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Interested committees:

Title: BS EN 438-9 Draft High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates). Part 9: Classification and specifications for alternative core laminates.

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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.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

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.	

High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates) - Part 9: Classification and specifications for alternative core laminates

Dekorative Hochdruck-Schichtpressstoffplatten (HPL) - Platten auf Basis härtbarer Harze (Schichtpressstoffe) - Teil 9: Klassifizierung und Spezifikationen für Schichtpressstoffe mit alternativem Kernaufbau

Stratifiés décoratifs haute pression (HPL) - Plaques à base de résines thermodurcissables (communément appelées stratifiés) - Partie 9: Classification et spécifications relatives aux stratifiés avec autres types d'âmes

ICS: 83.140.20

Contents

Page

European foreword	3
1 Scope	4
2 Normative references	4
3 Terms, definitions, symbols and abbreviations	4
3.1 Terms and definitions	4
3.2 Symbols	5
4 Material types and classification system	5
5 Requirements	6
5.1 Compliance	6
5.2 Inspection requirements	6
5.2.1 General	6
5.2.2 Colour and pattern	6
5.2.3 Surface finish	6
5.2.4 Reverse side	6
5.2.5 Visual inspection	6
5.3 Dimensional tolerance requirements	7
5.3.1 Dimensional tolerance requirements for coloured core layer laminates	7
5.3.2 Dimensional tolerances requirements for metal reinforced core layer laminates	8
5.4 Test requirements	9
5.4.1 General requirements for coloured core layer laminates	9
5.4.2 General requirements for metal reinforced core layer laminates	11
5.4.3 Reaction to fire	13
Annex A (informative) Information on reaction to fire	14
Bibliography	15

European foreword

This document (prEN 438-9) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 438-9:2017.

The following technical changes have been made in comparison to EN 438-9:2017:

- change the density requirements on coloured core HPL;
- align its requirements with other parts in the EN 438-series.

EN 438, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (usually called laminates)*, consists of the following parts:

- *Part 1: Introduction and general information*
- *Part 2: Determination of properties*
- *Part 3: Classification and specifications for laminates less than 2 mm thick intended for bonding to supporting substrates*
- *Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater*
- *Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates*
- *Part 6: Classification and specifications for exterior-grade Compact laminates of thickness 2 mm and greater*
- *Part 7: Compact laminate and HPL composite panels for internal and external wall and ceiling finishes*
- *Part 8: Classification and specifications for design laminates*
- *Part 9: Classification and specifications for alternative core laminates*

1 Scope

This document specifies performance requirements for alternative core laminates intended for interior use, the core layer compositions of which are not covered by EN 438-3 [1], EN 438-4 [2], EN 438-5 [3], EN 438-6 [4] and EN 438-8 [5]. The core layer types (coloured core layer and metal reinforced core layer) are defined in this part of EN 438.

EN 438-2 specifies the test methods relevant to this document.

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

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

EN ISO 1183-1, *Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1)*

EN ISO 12572, *Hygrothermal performance of building materials and products - Determination of water vapour transmission properties - Cup method (ISO 12572)*

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

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology 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/>

3.1.1

high-pressure decorative alternative core laminate(s)
alternative core laminate(s)

HPL

sheet(s) consisting of decorative surface layer(s) and alternative core layers bonded together by an high pressure process

Note 1 to entry: Typical values for the high pressure process are a temperature of ≥ 120 °C and a pressure of ≥ 5 MPa.

3.1.2

surface layer

upper decorative layer consisting in one or more sheets of fibrous material (usually paper) impregnated with aminoplastic thermosetting resins (usually melamine based resins)