

ASTM C364 Compression Platens

Edgewise Compression Fixture for Sandwich Panels

Built to ASTM C364 — Standard Test Method for Edgewise Compressive Strength of Sandwich Constructions



OVERVIEW

Compression platen set with end-support clamps for edgewise compression of sandwich panels. Parallel, ground platens apply load in the plane of the facings, while the end clamps restrain the loaded edges to prevent local crushing or brooming, so the panel fails by facing compression, buckling or wrinkling rather than end damage.

KEY FEATURES

- Hardened, precision-ground platens held parallel for uniform edge loading
- End-support clamps restrain loaded edges and suppress end brooming
- Spherically seated upper platen option for self-alignment
- Accepts a range of panel widths and thicknesses
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Edgewise (in-plane) compression of sandwich constructions
Test type / loading	Monotonic compression, parallel to facing plane
Specimens	Flat sandwich panels per ASTM C364 specimen geometry
Load capacity	100 kN standard; higher capacities on request
Fixture material	Hardened tool steel, corrosion-resistant finish
Contact surfaces	Precision-ground platens with clamping end supports
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Honeycomb and foam-core sandwich panels
- Aerospace interior and structural panels
- Marine and wind-energy laminates
- Facing wrinkling and buckling studies

ABOUT THE STANDARD

ASTM C364 determines the edgewise compressive strength of structural sandwich constructions, loading the specimen in a direction parallel to the plane of the facings. It applies to flat sandwich panels with continuous bonding of facings to core, such as honeycomb and foam cores with composite or metal skins. Results support design data, material comparisons and evaluation of facing stability under in-plane compression.

Ordering & customization: Specify panel width, thickness, facing and core type, 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-C364-CP