

STN	Lepidlá Lepené spoje drevo-drevo na nenosné konštrukčné aplikácie Stanovenie šmykovej pevnosti tlakovým zaťažením	STN EN 17618 66 8515
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Adhesives - Wood-to-wood adhesive bonds for non-structural applications - Determination of shear strength by compressive loading

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/22

Obsahuje: EN 17618:2021

134257



EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 17618

November 2021

ICS 83.180

English Version

**Adhesives - Wood-to-wood adhesive bonds for non-
structural applications - Determination of shear strength
by compressive loading**

Adhésifs - Joints collés de bois à bois à usages non
structuraux - Détermination de la résistance au
cisaillement par effort de compression

Klebstoffe - Holz-auf-Holz-Klebverbindungen für nicht
tragende Anwendungen - Bestimmung der
Scherfestigkeit durch Druckbelastung

This European Standard was approved by CEN on 3 October 2021.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 17618:2021) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by UNE.

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of an identical text or by endorsement, at the latest by May 2022, and conflicting national standards shall be withdrawn at the latest by May 2022.

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EN 17618:2021 (E)**Introduction**

The test method described in this document can be used for the determination of shear strength, wood failure percentage of bonded assemblies with the aim of defining working properties of adhesives. It will allow considerable improvement in consumer protection in any future product liability system with regard to properties guaranteed by the adhesive manufacturer.

1 Scope

This document specifies a method for adhesives for wood and derived solid wood products for determining the shear strength and wood failure percentage of wood-to-wood adhesive bonds loaded in compression. These parameters allow to define different working properties of adhesives (e.g. final bond strength, pressing time, closed assembly time).

Annex A gives information required prior to testing.

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.

EN 923, *Adhesives - Terms and definitions*

EN 13183-1, *Moisture content of a piece of sawn timber - Part 1: Determination by oven dry method*

ISO 5893, *Rubber and plastics test equipment - Tensile, flexural and compression types (constant rate of traverse) - Specification*

EN ISO 7500-1:2018, *Metallic materials - Calibration and verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system (ISO 7500-1:2018)*

ISO 13061-2, *Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 2: Determination of density for physical and mechanical tests*

ISO 13061-6, *Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 6: Determination of ultimate tensile stress parallel to grain*

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