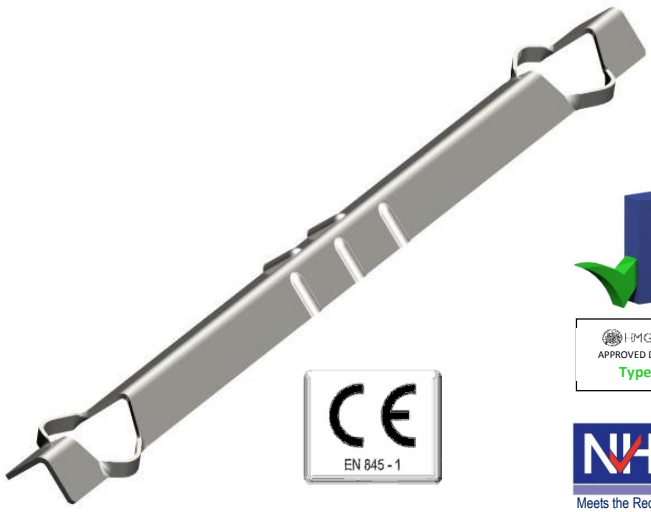
Technical Data Sheet

ACS 2000 Range Tie

- ✓ **Type 1 Heavy Duty** *(PD 6697: 2010)*
- ✓ **50 - 175mm Cavity Range**
- ✓ **Austenitic Stainless Steel** *(Grade 304)*
- ✓ **CE Marked** *(EN 845-1)*
- ✓ **CERAM Tested**
- ✓ **Masonry - Masonry Tie**



UK Government
APPROVED DOCUMENT E
Type B Tie

NHBC
Meets the Requirement of the NHBC Technical Specification

Installation

ACS 2000 Range Ties should be installed in line with the guidance of PD 6697: 2010 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 un-bonded 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 allowing for structural tolerances.

Tie Reference	Tie Length (mm)	Cavity Range (mm)
ACS2000/200	200	50-75
ACS2000/225	225	76-100
ACS2000/250	250	101-125
ACS2000/275	275	126-150
ACS2000/300	300	151-175

Test Results

	Mode of Test	Tie Length (mm)	Maximum Declared Value (N)	BS EN 845-1 Required Value (N)	Mortar Class
BS EN 845-1 Brick Couplet Test	Compressive	300	5947	5000	M12 (i)
			3500	2500	M2 (iv)
	Tensile	300	5361	5000	M12 (i)
			3890	2500	M2 (iv)

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The ACS 2000 Range tie is a heavy duty cavity tie designed to meet the requirements of a Type 1 Cavity Tie in line with PD 6697: 2010. The ties 'V' shape and the integrated drip features act to prevent water crossing the cavity. Tests have shown that the tie is resistant to water with an angle of over 5° in an unfavourable direction. The minimum mortar joint thickness that this tie is intended for is 10mm

Tests performed CERAM Building Technology Ltd proved that the 2000 range tie has a measured dynamic stiffness of 19.58MN/m^3 in a 100mm cavity and therefore is classed as a Type B tie in line with the guidance of Approved Document E of the Building Regulations.

The requirements of BS EN 845 specify that a wall tie must be resistant to water crossing the cavity even when installed at 5 degrees inclination towards the inner leaf. The ACS 2000 range, 275 & 300mm ties have been tested for their resistance to water tracking up to an inclination of 15 degrees over a period of 24 hours. This involved a system being set up to supply a continuous drip of water to the tie to test its ability to shed water. The ties were tested for the required period and did not allow water to cross the cavity. This is due to the ties unique, inverted 'V' section that acts to disperse any water that could potentially cross an equivalent flat tie section. As a result of this testing the drip feature has been omitted from the 275 & 300mm ties.

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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