ASTM D1037 Fig. 31 Shear Fixture

Compression-Shear Fixture for Wood-Base Panels

Built to ASTM D1037 Fig. 31 — Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials



OVERVIEW

Compression-shear fixture for wood-base fiber and particle panel materials. A block specimen is seated in the fixture so that compressive force from the test machine is converted into shear along a defined plane, with guided members keeping the shear plane aligned and limiting rotation during loading.

KEY FEATURES

- Converts machine compression into shear on a defined plane
- Guided sliding member limits specimen rotation
- Hardened, square bearing edges at the shear plane
- Compact design fits between standard compression platens
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Compression-shear (Fig. 31 arrangement)
Test type / loading	Compression-driven shear
Specimens	Block specimens per ASTM D1037 geometry
Load capacity	50 kN standard; higher capacities on request
Fixture material	Hardened steel, corrosion-resistant finish
Contact surfaces	Hardened bearing edges at shear plane
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Particleboard and fiberboard shear strength
- Laminated and bonded panels
- Adhesive and resin system evaluation
- Panel product development and QC

ABOUT THE STANDARD

ASTM D1037 provides test methods for wood-base fiber and particle panel materials, including bending, tension, compression, fastener performance, hardness, shear, moisture and other properties. The compression-shear test loads a block specimen so that it fails in shear along a defined plane, characterizing shear strength of panels and laminated or bonded panel products.

Ordering & customization: Specify specimen block size, required capacity and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-D1037Fig.31-SF