

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

EN2 General Purpose Wall 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 3.3mm & 225mm long 3.0mm 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 B ties for external walls where a Type A tie is not suitable

These ties must either be double triangle tie to BS1243 (only used in 50mm-75mm cavities) or ties with a measured dynamic stiffness of $<113\text{MN/m}^3$ taking both cavity width and tie density into account.

Tests at Ceram Building Technology have proved that the Vista EN2 General Purpose Tie has a measured dynamic stiffness of 12.5MN/m^3 in a 100mm cavity and is therefore more than suitable for external walls at a standard density of 2.5 per square metre.

Test Results

Summary of Declared Values of Vista Engineering Limited, 3.3mm diameter, 250mm long & 3.0mm 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	1818
Compression	1398
225mm Tension reading	
Tension	2436
Compression	1510