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Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors - Classification, requirements and test methods - Part 2: PVC-U profiles covered with foils bonded with adhesives

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 12608-2:2023 sisaldab Euroopa standardi EN 12608-2:2023 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.10.2023.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 12608-2:2023 consists of the English text of the European standard EN 12608-2:2023.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 11.10.2023.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

EN 12608-2

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ICS 83.140.99; 91.060.50

English Version

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the
fabrication of windows and doors - Classification,
requirements and test methods - Part 2: PVC-U profiles
covered with foils bonded with adhesives

Profils de poly(chlorure de vinyle) non plastifié (PVC-U) pour la fabrication des fenêtres et des portes - Classification, exigences et méthodes d'essai - Partie 2 : Profils en PVC-U plaxés avec des films collés

Profile aus weichmacherfreiem Polyvinylchlorid (PVC-U) zur Herstellung von Fenstern und Türen - Klassifizierung, Anforderungen und Prüfverfahren - Teil 2: PVC-U-Profile mit durch Klebstoff kaschierte Folien

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

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

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European foreword

This document (EN 12608-2:2023) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

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 April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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.

The EN 12608 series, *Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors — Classification, requirements and test methods*, currently consists of the following parts:

- *Part 1: Non-coated PVC-U profiles with light coloured surfaces*
- *Part 2: PVC-U profiles covered with foils bonded with adhesives*
- *Part 3: PVC-U profiles covered with paint (in preparation)*
- *Part 4: PVC-U profiles with thermo-laminated foils (in preparation)*
- *Part 5: PVC-U profiles with coextruded coloured top-layer (in preparation)*

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, Türkiye and the United Kingdom.

1 Scope

This document specifies the classifications, requirements and test methods for unplasticized poly(vinyl chloride) (PVC-U) profiles covered with foils designed for external uses bonded with adhesives which are intended to be used for the fabrication of windows and doors.

NOTE 1 For editorial reasons, in this document, the term “window” is used for window/door.

NOTE 2 For the purpose of production control, test methods other than those specified in this document can be used.

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 410, *Glass in building — Determination of luminous and solar characteristics of glazing*

EN 478, *Plastics — Poly(vinyl chloride) (PVC) based profiles — Determination of the appearance after exposure at 150 °C*

EN 479, *Plastics — Poly(vinyl chloride) (PVC) based profiles — Determination of heat reversion*

EN 513, *Plastics — Poly(vinylchloride) (PVC) based profiles — Determination of the resistance to artificial weathering*

EN 514, *Plastics — Poly(vinyl chloride) (PVC) based profiles — Determination of the strength of welded corners and T-joints*

EN 12608-1:2016+A1:2020, *Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors — Classification, requirements and test methods — Part 1: Non-coated PVC-U profiles with light coloured surfaces*

EN 17271, *Plastics — Poly(vinyl chloride) (PVC) based profiles — Determination of the peel strength of profiles laminated with foils*

EN 17508, *Plastics — Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors — Terminology of PVC based materials*

EN 20105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour (ISO 105-A02)*

EN ISO 105-A01:2010, *Textiles — Tests for colour fastness — Part A01: General principles of testing (ISO 105-A01:2010)*

EN ISO 178, *Plastics — Determination of flexural properties (ISO 178)*

EN ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test (ISO 179-1)*

EN ISO 306, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST) (ISO 306)*

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

EN ISO 4892-2:2013, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2:2013)*

EN ISO 8256, *Plastics — Determination of tensile-impact strength (ISO 8256)*

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

EN ISO 21306-2:2019, *Plastics — Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties (ISO 21306-2:2019)*

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 12608-1 (except for material definitions), EN 17508 and the following apply.

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

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

3.1

base profile

profile without covering foil intended for lamination

3.2

laminated profile

profile covered with foil

3.3

foil

plastics layer for external uses intended to cover surfaces of a base profile

Note 1 to entry: Foil can be lacquered or not.

3.4

base layer of the foil

layer of the foil with or without further surface treatment which is in contact with the adhesive system

3.5

adhesive system

material or combination of materials which assures the adhesion of the foil on the base profile

EXAMPLES Primer and glue; primerless treatment of the surface (e.g. plasma treatment) and glue.

4 Classifications

4.1 General

The selection of appropriate classes necessary to fulfil national requirements may be given in the national foreword of this document.