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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

June 2024

ICS 83.140.99

Will supersede EN 13245-1:2010

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 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 249.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 13245-1:2024) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

This document is currently submitted to CEN Enquiry.

This document will supersede EN 13245-1:2010.

EN 13245, 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*

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 part is applicable to light coloured and coloured PVC-U profiles, obtained by a mono-extrusion or a co-extrusion process, with or without surface finishing (e.g. laminated foil, paint, printing process).

It specifies test methods and test parameters.

This method of designation is intended to be used in product specification when the application is specified.

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.

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

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 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*

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

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 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)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17410, EN 17508, EN 17615, EN ISO 472, EN ISO 1043-1 and the following apply.

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

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

3.1

PVC-U profile

profile made of unplasticized poly(vinyl chloride) (PVC-U) material

Note 1 to entry: It applies to profiles made of non-cellular material as opposed to cellular material.

3.2

Type of profile