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Edition 1

EN 302-4:2004

Edition 2

SOUTH AFRICAN NATIONAL STANDARD

Adhesives for wood

Part 4-4: Test methods — Determination of the effects of wood shrinkage on the shear strength

This national standard is the identical implementation of EN 302-4:2004 and is adopted with the permission of CEN, rue de Stassart 36, B-1050 Brussels.

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568

www.sabs.co.za

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Table of changes

Change No.	Date	Scope

Acknowledgement

The SABS Standards Division wishes to acknowledge the valuable assistance derived from publications of the European Committee for Standardization (CEN).

National foreword

This South African standard was approved by National Committee SABS SC 1010A, *Adhesives for wood – Adhesives for wood*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in November 2009. This SANS document supersedes SANS 10183:2000 (edition 1.1), in part.

SANS 10183 consists of the following parts, under the general title *Adhesives for wood*:

Part 1: *Terminology and classification.*

Part 2: *Structural applications.*

Part 3: *Non-structural applications.*

Part 4: *Test methods.*

SANS 10183-4, in turn, consists of the following sections:

Section 1: Determination of bond strength in longitudinal tensile shear strength.

Section 2: Determination of resistance to delamination.

Section 3: Determination of the effect of acid damage to wood fibres by temperature and humidity cycling on the transverse tensile strength.

Section 4: Determination of the effects of wood shrinkage on the shear strength.

Section 5: Static load test of multiple bondline specimens in compression shear.

Section 6: Determination of pH.

Section 7: Resistance to creep under static loading for structural wood laminating adhesives used under exterior exposure conditions.

EUROPEAN STANDARD

EN 302-4

NORME EUROPÉENNE

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July 2004

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English version

Adhesives for load-bearing timber structures - Test methods - Part 4: Determination of the effects of wood shrinkage on the shear strength

Adhésifs pour structures portantes en bois - Méthodes
d'essai - Partie 4: Détermination de l'influence du retrait du
bois sur la résistance au cisaillement

Klebstoffe für tragende Holzbauteile - Prüfverfahren - Teil 4:
Bestimmung des Einflusses von Holzschwindung auf die
Scherfestigkeit

This European Standard was approved by CEN on 16 April 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 302-4:2004) 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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

This document supersedes EN 302-4:1992.

This document is one of a series dealing with adhesives for use with timber structures, and is published in support of Eurocode No. 5 “Common unified rules for timber structures”. The series consists of a classification and performance requirements for two types of phenolic and aminoplastic adhesives for use in different climatic conditions (EN 301), four test methods (EN 302 Parts 1 to 4) used to assess the performance of adhesives after specified heat and humidity treatments, and three test methods (ENV 302-5 and EN 302 Parts 6 and 7) to characterise the working properties of the adhesive.

EN 301 and EN 302 Parts 1 to 4 and Parts 6 and 7 have the following titles.

EN 301 *Adhesives, phenolic and aminoplastic, for load-bearing timber structures — Classification and performance requirements*

EN 302 *Adhesives for load-bearing timber structures — Test methods —*

Part 1: *Determination of bond strength in longitudinal tensile shear strength*

Part 2: *Determination of resistance to delamination*

Part 3: *Determination of the effect of acid damage to wood fibres by temperature and humidity cycling on the transverse tensile strength*

Part 4: *Determination of the effects of wood shrinkage on the shear strength*

Part 6: *Determination of the conventional pressing time*

Part 7: *Determination of the conventional working life*

ENV 302-5:2001 has the title '*Adhesives for load-bearing timber structures — Test methods — Part 5: Determination of the conventional assembly time*'.

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