SLOVENSKI STANDARD
SIST EN 16613:2025

01-september-2025

Steklo v gradbeništvu - Lepljeno steklo in lepljeno varnostno steklo - Določevanje mehanskih lastnosti vmesnih slojev

Glass in building - Laminated glass and laminated safety glass - Determination of interlayer viscoelastic properties

Glas im Bauwesen - Verbundglas und Verbundsicherheitsglas - Bestimmung der viskoelastischen Eigenschaften von Zwischenschichten

Verre dans la construction - Verre feuilleté et verre feuilleté de sécurité - Détermination des propriétés viscoélastiques des intercalaires

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ICS:

81.040.20 Steklo v gradbeništvu Glass in building

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SIST EN 16613:2025

EUROPEAN STANDARD
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English Version

Glass in building - Laminated glass and laminated safety glass - Determination of interlayer viscoelastic properties

Verre dans la construction - Verre feuilleté et verre feuilleté de sécurité - Détermination des propriétés viscoélastiques des intercalaires

Glas im Bauwesen - Verbundglas und Verbundsicherheitsglas - Bestimmung der viskoelastischen Eigenschaften von Zwischenschichten

This European Standard was approved by CEN on 7 April 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (EN 16613:2025) 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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.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 supersedes EN 16613:2019.

EN 16613:2025 includes the following significant technical changes with respect to EN 16613:2019:

a) The test procedure has been changed from tensile vibration to parallel-plate oscillation.

b) A more detailed description of the test procedure is provided comprising four subsequent steps.

c) Annex A has been reviewed and is used for non-isotropic and multilayer interlayer materials as well as Step 4 in the main test procedure. It provides the methods to calculate the effective thickness, shear transfer coefficient ω, the coupling factor η and the interlayer shear modulus G_{int}.

d) Annex C details the procedure to obtain the master curve and the Prony parameters.

e) The new Annex D will help determine mechanical properties used for calculation of noise reduction.

f) Annex E provides guidance for a precise geometrical assessment of a deflected specimen.

g) Interlayer stiffness family classification criteria have been removed.

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