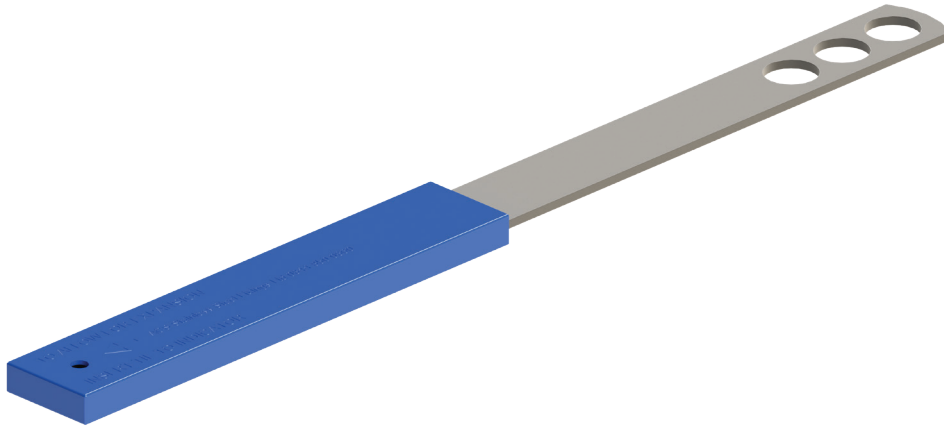


2400 Range Wall Tie



Product highlights

- Shear/movement tie (PD 6697: 2019)
- Austenitic stainless steel
Grade 304 (1.4301), 316 (1.4401)
- UKCA / CE+UKNI marked
- Lucideon tested
- 250mm - 300mm long
- Debonded



Technical data

The 2400 Range Tie is a shear tie designed to tie two leaves of masonry together at a vertical movement joint, with a maximum width of 10mm. 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.

The ACS 2300 Range Tie is available in grades 304 (BS EN 1.4301) and 316 (BS EN 1.4401) austenitic stainless steel.

A1 non-combustible

The ACS 2400 Range Tie is a stainless steel product which satisfies the requirements for an A1 classification without testing as the below details outline. Referring to document 96/603/EC, the ACS 2400 Range Tie

is produced from stainless steel and shall on account of the material's low level of combustibility, be classified in Classes A ("No contribution to fire") without need for further testing. The document shows all categories considered as non-combustible. For any further information please refer to the aforementioned standard.

Test results

The design 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 partial factor for use with ancillary components. This factor is specified within Table NA.1 of the NA to BS EN 1996-1-1:2005, and is given as 3.0 for sites in the UK.

Installation

The 2400 Range Tie is designed for use in vertical movement joints. 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 250mm to 300mm in 25mm increments; de-bonding sleeves are available in a 100mm standard length. A tie should be selected to provide the minimum of 75mm embedment of the safe end and 100mm of plain strip for insertion into the appropriate de-bonding sleeve. Alternatively, the ACS 2000 Range Tie at a length of 200mm or 225mm can be used in the same application.

Mode of test	Tie feature	Maximum declared value (N)	Mortar class
Shear	Masonry end	2500	M2 (iv)
	Debonded end	2340	

Table 1