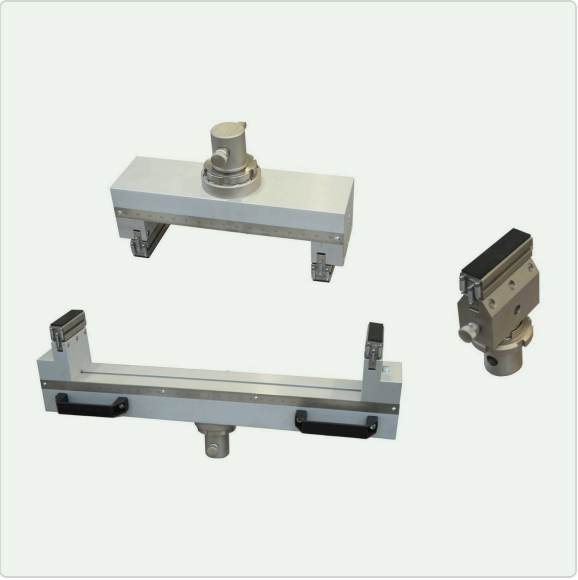
PRODUCT DATA SHEET

ASTM D7249 Bend Fixture

Long Beam Flexure Fixture for Sandwich Facesheets

Built to ASTM D7249 — Standard Test Method for Facesheet Properties of Sandwich Constructions by Long Beam Flexure



OVERVIEW

Four-point long beam flexure fixture for determining facesheet properties of sandwich constructions per ASTM D7249. Long support span and load pads put the sandwich beam in bending so the facesheets reach failure in tension or compression before the core fails in shear.

KEY FEATURES

- Long support span for bending-dominated failure
- Load pads distribute load to prevent local core crushing
- Adjustable support and loading spans
- Pivoting supports allow free beam rotation
- Rigid base with clear view for deflection measurement

TECHNICAL SPECIFICATIONS

Test method	Four-point long beam flexure
Test type / loading	Static flexure, constant crosshead rate
Specimens	Long sandwich beams per ASTM D7249 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Steel and aluminum, corrosion-resistant finish
Loading members	Pivoting supports with load-spreading pads
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 and marine composite structures
- Facesheet material qualification
- Sandwich design data

ABOUT THE STANDARD

ASTM D7249 determines the facesheet strength and stiffness of flat sandwich constructions using a long beam in four-point bending. The geometry is chosen so that bending dominates and facesheet failure occurs before core shear or local crushing. Results include facesheet strength and effective modulus for sandwich panel design.

Ordering & customization: Specify beam width, thickness, required spans, capacity and test machine connection.

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-D7249-BF