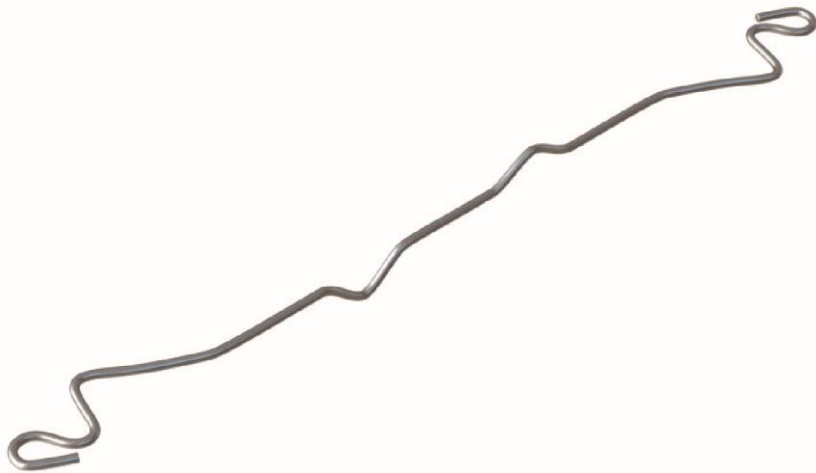


## Masonry to Masonry Wall Ties

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. Its categorisation as a Type 2 tie means the EN2 has a maximum building height of 15m and is suitable for flat sites where the basic wind speed is up to 31m/s and altitude is not > 150m above sea level.

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  $12.5\text{MN/m}^3$  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)
<b>250mm Tension reading</b>	
Tension	<b>1818</b>
Compression	<b>1398</b>
<b>225mm Tension reading</b>	
Tension	<b>2149</b>
Compression	<b>1321</b>