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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 438-7:2005

ICS 83.140.20

HIGH-PRESSURE DECORATIVE LAMINATES (HPL) - SHEETS BASED ON THERMOSETTING RESINS (USUALLY CALLED LAMINATES) - PART 7: COMPACT LAMINATE AND HPL COMPOSITE PANELS FOR INTERNAL AND EXTERNAL WALL AND CEILING FINISHES

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 438-7

January 2005

ICS 83.140.20

Supersedes EN 438-1:1991, EN 438-2:1991

English version

High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 7: Compact laminate and HPL composite panels for internal and external wall and ceiling finishes

Stratifiés décoratifs haute pression (HPL) - Plaques à base de résines thermodurcissables (communément appelées stratifiés) - Partie 7 : Panneaux stratifiés compacts et composites HPL pour finitions des murs et plafonds intérieurs et extérieurs

Dekorative Hochdruck-Schichtpressstoffplatten (HPL) - Platten auf Basis härtbarer Harze (Schichtpressstoffe) - Teil 7: Kompaktplatten und HPL-Mehrschicht-Verbundplatten für Wand- und Deckenbekleidungen für Innen- und Außenanwendung

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Foreword

This document (EN 438-7:2005) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by July 2005, and conflicting national standards shall be withdrawn at the latest by July 2005.

This document supersedes EN 438-1:1991 and EN 438-2:1991.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard is a revision of EN 438:1991 and consists of seven 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.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

This document specifies the health, safety and energy saving requirements for:

- Compact laminate panels/sidings for interior wall and ceiling finishes (including suspended ceilings);
- HPL composite panels/sidings for interior wall and ceiling finishes (including suspended ceilings);
- Compact laminate panels/sidings for exterior wall and ceiling finishes (including suspended ceilings);
- HPL composite panels/sidings for exterior wall and ceiling finishes (including suspended ceilings).

It also specifies methods for the evaluation of conformity of the product to the requirements, and includes requirements for marking. It covers only the HPL panels for non-structural applications, and does not cover fixing systems.

The products are intended for use as wall and ceiling finishes for internal and external applications according to the manufacturer's specifications.

The scope of this document does not cover:

a) overlaid or veneered wood-based panels where the overlay/veneer is not HPL;

b) HPL-surfaced wood-based panels intended for use as structural components. These products are covered by EN 13986 (wood-based panels for use in construction).

This document covers only characteristics related to health, safety and energy-saving. All other characteristics are covered in separate European Standards for HPL products (see Annex B).

2 Normative references

The following referenced documents are indispensable for the application 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 438-1:2005, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates) — Part 1: Introduction and general information.*

EN 438-2:2005, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates) — Part 2: Determination of properties.*

EN 438-3, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates) — Part 3: Classification and specifications for laminates less than 2 mm thick intended for bonding to supporting substrates.*

EN 438-4:2005, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates) — Part 4: Classification and specifications for Compact laminates of thickness 2 mm and greater.*

EN 438-6:2005, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates) — Part 6: Classification and specifications for Exterior-grade Compact laminates of thickness 2 mm and greater.*

EN 717-1, *Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the chamber method.*

EN 717-2, *Wood-based panels — Determination of formaldehyde release — Part 2: Formaldehyde release by the gas analysis method.*

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