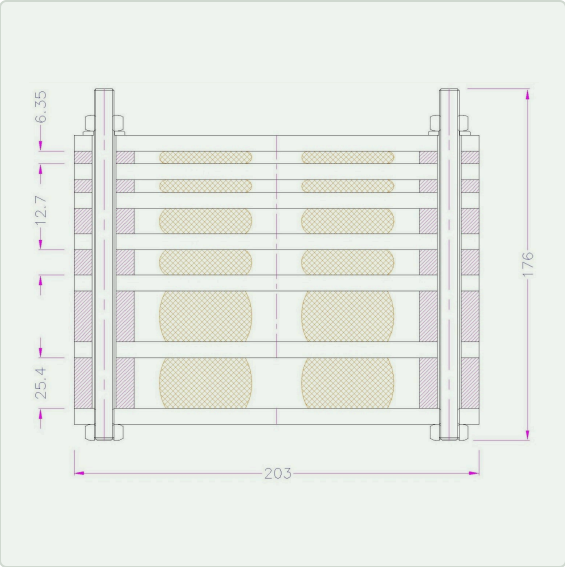
# ISO 1856 Compression Platens

## Compression Set Clamping Device for Flexible Foam

Built to ISO 1856 — Flexible cellular polymeric materials — Determination of compression set




### OVERVIEW

Multi-level clamping device for compression set testing of flexible foam. Foam specimens are stacked between flat steel plates separated by spacer bars of set height, and tie rods with nuts clamp the stack down to the spacers, holding each level at a fixed compression during ageing.

### KEY FEATURES

- Flat, parallel plates compress foam evenly across the test piece
- Spacer bars set compression height at each level
- Several levels test multiple specimens or thicknesses at once
- Tie rods and nuts clamp the stack without a load frame
- Compact frame fits laboratory ageing ovens

### TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Test method** | Compression set at constant deflection |
| **Test type / loading** | Fixed-deflection compression, bolted clamp |
| **Specimens** | Foam test pieces per ISO 1856 |
| **Compression** | Set by spacer height; spacers to suit test piece thickness |
| **Fixture material** | Steel plates and tie rods, corrosion-resistant finish |
| **Contact surfaces** | Flat, parallel plate faces |
| **Envelope** | Approx. 203 mm wide × 176 mm high, per drawing |
| **Use** | Bench and oven use; no load frame required |

### APPLICATIONS

- Flexible polyurethane foam
- Latex and rubber foams
- Seating, bedding and packaging foams
- Foam durability and ageing studies

### ABOUT THE STANDARD

ISO 1856 specifies methods for determining the compression set of flexible cellular polymeric materials. Test pieces are compressed by a fixed percentage of their thickness, held for a set time and temperature, then released and allowed to recover. The loss of thickness, expressed as a percentage, indicates the foam's resistance to permanent deformation.

**Ordering & customization:** Specify test piece size and thickness, compression percentage, number of levels and maximum ageing temperature 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-ISO1856-CP