Tensile Grips for Wood Panels, Parallel to Surface

Built to ASTM D1037 Fig. 8 — Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials



OVERVIEW

Self-aligning, self-tightening tensile grips for testing wood-base panels in tension parallel to the surface. Wedge-action jaws grip the widened ends of necked panel specimens and tighten as load increases, while the grip mounting allows alignment so that the reduced section fails in uniform tension.

KEY FEATURES

- Wedge-action jaws self-tighten as load increases
- Self-aligning mounting reduces bending of the specimen
- Serrated faces suited to wood-composite surfaces
- Accepts a range of panel thicknesses
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Tension parallel to surface (Fig. 8 arrangement)
Test type / loading	Monotonic tension at constant rate
Specimens	Necked panel specimens per ASTM D1037 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Steel with hardened jaw faces
Gripping surfaces	Serrated wedge jaws
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Particleboard and fiberboard tension tests
- Hardboard production QC
- Panel product development
- Research and certification labs

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 tension parallel to surface test pulls a necked specimen cut from the panel to determine tensile strength in the plane of the panel, used for particleboard, fiberboard and hardboard.

Ordering & customization: Specify panel thickness range, specimen width at the grips, 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.8-TG