
**Wood-based panels — Determination of
tensile strength perpendicular to the
plane of the panel**

*Panneaux à base de bois — Détermination de la résistance à la traction
perpendiculaire aux faces du panneau*



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Foreword

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ISO 16984 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*. ISO 16984 is based on European Standard EN 319.

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Wood-based panels — Determination of tensile strength perpendicular to the plane of the panel

1 Scope

This International Standard specifies a method for determining the resistance to tension perpendicular to the plane of the panel, also known as “internal bond”, of particleboards, OSB, fibreboards, and cement-bonded particleboards.

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

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

3 Principle

Determination of resistance to tension perpendicular to the surface of the test piece by submitting the latter to a uniformly distributed tensile force until rupture occurs. The tensile strength perpendicular to the plane of the panel is determined by the maximum load in relation to the surface area of the test piece.

4 Apparatus

4.1 Sliding caliper, as specified in ISO 9424.

4.2 Testing machine, capable of applying a tensile force perpendicular to the surfaces of the test piece by means of grips (see Figure 1), and measuring this force to an accuracy of 1%. At least one grip shall be self-aligning.

4.3 Test blocks, of metal, hardwood or hardwood plywood, compatible with the fixing device, to which the test pieces are to be bonded (see Figure 1). Hardwood or hardwood plywood shall have a density of greater than 600 kg/m³.

5 Test pieces

5.1 Sampling

Sampling and cutting of the test pieces shall be carried out according to ISO 16999.