
**Wood-based panels — Determination of
resistance to axial withdrawal of screws**

*Panneaux à base de bois — Détermination de la résistance à
l'arrachement axial des vis*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 27528 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*.

Wood-based panels — Determination of resistance to axial withdrawal of screws

1 Scope

This International Standard specifies a method for determining the resistance of wood-based panels, of thickness 15 mm and greater, to the withdrawal of screws under axial load.

NOTE This International Standard establishes fastener holding performance of screws commonly used in applications involving wood-based panels used for building, furniture, cabinet making, joinery or other work in particular regions. Different screws will give different results.

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.

ISO 286-2, *ISO system of limits and fits — Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts*

ISO 2074, *Plywood — Vocabulary*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4757, *Cross recesses for screws*

ISO 9424, *Wood-based panels — Determination of dimensions of test pieces*

ISO 16999, *Wood-based panels — Sampling and cutting of test pieces*

ISO 17064, *Wood-based panels — Fibreboard, particleboard and oriented strand board (OSB) — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17064 and ISO 2074 apply.

4 Principle

Determination of the maximum axial force required to extract a screw from the face and edge of wood-based panels.