



The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

NSAI/... xxx: A National adoption of a Technical Regulation (TR), Technical Specification (TS), CEN and/or CENELEC Workshop Agreement (CWA).

I.S. EN 12369-1:2025 V2.00 was published under the authority of the NSAI and came into effect on: 2025-09-18

Consisting of:	DAV	Version	Published	Withdrawn*
I.S. EN 12369-1:2025	2025-09-17	2.00	2025-09-18	

Replaces:

I.S. EN 12369-1:2001	All versions
----------------------	--------------

*Dates in the future are planned withdrawal dates

DAV = Date of Availability of publication from CEN/CENELEC

NOTE 1: Versions relate to the different elements assembled for any publication based on the edition issued by CEN/CENELEC. Publications prior to 2023-11-27 do not contain version history but if you need any more information please contact info@standards.ie.

NOTE 2: The date of any NSAI previous adoptions may not match the date of its original CEN/CENELEC document.

ICS number(s): 79.060.20

NSAI
1 Swift Square
Northwood, Santry
Dublin 9
D09 A0E4
+353 1 807 3800
standards@nsai.ie
NSAI.ie

Sales
+353 1 857 6730
Standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 12369-1:2025 V2.00 is the version of the NSAI adopted European document EN 12369-1:2025, *Wood-based panels - Characteristic values for structural design - Part 1: OSB, particleboards and fibreboards*, including any Corrections, Amendments etc. to EN 12369-1:2025 listed on page(s) II.

This normative document by CEN/CENELEC the elaboration of which includes a public enquiry, followed by a Formal Vote of CEN/CENELEC national members and final ratification. This European Standard is published as an identical national standard and every conflicting national standard will be withdrawn. The content of a European Standard does not conflict with the content of any other EN (and HD for CENELEC).

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Conformance with this document does not of its self confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page intentionally left blank

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12369-1

September 2025

ICS 79.060.20

Supersedes EN 12369-1:2001

English Version

Wood-based panels - Characteristic values for structural
design - Part 1: OSB, particleboards and fibreboards

Panneaux à base de bois - Valeurs caractéristiques
pour la conception des structures - Partie 1: OSB,
panneaux de particules et panneaux de fibres

Holzwerkstoffe - Charakteristische Werte für die
Berechnung und Bemessung von Holzbauwerken - Teil
1: OSB, Spanplatten und Faserplatten

This European Standard was approved by CEN on 6 July 2025.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

	Page
European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms, definitions and symbols	4
3.1 Terms and definitions.....	4
3.1.1 Characteristic values	5
3.1.2 Service classes.....	5
3.2 Symbols	6
3.2.1 Main symbols.....	6
3.2.2 Subscripts	6
4 General.....	7
5 Characteristic values	7
5.1 General.....	7
5.2 OSB (EN 300)	7
5.2.1 General.....	7
5.3 Particleboards (EN 312)	11
5.3.1 General.....	11
5.4 Fibreboards (EN 622-2 and EN 622-3)	19
5.4.1 General.....	19
5.5 MDF (EN 622-5)	23
5.5.1 General.....	23
Annex A (informative) Format for the presentation of the characteristic values	30
Bibliography	32

European foreword

This document (EN 12369-1:2025) has been prepared by Technical Committee CEN/TC 112 "Wood-based panels", the secretariat of which is held by DIN.

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 March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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 12369-1:2001.

EN 12369-1:2025 includes the following significant technical changes with respect to EN 12369-1:2001:

- MDF.RWH added in the scope;
- characteristic values for MDF.RWH added in 5.5.4
- editorial changes.

This document is intended to be used in conjunction with EN 1995-1-1.

The EN 12369 series Wood-based panels — Characteristic values for structural design is currently composed of the following parts:

- Part 1: OSB, particleboards and fibreboards;
- Part 2: Plywood;
- Part 3: Solid wood panels.

Annex A is informative.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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

EN 12369-1:2025 (E)

1 Scope

This document provides information on the characteristic values for use in designing structures incorporating wood-based panels. The characteristic values given are as defined in EN 1995-1-1.

This document includes the characteristic values of both the mechanical properties and density for the panels set out below:

- OSB/2, OSB/3 and OSB/4, complying with EN 300;
- Particleboard, P4, P5 P6, P7 complying with EN 312;
- Hardboard, HB.HLA2 complying with EN 622-2;
- Medium board, MBH.LA2 complying with EN 622-3;
- MDF.LA and MDF.HLS complying with EN 622-5;
- MDF.RWH complying with EN 622-5.

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 300, *Oriented Strand Boards (OSB) — Definitions, classification and specifications*

EN 312, *Particleboards — Specifications*

EN 323, *Wood-based panels — Determination of density*

EN 622-2, *Fibreboards — Specifications — Part 2: Requirements for hardboards*

EN 622-3, *Fibreboards — Specifications — Part 3: Requirements for medium boards*

EN 622-5, *Fibreboards — Specifications — Part 5: Requirements for dry process boards (MDF)*

EN 789, *Timber structures — Test methods — Determination of mechanical properties of wood based panels*

EN 1058, *Wood-based panels — Determination of characteristic 5-percentile values and characteristic mean values*

EN 1995-1-1:2004, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*

3 Terms, definitions and symbols

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/>



This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- Looking for additional Standards? Visit Intertek Inform Infostore
- Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation