

STN	Plasty Profily z nemäkčeného polyvinylchloridu (PVC-U) na stavebné použitie Časť 1: Označovanie PVC-U profilov	STN EN 13245-1 64 3229
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Plastics - Unplasticized poly(vinyl chloride) (PVC-U) profiles for building applications - Part 1: Designation of PVC-U profiles

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

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English Version

Plastics - Unplasticized poly(vinyl chloride) (PVC-U) profiles for building applications - Part 1: Designation of PVC-U profiles

Plastiques - Profilés en poly(chlorure de vinyle) non
plastifié (PVC-U) pour applications dans le bâtiment -
Partie 1 : Désignation des profilés en PVC-U

Kunststoffe - Profile aus weichmacherfreiem
Polyvinylchlorid (PVC-U) für die Anwendung im
Bauwesen - Teil 1: Bezeichnung von Profilen aus PVC-U

This European Standard was approved by CEN on 26 October 2025.

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

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EN 13245-1:2025 (E)

Contents	Page
European foreword.....	3
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	6
3.2 Type of profile.....	7
4 Designation of PVC-U profiles.....	8
5 Codification system for Data block 3 to Data block 5.....	8
5.1 Vicat softening temperature (Data block 3).....	8
5.2 Modulus of elasticity in flexure (Data block 3).....	9
5.3 Nominal linear mass (Data block 4).....	9
5.4 Heat reversion at 100 °C (Data block 4).....	10
5.5 Impact resistance (Data block 4).....	10
5.6 Durability (Data block 5).....	10
5.6.1 General.....	10
5.6.2 Test methods for ageing.....	11
5.6.3 Methods for assessing of ageing.....	12
5.6.4 Codification for properties after ageing.....	12
6 Required characteristics for Type 3, Type 4 and Type 5 profiles.....	14
7 Optional characteristics.....	15
7.1 Resistance to staining.....	15
7.2 Application and appearance of the surface finishing (only for Type 3, Type 4 and Type 5 profiles).....	15
7.2.1 General.....	15
7.2.2 Single colour profiles.....	15
7.2.3 Non-uniform colour and texture profiles.....	15
7.2.4 Gloss.....	15
8 Example of the designation of a PVC-U profile.....	16
9 Use of rPVC-U or IRM.....	16
10 Design for recycling.....	16
Annex A (normative) Determination of the linear mass.....	17
Annex B (normative) Determination of the impact resistance.....	18
Annex C (normative) Determination of peel strength using a constant-load tensile test.....	21
Bibliography.....	24

European foreword

This document (EN 13245-1:2025) 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 June 2026, and conflicting national standards shall be withdrawn at the latest by June 2026.

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 13245-1:2010.

EN 13245-1:2025 includes the following significant technical changes with respect to EN 13245-1:2010:

- Scope has been clarified;
- Normative references have been updated;
- Terms and definitions have been updated and reference to EN 17410, EN 17508 and EN 17615 has been added;
- Printing process and Type 5 profile, “profile as Type 1 or Type 2 covered with print”, have been added and the whole document has been updated accordingly;
- Peel test method according to EN 17271 for Type 3 profiles has been added and the whole document has been updated accordingly;
- Clause 9 has been modified to introduce new terms from EN 17508 and its title has been changed accordingly;
- New Clause 10, “Design for recycling” has been added;
- Annex C was modified with a new peel strength apparatus;
- Bibliography has been updated.

The EN 13245 series, under the general title *Plastics – Unplasticized poly(vinyl chloride) (PVC-U) profiles for building applications*, consists of the following parts:

- *Part 1: Designation of PVC-U profiles*
- *Part 2: PVC-U profiles and PVC-UE profiles for internal and external wall and ceiling finishes*
- *Part 3: Designation of PVC-UE profiles*

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

EN 13245-1:2025 (E)

Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

1 Scope

This document establishes a system of designation for profiles made of unplasticized poly(vinyl chloride) (PVC-U) intended to be used for building applications. This system is intended to be used in product specification after the application is specified.

NOTE It is intended to use this system for the designation of PVC-U profiles for information related to technical literature of the manufacturer, not for the marking of the products.

This part is applicable to PVC-U profiles of any colour, obtained by a mono-extrusion or a co-extrusion process, with or without surface finishing (e.g. foil, paint or print).

This document defines minimum requirements for the surface finishing of PVC-U profiles.

Profiles for the management of electrical power cables, communication cables and power track systems used for the distribution of electrical power, profiles for windows or doors and profiles for guttering are not covered by this document¹.

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 438-2:2016+A1:2018, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (usually called Laminates) — Part 2: Determination of properties*

EN 477, *Plastics — Poly(vinyl chloride) (PVC) based profiles — Determination of the resistance to impact of profiles by falling mass*

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(vinyl chloride) (PVC) based profiles — Determination of the resistance to artificial weathering*

EN 12720, *Furniture — Assessment of surface resistance to cold liquids*

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

EN 17410, *Plastics — Controlled loop recycling of PVC-U profiles from windows and doors*

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

EN 17615, *Plastics — Environmental Aspects — Vocabulary*

¹ Profiles that are excluded are in the scopes of standards prepared by CEN/TC 249/WG 21, CENELEC/TC 213 or CEN/TC 128.

EN 13245-1:2025 (E)

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

EN ISO 472, *Plastics — Vocabulary (ISO 472)*

EN ISO 877-2, *Plastics — Methods of exposure to solar radiation — Part 2: Direct weathering and exposure behind window glass (ISO 877-2)*

EN ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics (ISO 1043-1)*

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

EN ISO 2813, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85° (ISO 2813)*

EN ISO 4624, *Paints and varnishes — Pull-off test for adhesion (ISO 4624)*

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

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

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

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

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