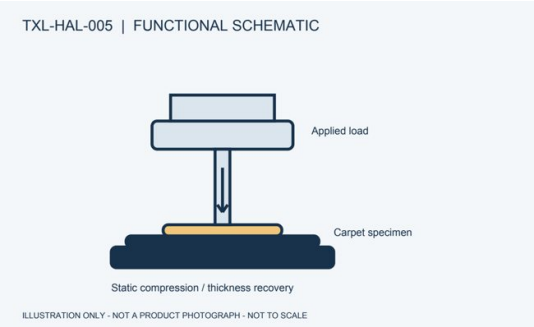


TXL-HAL-005 / 27 October 2026 · One-year manufacturer warranty

Static Load Compression Tester

Compression and recovery of carpets under static loading. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.



Functional schematic: illustrative only; not a production photograph or a dimensioned engineering drawing.

Model technical data

1	Used to determine compressibility after applying a load of 7.0 kg/cm ² for a specified time.
2	A thickness gauge is supplied with the instrument.

Physical specifications and utilities

Electrical supply	Manual / passive base apparatus; no mains supply assumed.
Power / connected load	Approx. 0 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 400 × 400 × 700 mm (W × D × H).
Instrument weight	Approx. 25–50 kg net.
Gross / shipping weight	Approx. 37.5–72.5 kg gross; estimated packing allowance.
Lab requirements	Level, stable working surface; specimen conditioning follows the selected method.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Thickness loss and recovery after static loading
Parameters selected for the method	Load, loaded area, dwell and recovery time
Verification points	Applied load and thickness measurement

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

- The need for integrated software depends on the method and selected hardware; manual instruments use an external test record.
- Method code and edition, specimen ID, operator and selected test parameters are linked to the record.
- Thickness loss and recovery are calculated using initial thickness and method-specific times.
- Raw measurements, units, valid/invalid test flags and the reported result remain traceable.
- Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

ISO 3416 · BS 4939

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

ISO 3416:1986 / 4.1–4.3

1	Prolonged heavy static loading uses 700 kPa; a separate thickness tester requires a circular 300–1000 mm ² foot, 2.00 ± 0.2 kPa and 0.1 mm accuracy. Loading-foot radius exceeds measuring-foot radius by at least 2 mm.
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ISO 3416:1986 / 4.2, 6, 7.1–7.3; printed p.1 only

1	ISO 3416:1986: at least five 100 × 100 mm specimens; five alloy mounting plates 100 × 100 mm, approximately 6 mm thick. Lightly brush pile against, then with, its lean; condition mounted specimens at least 24 h in the ISO 139 atmosphere. These are specimen/plate dimensions, not overall instrument size.
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BS 4939:1987 / ISO 3416:1986 (BSI cover co-designation) / BSI cover co-designation + ISO 3416:1986 clauses 4.1–4.3

1	The official BSI cover co-designates BS 4939:1987 and ISO 3416:1986. Reviewed clauses 4.1–4.3 of that common text specify 700 kPa loading; separate thickness tester with circular 300–1000 mm ² foot, 2.00 ± 0.2 kPa and 0.1 mm accuracy. Loading-foot radius exceeds measuring-foot radius by at least 2 mm. Numerical clauses were read in the ISO preview; no complete BS-text review is claimed.
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