PRODUCT DATA SHEET

ASTM D1037 Fig. 11 Tensile Fixture

Nail Withdrawal Fixture for Wood-Base Panels

Built to ASTM D1037 Fig. 11 — Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials



OVERVIEW

Tensile fixture for direct nail withdrawal testing of wood-base fiber and particle panels. The panel specimen is held under a rigid restraining plate with a clearance hole while a clamp grips the nail head or shank and pulls it straight out, measuring the maximum withdrawal force.

KEY FEATURES

- Rigid hold-down plate restrains panel around the nail
- Nail clamp aligned on the withdrawal axis
- Accepts common nail diameters
- Quick specimen change for test series
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Direct nail withdrawal (Fig. 11 arrangement)
Test type / loading	Monotonic tension at constant rate
Specimens	Panel specimens with driven nail per ASTM D1037
Load capacity	5 kN standard; higher capacities on request
Fixture material	Steel, corrosion-resistant finish
Gripping surfaces	Nail clamp; restraining plate with clearance hole
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Particleboard and fiberboard QC
- Oriented strand board testing
- Fastener holding 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 nail withdrawal test measures the resistance of a panel to direct withdrawal of a driven nail, a key indicator of fastener holding in particleboard, fiberboard and similar products.

Ordering & customization: Specify panel thickness, nail 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.11-TF