

**Adhesives for load bearing timber structures
- Test methods - Part 2: Static load test of
multiple bondline specimens in compression
shear**

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bondline specimens in compression shear

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English Version

**Adhesives for load bearing timber structures other than phenolic
and aminoplastic - Test methods - Part 2: Static load test of
multiple bondline specimens in compression shear**

Adhésifs pour charpentes en bois portantes, de type autre
que phénolique et aminoplaste - Méthodes d'essai - Partie
2 : Essai de charge statique des éprouvettes à plan de joint
multiple en cisaillement par compression

Klebstoffe für tragende Holzbauteile ausgenommen
Phenolharzklebstoffe und Aminoplaste - Prüfverfahren -
Teil 2: Statische Belastungsprüfung an Prüfkörpern mit
mehreren Klebstofffugen bei Druck-Scherbeanspruchung

This European Standard was approved by CEN on 10 November 2007.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 15416-2:2007) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

This European Standard is one of a series dealing with test methods for adhesives for use in load bearing timber structures. The standard is published in support of Eurocode 5, Common unified rules for timber structures. The series consist of six test methods to assess the performance of adhesives after specified heat and humidity treatments (EN 302, Parts 1 to 4, EN 15416-2 and EN 15416-3) and two test methods to characterize the working properties of the adhesive (EN 15416-4 and EN 15416-5). Requirements for the adhesives are stated in other standards, for instance requirements for one component polyurethane adhesives for load bearing timber structures are given in prEN 15425.

Safety statement

Persons using this document should be familiar with the normal laboratory practice, in 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 and to ensure compliance with any regulatory conditions.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard specifies a method of determining the ability of adhesive bonds to resist static load. It is applicable to adhesives used in load bearing timber structures.

It is suitable for the following applications:

- a) for assessing the compliance of adhesives according to prEN 15425;
- b) for assessing the suitability and quality of adhesives for load-bearing timber structures.

This test is intended primarily to obtain performance data for the classification of adhesives for load bearing timber structures according to their suitability for use in defined climatic environments. This method is not intended for use to provide numerical design data and does not necessarily represent the performance of the bonded member in service. It is not applicable to assessment of the suitability of adhesives for the manufacture of wood-based panels.

2 Normative references

Not applicable.

3 Principle

Glued test pieces are subjected to a constant compression shear load under a series of three different climates. Number of failures and the amount of deformation is measured after the test specimens have passed through all the climate cycles.

4 Apparatus

4.1 Test jigs

The test equipment is in principle similar to that described in ASTM D 3535-07a, with the exception of the spring characteristics (Figure 1 and Figure 2).