

English Version

Wood-based panels - Guidance on the use of load-bearing boards in floors, walls and roofs

Panneaux à base de bois - Guide pour l'utilisation des panneaux structurels en planchers, murs et toitures

Holzwerkstoffe - Leitfaden für die Verwendung von tragenden Platten in Böden, Wänden und Dächern

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Foreword

This document (CEN/TR 12872:2014) has been prepared by Technical Committee CEN/TC 112 “Wood-based panels”, the secretariat of which is held by DIN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TS 12872:2007.

Compared to CEN/TS 12872:2007 the following changes have been made:

- a) deliverability changed from CEN/TS to CEN/TR;
- b) references to requirements according to EN 12871 deleted after transformation of EN 12871 into a test method standard;
- c) in 10.2, Table 2, values of dimensional changes depending on moisture content for multilayer solid wood panels added;
- d) presentation of wall and roof constructions in Clauses 14 and 15 indicated as basic examples;
- e) recommended expansion gaps for walls and roofs in Clauses 14 and 15 reduced.

1 Scope

This Technical Report gives guidance on the use of wood-based panels in structural applications as structural floor and roof decking on joists or structural wall sheathing on studs in accordance with EN 12871. It provides information on:

- inspection at site;
- transport and delivery;
- handling;
- stacking;
- storage;
- moisture content, conditioning and the effects of moisture;
- cutting and machining;
- selection;
- installation.

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

EN 312, *Particleboards - Specifications*

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 634-2, *Cement-bonded particleboards - Specifications - Part 2: Requirements for OPC bonded particleboards for use in dry, humid and external conditions*

EN 636, *Plywood - Specifications*

EN 12871, *Wood-based panels - Determination of performance characteristics for load bearing panels for use in floors, roofs and walls*

EN 13353, *Solid wood panels (SWP) - Requirements*

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

3 Terms and definitions

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