



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

VST1 Heavy Duty Formed Safety Tie

The VST1 tie range has a Multidrip feature to prevent moisture travelling across the cavity. Its categorisation as a Type 1 wall tie means the VST1 tie is suitable for most building heights and geographical locations.

The Vista VST1 wall tie range 200mm to 350mm was tested in tension and compression over a normal cavity width of up to 225mm in accordance with BS EN 846-6 Methods of Test of 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 double triangle ties to BS1243 (only used in 50mm-75mm cavities) or ties with a measured dynamic stiffness of <math><113\text{MN/m}^3</math> taking both cavity width and tie density into account.

Tests at Ceram Building Technology have proved that the Vista VE1 Heavy Duty Safety Tie has a measured dynamic stiffness of <math><86.3\text{MN/m}^3</math> 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

The Vista VST1 wall tie exceeds the performance criteria for a Type 1 tie in line with PD6697: 2019, in M2 mortar.

Embedment details

Vista recommends a design embedment of 62.5mm with each tie covering a range of 25mm (see size guide below) PD6697: 2019 states a minimum embedment of 50mm which includes site tolerance.

Vista confirms that the VST1 wall ties exceed the performance criteria for a Type 1 Tie at 50mm embedment in M2 mortar.

50mm embedment including site tolerances and must not be exceeded.

VST1 Length (mm)	Cavity Width (mm)
200	50-75
225	76-100
250	101-125
275	126-150
300	150-175
325	176-200
350	201-225

