VE4 Light Duty Housing Tie

Data Sheet
001

Masonry to Masonry Wall Ties

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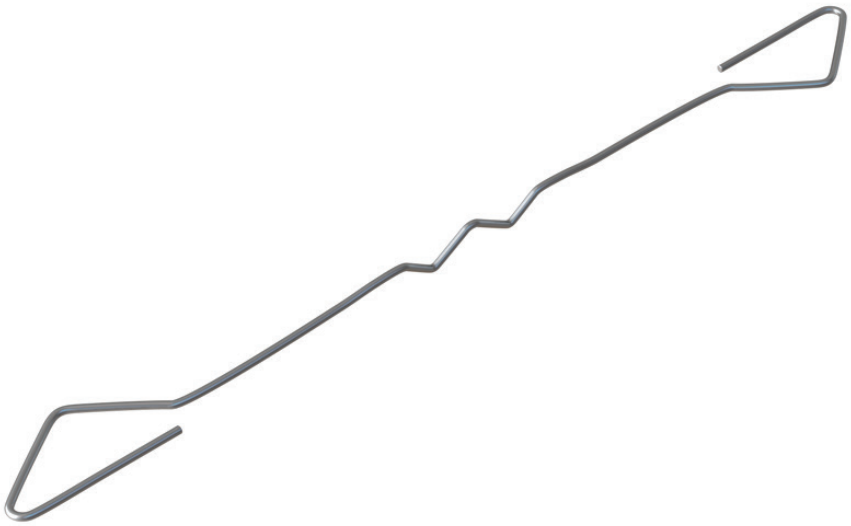
These products act to secure two leaves of a cavity wall to each other, allowing them to act as one structurally. A cavity tie usually incorporates some mechanism, (usually a change of shape) to discourage moisture moving across the tie. Most cavity ties are available with a dedicated clip to secure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

275mm and 250mm long 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 150mm, 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 <4.8MN/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 2.77MN/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 275mm and 250mm have also been tested and have a measured dynamic stiffness of 4.65MN/m3 for use in a 150mm cavity (275mm) and 125mm (250mm) cavity and therefore are also classed as a Type A tie in Part E.

Test Results

Summary of Declared Values of Vista Engineering Limited, 2.8mm diameter, 275mm and 250mm long & 2.3mm diameter, 225mm long ties tested in tension and compression at a standard cavity width of 150mm, 125mm & 100mm respectively.

Load Direction	Maximum Declared Value at Ultimate Load (N)
275mm Tension reading	
Tension	1220
Compression	514
250mm Tension reading	
Tension	1879
Compression	638
225mm Tension reading	
Tension	1256
Compression	557

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