

ACS 2400 Range Tie

- ✓ **Shear/Movement Tie** (PD 6697: 2010)
- ✓ **Austenitic Stainless Steel**
(Grade 304 (1.4301) or 316 (1.4401))
- ✓ **CE Marked** (EN 845-1)
- ✓ **Lucideon Tested**
- ✓ **Masonry - Masonry Tie**
- ✓ **Debonded**



Technical Data

The 2400 range tie is a shear tie designed to tie two leaves of masonry together at a vertical movement joint. It is designed to allow in axis movement of up to +/-10mm whilst resisting the applied shear loads subjected to the tie in service. The tie has been tested in line with the requirement of BS EN 846-7 to establish a declared shear load capacity which can be used in the design of a movement joint in a masonry panel.

Test Results

The design shear resistance of shear ties conforming to BS EN 845-1 should be taken as the declared shear load capacity, relevant for the type of mortar and masonry units, divided by the value of γ_M for use with ancillary components given in NA to BS EN 1996-1-1:2005, Table NA.1 which is a value of 3.0 for sites in the UK.

Mode of Test	Tie Feature	Maximum Declared Value (N)	Mortar Class
Shear	Masonry End	2500	M2 (iv)
	Debonded End	2340	

Installation

The 2400 range tie is designed for use in vertical movement joints at 300-450mm maximum centres. The tie provides lateral resistance to wind loading whilst allowing expansion and contraction of the masonry panel, preventing cracking. The tie should be installed so the plain end of the tie aligns with the hole at the bottom of the de-bonding sleeve allowing a minimum of 10mm of movement in both directions.

The tie is available in various lengths to suit the specific application, from 150mm to 300mm in 25mm increments; de-bonding sleeves are available in either 100mm or 125mm standard lengths. A tie should be selected to provide the minimum of 75mm embedment of the safe end and 100 or 125mm of plain strip for insertion into the appropriate de-bonding sleeve.



To order a 200mm tie and 125mm de-bonding sleeve see the example above:

For further information or technical assistance please contact the ACS Technical Department on 0870 850 0860 or email technical@acsstainless.co.uk

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