Sealant Tensile Test Fixture (H-Block)

Built to ISO 8339 — Building construction — Sealants — Determination of tensile properties (Extension to break)



OVERVIEW

Pair of open-frame specimen holders for tensile testing of sealant H-block specimens to break. Each holder slides over one substrate block, so the test machine pulls the sealant bead in uniform tension at a constant rate while force and extension are recorded until cohesive or adhesive failure.

KEY FEATURES

- Open window-frame holders slide over substrate blocks without adhesive or screws
- Even load across the full substrate width keeps the bead in uniform tension
- Suits mortar, glass and aluminium substrates of standard H-block size
- Self-aligning swivel connections reduce bending on the sealant joint
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Tensile properties, extension to break, per ISO 8339
Test type / loading	Tension at constant rate to failure
Specimens	H-block: 12 × 12 × 50 mm sealant bead between two substrates
Load capacity	1 kN standard; higher capacities on request
Fixture material	Aluminium alloy or stainless steel
Gripping surfaces	Open frame bearing on back face of substrate
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Building and construction joint sealants
- Glazing and facade sealants
- Sealant modulus classification
- Formulation development and QC

ABOUT THE STANDARD

ISO 8339 determines the tensile properties of building sealants. A sealant bead cured between two parallel substrates is extended at a constant rate until failure, after conditioning as specified. Results include the secant tensile modulus, typically at 100% elongation, the elongation at break and the type of failure, adhesive or cohesive.

Ordering & customization: Specify substrate block dimensions, substrate material, 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-ISO8339-TF