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**Adhesives — Test methods for the  
evaluation and selection of adhesives  
for indoor wood products —**

**Part 2:  
Resistance to delamination in severe  
environments**

*Adhésifs — Méthodes d'essai pour la sélection et l'évaluation des  
adhésifs destinés aux produits en bois utilisés à l'intérieur —*

*Partie 2: Résistance à la délamination dans des environnements sévères*



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This third edition cancels and replaces the second edition (ISO 26842-2:2013), which has been technically revised. The main changes compared to the previous edition are as follows:

— in [Clause 5](#), the first paragraph has been clarified.

A list of all parts in the ISO 26842 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Adhesives — Test methods for the evaluation and selection of adhesives for indoor wood products —

## Part 2:

## Resistance to delamination in severe environments

**SAFETY STATEMENT** — Persons using this document should be familiar with normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

It is recognized that some of the materials permitted in this document might have a negative environmental impact. As technological advances lead to more acceptable alternatives for such materials, they will be eliminated to the greatest extent possible.

At the end of the test, care should be taken to dispose of all waste in an appropriate manner.

### 1 Scope

This document gives guidelines to select, by means of delamination-resistance tests, adhesive/wood combinations for use in wood products placed in severe environments, in which the products are exposed to extreme change of temperature and humidity. A series of exposure cycles at various temperature and humidity values is provided to verify that the adhesive selected, or a product bonded with the adhesive, meets the necessary requirements for resistance to delamination.

This document is intended to help the user not only to select a suitable adhesive, but also to evaluate adhesives and adhesively bonded wood products.

**NOTE** When actual wood products are tested using this method, the test results might not be comparable because the test laboratory do not normally have had adequate control over the way the product was assembled.

This document is not intended for use in the qualification of structural components.

### 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.

ISO 6238, *Adhesives — Wood-to-wood adhesive bonds — Determination of shear strength by compressive loading*

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

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

### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>