ASTM D1037 Fig. 4 Bend Fixture

Static Bending Fixture for Wood-Base Panels

Built to ASTM D1037 Fig. 4 — Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials



OVERVIEW

Static bending fixture for wood-base fiber and particle panels. The panel strip rests on two rounded supports and is loaded at mid-span through a rounded loading head, giving modulus of rupture and apparent modulus of elasticity. Adjustable supports accept the spans required for different panel thicknesses.

KEY FEATURES

- Center-point loading with rounded loading head and supports
- Adjustable span scaled to panel thickness
- Wide supports accept full panel strip widths
- Clearance for deflection measurement at mid-span
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Static bending, center-point (Fig. 4 arrangement)
Test type / loading	Quasi-static flexure
Specimens	Panel strips per ASTM D1037 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Steel, corrosion-resistant finish
Loading members	Rounded loading head and supports
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Particleboard and MDF production QC
- Hardboard and fiberboard testing
- Oriented strand board evaluation
- Panel product development

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 static bending test loads a panel specimen at mid-span as a simple beam to determine modulus of rupture and stiffness, core properties for particleboard, fiberboard and OSB.

Ordering & customization: Specify panel thickness range, span, specimen width, 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.4-BF