ICS 83.140.99, 91.060.50 SLOVENSKÁ TECHNICKÁ NORMA Júl 2016

STN	**Profily z nemäkčeného polyvinylchloridu (PVC-U) na výrobu okien a dverí. Klasifikácia, požiadavky a skúšobné metódy. Časť 1: Nepovlakované PVC - U profily so svetlými povrchmi.**	**STN EN 12608-1** 64 3222

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

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. 06/16

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ICS 83.140.99; 91.060.50

Supersedes EN 12608:2003

English Version

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

Profilés de poly(chlorure de vinyle) non plastifié (PVC-U) pour la fabrication des fenêtres et des portes - Classification, exigences et méthodes d'essai - Partie 1: Profilés en PVC-U non revêtus avec des faces de teinte claire

Profile aus weichmacherfreiem Polyvinylchlorid (PVC-U) zur Herstellung von Fenstern und Türen - Klassifizierung, Anforderungen und Prüfverfahren - Teil 1: Nicht beschichtete PVC-U Profile mit hellen Oberflächen

This European Standard was approved by CEN on 15 January 2016.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 12608-1:2016) 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by March 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12608:2003.

The major modifications to the previous edition are:

— Change in structure of definitions (general, profile, geometrical and material);

— Review of definitions of own reprocessed (previously reprocessable) material (3.4.5) and external reprocessed (previously reprocessable) material (3.4.6);

— Including a new material (non-UV resistant virgin material);

— Review of Table 1, which defines the classification of climatic zones in Europe; (correction of a mistake in EN12608:2003);

— Addition of a class (no performance determined) for the classification of main profiles according to the resistance to impact by falling mass (Table 2);

— Complete review of 5.1, giving the requirements for materials, establishing the distinction between UV resistant virgin material (5.1.1), non UV-resistant virgin material (5.1.2) and reprocessed (previously reprocessable), recycled (previously recyclable) materials and non-UV resistant virgin materials (5.1.3) with the addition of Table 4 which defines the uses allowed according to the type of material);

— Review of the test of Charpy impact resistance of main profiles (5.8); Introduction of dependence on classes of wall thickness;

— Review of the methods to determine the colorimetric co-ordinates (6.5);

— Addition of new subclause 6.4 for the determination of the thickness of a co-extruded layer;

— Addition of a requirement for individual values for the Vicat softening temperature (A.4.1);

— Addition of a requirement for individual values for the flexural modulus of elasticity (A.4.2);

— Addition of a requirement for individual values for the tensile impact strength (A.4.3);

— Deletion of the Charpy impact resistance from Annex A (material characteristics);

— Editorial review of the whole document and updating of normative references.

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

— *Part 1: Non-coated PVC-U profiles with light coloured surfaces*

— *Parts 2: PVC-U profiles with laminated foils* (in preparation)

— *Parts 3: PVC-U profiles with coextruded coloured top-layer* (in preparation)

— *Parts 4: PVC-U profiles with lacquered-coating* (in preparation)

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the classifications, requirements and test methods for non-coated unplasticized poly(vinyl chloride) (PVC-U) profiles with light coloured surfaces intended to be used for the fabrication of windows and doors.

It is applicable to PVC-U profiles with the colorimetric co-ordinates measured on the visible surfaces, as follows:

— $L^* \geq 82$ (chromaticity co-ordinate Y ≥ 60),

— $-2{,}5 \leq a^* \leq 5$,

— $-5 \leq b^* \leq 15$.

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

NOTE 2 Profiles made from PVC-U materials with reinforcements (e.g. glass fibres) are not part of this scope.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 477, *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Determination of the resistance to impact of main profiles by falling mass*

EN 478, *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Appearance after exposure at 150 °C - Test method*

EN 479, *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Determination of heat reversion*

EN 513, *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Determination of the resistance to artificial weathering*

EN 514, *Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Determination of the strength of welded corners and T-joints*

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 1163-2:1999, *Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 1163-2:1995)*

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

EN ISO 11664-1, *Colorimetry - Part 1: CIE standard colorimetric observers (ISO 11664-1)*

EN ISO 11664-2, *Colorimetry - Part 2: CIE standard illuminants (ISO 11664-2)*

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

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

ISO 18314-1, *Analytical colorimetry — Part 1: Practical colour measurement*