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ASTM D1037-99 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials

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Abbreviation

ASTM D1037-99

Valid from

10/04/1999

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

[This resource is cited by 1 document \(show Citations\)](#)

Description

These test methods cover the determination of the properties of wood-base fiber and particle panel materials.

Scope

These test methods cover the determination of the properties of wood-base fiber and particle panel materials as follows:

- Sections Size and Appearance of Boards (7-10)
- Strength Properties: Static Bending (11-20)
- Tensile Strength Parallel to Surface (21-27)
- Tensile Strength Perpendicular to Surface (28-33)
- Compression Strength Parallel to Surface (34-40)

Fastener Holding Tests:

- Lateral Nail Resistance Test (41-46)
- Nail Withdrawal Test (47-53)
- Nail-Head Pull-Through Test (54-60)
- Direct Screw Withdrawal Test (61-67)
- Hardness Test (68-73)
- Hardness Modulus Test (74-80)
- Shear Strength in the Plane of the Board (81-86)

- Glue-Line Shear Test (Block Type) (87-90)
- Falling Ball Impact Test (91-95)
- Abrasion Resistance by the U.S. Navy Wear Tester (96-99)

Moisture Tests:

- Water Absorption and Thickness Swelling (100-107)
- Linear Variation with Change in Moisture Content (108-111))
- Accelerated Aging (112-118)
- Cupping and Twisting (119)
- Moisture Content and Specific Gravity (120-121)
- Interlaminar Shear (122-129)
- Edgewise Shear (130-136)
- Compression-Shear Test (137-146)

There are accepted basic test procedures for various fundamental properties of materials that may be used without modification for evaluating certain properties of wood-based fiber and particle panel materials. These test methods are included elsewhere in the Annual Book of ASTM Standards. The pertinent ones are listed in Table 1. A few of the test methods referenced are for construction where the wood-base materials often are used.

The values stated in inch-pound units are to be regarded as the standard. The metric equivalents of inch-pound units may be approximate.

This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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- [AS/NZS 2918: 2001](#)

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