

Adhesives for load-bearing timber structures - Test methods - Part 5: Determination of the conventional assembly time

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-ENV 302-5:2010 sisaldab Euroopa standardi ENV 302-5:2001 ingliskeelset teksti.

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English version

Adhesives for load-bearing timber structures - Test methods -
Part 5: Determination of the conventional assembly time

Adhésifs pour structures portantes en bois - Méthodes
d'essais - Partie 5: Détermination de la durée
conventionnelle d'assemblage

Klebstoffe für tragende Holzbauteile - Prüfverfahren - Teil 5:
Bestimmung der durchschnittlichen Antrockenzeit

This European Prestandard (ENV) was approved by CEN on 4 October 2001 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 193 "Adhesives", the secretariat of which is held by AENOR.

This prestandard is one of a series dealing with adhesives for use with timber structures. The series consists of seven test methods used to assess the performance of adhesives after specified heat and humidity treatments.

The other parts of the prestandard are :

- prEN 302 - 1 Rev: Determination of longitudinal tensile shear strength;
- prEN 302 – 2 Rev: Determination of resistance to delamination;
- prEN 302 – 3 Rev: Determination of the effect of acid damage to wood fibres by temperature and humidity cycling on the transverse tensile strength;
- prEN 302 - 4 Rev: Determination of the effects of wood shrinkage on the shear strength;
- prEN 302 - 6: Determination of the conventional pressing time;
- prEN 302 - 7: Determination of the conventional working life.

No existing European Standard is superseded.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Prestandard specifies a laboratory method of determining the conventional assembly time for adhesives for load bearing timber structures under specified conditions.

This test method is not intended for use with adhesive systems in which the components are separately and sequentially applied to the substrate.

This prestandard is only intended for obtaining a reliable base of comparison between similar adhesives. The method gives result which cannot be applied to the safe manufacture of timber structures without modifications for the influences of timber density/absorbency, moisture content, factory temperature and relative air humidity.

2 Normative references

This European Prestandard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Prestandard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 923, *Adhesives — Terms and definitions*.

3 Terms and definitions

For the purposes of this European Prestandard, the terms and definitions given in EN 923 and the following term and definition apply.

3.1

conventional assembly time

interval between adhesive application and the stage in the curing of the adhesive when a rolling ball will travel a distance of 290 mm over the surface of a glass plate coated with the test adhesive; the test arrangement being that described in this prestandard

4 Safety

Persons using this prestandard shall be familiar with normal laboratory practice.

This prestandard does not purport to address all the safety problems, if any, associated with its use.

It is the responsibility of the user to establish safety and health practices and to ensure compliance with any European or national regulatory conditions.

5 Principle

A steel ball is allowed to roll down an inclined plane and across the surface of a glass plate that has been coated with the test adhesive. The procedure is repeated at various time intervals until the ball is observed to travel 290 mm across the plate.