



- ▶ Type 1 - Heavy Duty Tie (PD6697)
- ▶ Embedment 62.5-75mm
- ▶ CE Marked (BS EN 845)
- ▶ Shear/Movement Tie
- ▶ Austenitic Stainless Steel
- ▶ Suits Cavities 50-225mm
- ▶ Lucideon Tested



Meets the Requirement of the
NHBC Technical Specification

TECHNICAL DATA

The ACS 2000 Range Tie is a multi-purpose tie designed in accordance with all relevant standards, dependant on use.

Its first use is as a cavity tie whereas it can be classified as a Type 1 tie in line with PD6697. The 2000 Range Tie also has the added capability to be used as a movement tie, designed to tie two leaves of masonry together at a vertical movement joint. The tie provides lateral resistance to wind loading whilst allowing expansion and contraction of the masonry panel to prevent cracking. Through the use of an ACS debonding sleeve, it is designed to allow in axis movement of up to +/- 10mm.

The tie formed section and the integrated drip features act to prevent water from crossing the cavity. The minimum mortar joint thickness that this tie is intended for is 10mm.

The ACS 2000 Range Tie is available in Grades 304 (BS EN 1.4301) and Grade 316 (BS EN 1.4401) austenitic stainless steel.

Tie Reference	Tie Length (mm)	Cavity Length (mm)
ACS2000/200*	200	50-75
ACS2000/225*	225	76-100
*Debondable		

Tie Reference	Tie Length (mm)	Cavity Length (mm)
ACS2000/250	250	101-125
ACS2000/275	275	126-150
ACS2000/300	300	151-175
ACS2000/325	325	176-200
ACS2000/350	350	201-225

inner strength in construction
ACS Stainless Steel Ltd.

For more information:

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INSTALLATION

Cavity Tie

When used as a cavity tie, ACS 2000 Range Ties should be installed in line with the guidance of PD6697 which stipulates that ties should typically be installed at 900mm horizontal centres and 450mm vertical centres, staggered by 450mm between courses. This spacing should be reduced to 225mm around openings and at unbonded edges within 300mm of the edge or opening.

Ties should be selected to provide 62.5mm of embedment in each leaf of masonry to ensure their performance under load. The 2000 range tie includes clear embedment markings at 62.5mm to aid with installation.

Movement Tie

When used as a movement tie, ACS 2000 Range Ties are designed for use in vertical movement joints at 225-450mm maximum centres.

The tie should be installed so the end of the tie aligns with the hole at the bottom of the debonding sleeve, allowing a minimum of 10mm of movement in both directions.

The tie is available in two lengths to suit the specific application (200mm and 225mm) and debonding 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 debonding sleeve.

Test results can be found on the next page.



TEST RESULTS

Cavity Tie

ACS 2000 range ties are designed as a symmetrical cavity wall tie as defined in BS EN 845-1:2013 and tested in line with guidance of BS EN 846-5:2012 to establish a declared load capacity. These values, as well as the required value to PD 6697:2019, can be found below:

	Mode of Test	Tie Length	Maximum Declared Value (N)	PD6697:2019 Required Value (N)	Mortar Class
BS EN 846-5 Brick Couplet Test	Compressive	250-350	2530	2000	M2 (iv)
	Tensile	250-350	3710	2500	M2 (iv)
	Compressive	200-225	2600	2000	M2 (iv)
	Tensile	200-225	2600	2500	M2 (iv)

Movement Tie

ACS 2000 range ties are also designed as a slip tie, asymmetrical and movement tolerant at the debonding sleeve end as defined in BS EN 845-1:2013 and tested in line with guidance of BS EN 846-7:2012 to establish a declared load capacity.

These values are found below, as well as the design resistance per metre at given centres when the necessary partial factor is applied, given in NA to BS EN 1996.

Tie Type	Maximum Declared Value (N)	Design Shear Values per Metre (N/m)		Mortar Class
		450mm Centres	225mm Centres	
Masonry End	1230	911	1822	M4 (iii)
Debonded End	1380	1022	2044	M4 (iii)

