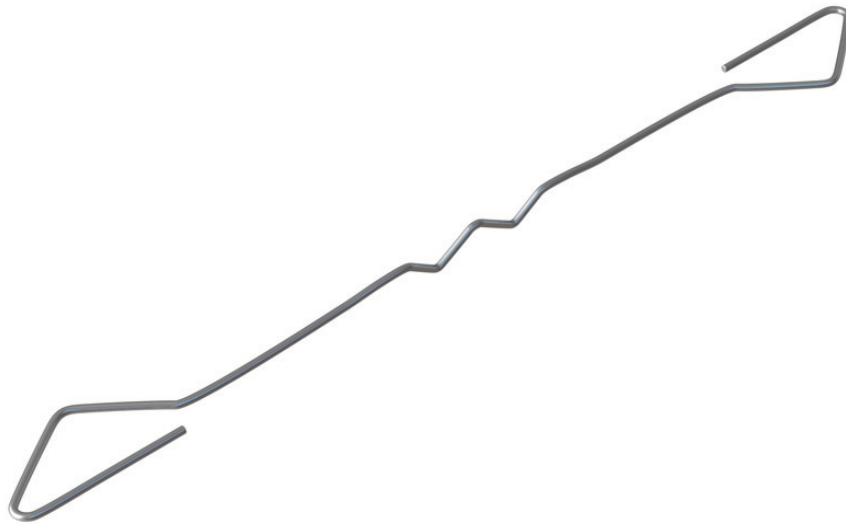


## Masonry to Masonry Wall Ties

These products act to secure two leaves of a cavity wall to each other, allowing them to act as one structurally. A cavity tie usually incorporates some mechanism, (usually a change of shape) to discourage moisture moving across the tie. Most cavity ties are available with a dedicated clip to secure insulation (usually in sheet form) within the cavity.



### Product

#### VE4 Light Duty Housing Tie

Multidrip feature to prevent moisture travelling across the cavity. The design means that the tie can be installed either way up.

250mm long and 2.8mm & 225mm long 2.3 diameter stainless steel Wall Ties supplied by Vista Engineering Limited, were tested in tension and compression over a nominal cavity width of 125mm & 100mm respectively in accordance with BS EN 846-6 Methods of Test for Ancillary Components for Masonry. Part 5; Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (Couplet test).

#### Part E - Type A ties for party or external walls

These ties must either be butterfly ties to BS1243 (only used in 50mm-75mm cavities) or ties with a measured dynamic stiffness of  $<4.8\text{MN/m}^3$  taking both cavity width and tie density into account. Tests at Ceram Building Technology have proved that the Vista VE4 Housing Tie has a measured dynamic stiffness of  $2.77\text{MN/m}^3$  in a 75mm cavity and is therefore more than suitable for party walls at a standard density of 2.5 per square metre, the dynamic stiffness in a 100mm cavity will be similar or less. The VE4 Housing Tie 250mm has also been tested and has a measured dynamic stiffness of  $4.65\text{MN/m}^3$  and therefore also is classed as a Type A tie in Part E.

### Test Results

Summary of Declared Values of Vista Engineering Limited, 2.8mm diameter, 250mm long & 2.3mm diameter, 225mm long ties tested in tension and compression at a standard cavity width of 125mm & 100mm respectively.

Load Direction	Maximum Declared Value at Ultimate Load (N)
250mm Tension reading	
Tension	1879
Compression	638
225mm Tension reading	
Tension	1256
Compression	557