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**Wood-based panels — Particleboard —  
Part 1:  
Classifications**

*Panneaux à base de bois — Panneaux de particules —  
Partie 1: Classifications*



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## Foreword

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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.

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ISO 16893-1 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*, Subcommittee SC 2, *Particle boards*.

ISO 16893 consists of the following parts, under the general title *Wood-based panels — Particleboard*:

- *Part 1: Classifications*
- *Part 2: Requirements*

## Introduction

This part of ISO 16893 is a performance-based product specification covering the various types of particleboard produced worldwide. It specifies an overall classification matrix, including all major existing classes, and allows for the addition of future grades.

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# Wood-based panels — Particleboard —

## Part 1: Classifications

### 1 Scope

This part of ISO 16893 specifies a classification matrix and the related mandatory tests and thickness ranges to be applied to particleboard for general purposes, furniture, load-bearing applications, and heavy-duty load-bearing applications.

NOTE Requirements for mandatory test properties are specified in ISO 16893-2.

### 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 3340, *Fibre building boards — Determination of sand content*

ISO 9426, *Wood-based panels — Determination of dimensions of panels*

ISO 9427, *Wood-based panels — Determination of density*

ISO 12460-1, *Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the 1-cubic-metre chamber method*

ISO 16572, *Timber structures — Wood-based panels — Test methods for structural properties*

ISO 16978, *Wood-based panels — Determination of modulus of elasticity in bending and of bending strength*

ISO 16979, *Wood-based panels — Determination of moisture content*

ISO 16981, *Wood-based panels — Determination of surface soundness*

ISO 16983, *Wood-based panels — Determination of swelling in thickness after immersion in water*

ISO 16984, *Wood-based panels — Determination of tensile strength perpendicular to the plane of the panel*

ISO 16985, *Wood-based panels — Determination of dimensional changes associated with changes in relative humidity*

ISO 16987, *Wood-based panels — Determination of moisture resistance under cyclic test conditions*

ISO 16998, *Wood-based panels — Determination of moisture resistance — Boil test*

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

ISO 20585, *Wood-based panels — Determination of wet bending strength after immersion in water at 70 °C or 100 °C (boiling temperature)*

ISO 27528, *Wood-based panels — Determination of resistance to axial withdrawal of screws*