

STN	Stanovenie pevnosti výplní Skúšobné metódy a požiadavky	STN EN 17146 74 6270
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Determination of the strength of infill supports - Test method and requirements

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. 04/19

Obsahuje: EN 17146:2018

128471

EUROPEAN STANDARD

EN 17146

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2018

ICS 91.060.10

English Version

Determination of the strength of infill supports - Test method and requirements

Détermination de la résistance des supports de vitrage
(panneaux de remplissage) - Méthode d'essai et
exigences

Bestimmung der Festigkeit von Auflagern für
Ausfachungen - Prüfverfahren und Anforderungen

This European Standard was approved by CEN on 5 November 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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EN 17146:2018 (E)

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European foreword

This document (EN 17146:2018) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.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 standard has been developed by CEN/TC 33/WG 6 Curtain walling for the purpose of curtain walling systems, but can be used also for similar constructions and fenestration products.

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.

EN 17146:2018 (E)**1 Scope**

This document specifies test methods for the determination of the bearing capacity (ultimate limit state and serviceability limit state) of infill support which cannot be calculated in accordance with current codes or conventional calculations based upon the strength of the materials or to compare the calculation when necessary.

Three different types of infill (glass) supports are dealt in this standard:

- The cantilever infill (glass) supports, see Figure 1 (a);
- The cruciform infill (glass) supports only fixed to the mullion, see Figure 1 (b);
- Corner infill (glass) supports only fixed to the mullion, see Figure 1 (c).

The test method is intended for the assessment of cantilever infill (glass) supports that have not been tested according to EN 16758 (see Figure 9). The results of the test method can only be interpreted when incorporated with the results from a test in accordance with EN 16758.

It is essential that cruciform and corner infill (glass) supports only fixed to the mullion are tested in accordance with this standard.

The infill (glass) supports connected to the mullion and the transom together are considered as a part of sheared connection and are covered by EN 16758.

Where the mechanical performances of the infill (glass) support is already assessed in accordance with the provisions described in EN 13830, additional information with respect to mechanical performance of the infill (glass) support and direct applications can be determined with this standard.

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 12519, *Windows and pedestrian doors — Terminology*

EN 13119, *Curtain walling — Terminology*

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