

# 1000 Range Wire Tie

- ✓ Type 2 Wall Tie - PD 6697: 2010
- ✓ Tangle Free Embedment Ends
- ✓ CE Marked
- ✓ BS EN 845-1 Design
- ✓ BS EN 846-5 Tested
- ✓ 200, 225, 250, 275 & 300mm
- ✓ CERAM Tested



## Installation

ACS 1000 Range Ties should be installed in line with the guidance of PD 6697: 2010 which stipulates that ties should be 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. Ties should be selected to provide 62.5mm of embedment in each leaf of masonry to ensure their performance under load after taking account of structural tolerances.

| Tie Reference | Tie Length (mm) | Cavity Range (mm) |
|---------------|-----------------|-------------------|
| ACS1000/200   | 200             | 50-75             |
| ACS1000/225   | 225             | 76-100            |
| ACS1000/250   | 250             | 101-125           |
| ACS1000/275   | 275             | 126-150           |

## Technical Data

The ACS 1000 range tie is available in grades 304 and 316 austenitic stainless steel and is available in lengths of 200, 225, 250, 275 and 300mm to suit cavities from 50-150mm. PD6697 advises that a Type 2 tie is suitable for buildings up to 15m in height and should be installed at a density of 2.5 ties/m<sup>2</sup>. ACS recommends that the ties are installed with a nominal embedment of 62.5mm. Ties can be installed either way round due to the multi-drip feature, which prevents moisture from travelling across the cavity.

## Test Results

|                                   | Mode of Test | Tie Length | Maximum Declared Value | BS EN 845-1 Required Value |
|-----------------------------------|--------------|------------|------------------------|----------------------------|
|                                   |              | (mm)       | (N)                    | (N)                        |
| BS EN 845-1<br>Brick Couplet Test | Compressive  | 200        | 1408                   | 1300                       |
|                                   |              | 225        | 1408                   |                            |
|                                   |              | 250        | 1420                   |                            |
|                                   |              | 275        | 1240                   |                            |
|                                   |              | 300        | 1240                   |                            |
|                                   | Tensile      | 200        | 1888                   | 1800                       |
|                                   |              | 225        | 1888                   |                            |
|                                   |              | 250        | 1888                   |                            |
|                                   |              | 275        | 1910                   |                            |
|                                   |              | 300        | 1910                   |                            |

Tests performed CERAM Building Technology Ltd proved that the 1000 range tie has a measured dynamic stiffness of less than 20.00MN/m<sup>3</sup> in a 100mm cavity and therefore is classed as a Type B tie in line with guidance of Approved Document E of the Building Regulations.

For further information or technical assistance please contact the ACS Technical Department on 0870 850 0860 or email [technical@acsstainless.co.uk](mailto:technical@acsstainless.co.uk)

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