

# Load Test Unit

## Used on site to test tie pull-out loads

The Helifix Load Test Unit is used on site to test the pull-out loads from the actual masonry units within the structure in question.

These loads will be more meaningful than laboratory performance figures using selected materials.

## Operating Instructions

- 1 Unpack the unit from the box.  
Any minor oil leakage should be wiped clean.  
In the event of significant leakage contact Helifix
- 2 Check the enclosed calibration certificate to ensure calibration is current
- 3 Select the appropriate test key to fit the item to be pull-tested
- 4 Fit key over the end of the tie/pin to be tested and wind down at least one full turn. Remove cross pin if fitted
- 5 Slide the Load Test Unit over the key and replace the cross pin through the key, engaging it in the castellation on the top of the centre stud
- 6 Turn load nut by hand until the initial load is applied. This can be judged by feel or by seeing the pointer on the gauge start to move from zero
- 7 Turn load nut slowly using the “tommy” bar provided, until proof or maximum load has been reached. *DO NOT enter the red zone on the gauge and DO NOT OVERLOAD*
- 8 Note the reading and release the tension on the tested Wall Tie
- 9 Remove the cross pin and detach the unit from the test key
- 10 Detach the test key from the Wall Tie
- 11 Refer to the Calibration Chart to convert the indicated load to the actual load





1. Install tie into inner or outer leaf masonry



2. Fit the appropriate sized Load Test Key (LTK) at least 50mm (normally one full turn) over the end of the tie. Remove the cross pin, if fitted



3. Slide the Load Test Unit (LTU) over the LTK and replace the cross pin, engaging it in the castellation on the top of the centre stud



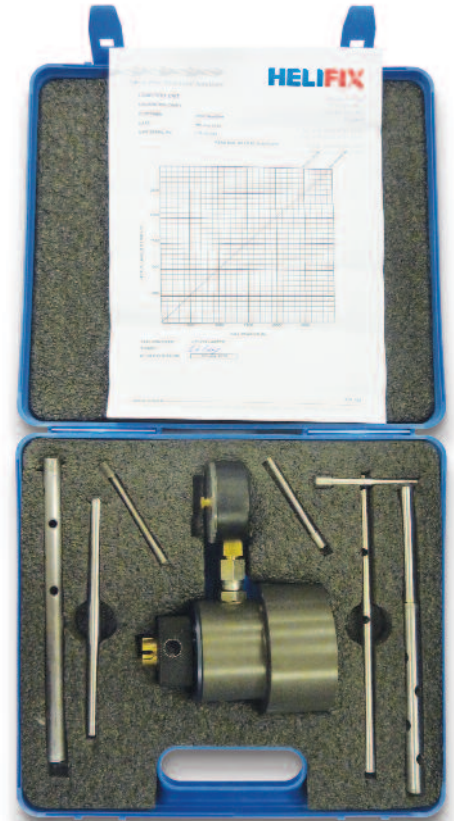
4. Place the cross pin through the LTK and take up the slack on the central nut



5. Turn the Tommy bar slowly until the proof or maximum load is achieved. DO NOT enter the red zone and DO NOT OVERLOAD



6. Note the reading and then release the tension on the tested wall tie



After the load has been applied it is possible that the collet in the test key will deform the fins (particularly with the 8mm products) and be difficult to disengage. Patience and working the key to and fro will ultimately disengage the key.

The weight of the unit should always be supported with one hand when used on vertical surfaces (e.g. walls) as leaving the unit hanging on the Load Test Key is to be avoided.

After use re-pack the unit into its carrying case for protection.

**When re-calibration is due, return the Load Test Unit to Helifix**

Over 50 standard repair specifications are available online, covering all common structural faults.