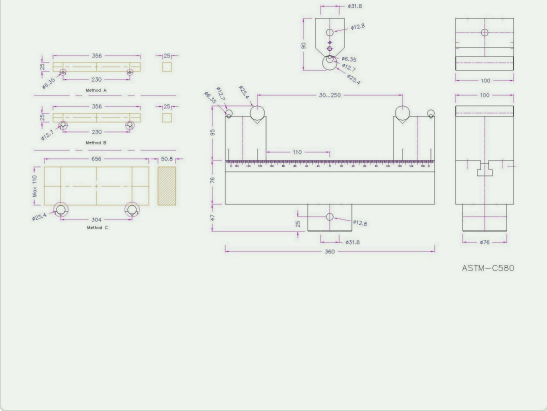
PRODUCT DATA SHEET

ASTM C580 Bend Fixture

Flexure Fixture for Chemical-Resistant Mortars, Grouts

Built to ASTM C580 — Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes



OVERVIEW

Flexure fixture for bar specimens of chemical-resistant mortars, grouts, monolithic surfacings and polymer concretes. The bar rests on two support noses and is loaded at mid-span or third points, depending on the procedure, with deflection measured to determine flexural strength and modulus of elasticity.

KEY FEATURES

- Hardened support and loading noses
- Adjustable span to suit specimen size per method
- Accommodates deflection measurement at mid-span
- Rigid base beam keeps supports aligned and parallel
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Simple beam flexure per ASTM C580
Test type / loading	Quasi-static flexure with deflection measurement
Specimens	Molded bar specimens per ASTM C580 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Hardened tool steel, corrosion-resistant finish
Loading members	Hardened, ground support and loading noses
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Chemical-resistant mortars and grouts
- Polymer concretes
- Monolithic floor surfacings
- Resin system development and QC

ABOUT THE STANDARD

ASTM C580 determines the flexural strength and modulus of elasticity of chemical-resistant mortars, grouts, monolithic surfacings and polymer concretes. Molded bar specimens are tested as simple beams under controlled loading, and load-deflection data are recorded. The results are used to compare materials and support specification of corrosion-resistant construction products.

Ordering & customization: Specify specimen size, procedure (span and loading arrangement), 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-C580-BF