	Service requirements	
5.4	Storage of finished interior glazing	
5.5 5.5.1	Edge finishing	
5.5.2	General Monolithic glass	
5.5.3	Laminated glass	
6	Visual and optical requirements	12
6.1	Appearance defects	
6.1.1	General	
6.1.2	Visual inspection procedure for appearance defects	
6.1.3 6.1.4	Definition and classification of defects Defect acceptance criteria	
6.2	Optical characteristics	
6.2.1	Optical distortion	
6.2.2	Transmittance	17
7	Mechanical characteristics	17
7.1	Impact resistance	
7.1.1	Hard object impact test requirements	
7.1.2	Soft body impact test requirements	
7.1.3 7.2	Repetition of tests in case of construction changesFragmentation	
7.2.1	General	
7.2.2	Fragmentation test	
8	Performance in service	21
8.1	Resistance against ageing for laminated glass	
8.1.1	Resistance to ultraviolet radiation test	21
8.1.2	Resistance to high temperature test	
8.1.3	Resistance to humidity test	22

EN 17530:2022+A1:2024 (E)

Annex A (normative) Test samples (including mounting)		23
A.1	Test sample properties	23
A.2	Test sample for optical tests	23
A.3	Test sample for mechanical tests	23
A.4	Test sample for ageing tests	23
Anne	ex B (informative) Visual inspection procedure with a luminous board	24
Anne	ex C (normative) Summary of testing requirements	26
Bibli	ography	27

EN 17530:2022+A1:2024 (E)

European foreword

This document (EN 17530:2022+A1:2024) has been prepared by Technical Committee CEN/TC 256 "Railway applications", the secretariat of which is held by DIN.

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 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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 includes Amendment 1, approved by CEN on 2 September 2024.

This document supersedes A EN 17530:2022 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags 🗗 街.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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.

1 Scope

[A] This document specifies the functional, performance, and quality requirements for the interior glazing of rail vehicles including type testing, routine testing, and inspection methods for high speed rail, heavy rail, urban rail vehicles including metro and tram applications.

This document is also applicable for tram vehicles. (A)

Determination of the size, shape, orientation and position of interior glazing is outside the scope of this document.

This document does not specify requirements for the interfaces between the interior glazing and the vehicle. Accordingly, this document does not address issues relating to installation and structural integrity.

This document does not apply to interior glazing with a surface less than 0,02 m² and also emergency device casings (e.g. cover sheets for emergency hammers, passenger alarm systems, etc).

(A) This document does not apply to materials other than glazing materials.

For safety reasons, where the use of a specific type of glazing is specified that is not covered by this document (e.g. bullet proof glazing, fire proof glazing, etc.), this document does not 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.

(A) EN 572-2:2012, Glass in building - Basic soda lime silicate glass products - Part 2: Float glass

EN 12150-1:2015+A1:2019, Glass in building - Thermally toughened soda lime silicate safety glass - Part 1: Definition and description

EN 15152, Railway applications - Windscreens for trains

EN 16584-1, Railway applications - Design for PRM use - General requirements - Part 1: Contrast

EN 45545-1, Railway applications - Fire protection on railway vehicles - Part 1: General

EN 45545-2, Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components

EN ISO 12543-5:2021, Glass in building - Laminated glass and laminated safety glass - Part 5: Dimensions and edge finishing (ISO 12543-5:2021)

ISO 3538, Road vehicles — Safety glazing materials — Test methods for optical properties

ISO 3917:2016, Road vehicles — Safety glazing materials — Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering

ISO 7892, Vertical building elements — Impact resistance tests — Impact bodies and general test procedures \bigcirc

koniec náhľadu – text ďalej pokračuje v platenej verzii STN