

# Cavity Wall Ties

## Double Triangle Wall Tie, Butterfly & Three - Hole Wall Tie

### Length of Tie and Embedment

Wall Ties should be of the correct length to ensure they are properly embedded in the masonry. The tie should have a minimum embedment of 50mm in each leaf but also take site tolerances into account for both cavity width and centering of the tie. For this reason, we suggest tie lengths which achieve an embedment of between 62.5mm and 75mm. Recommended lengths to suit various cavity widths are shown for masonry-to-masonry wall ties.

### Dimensional Standards

#### Fixed Dimensions

When Specifying ties certain set or minimum dimensions shall be followed, these are described as fixed dimensions and based on the limitations of material and the production processes.

Where a screw or bolt fixing is to be made a minimum length of 30mm is required.

#### Lengths

Lengths are generally measured to the extremity of the tie.

For ties fitting into channels the specified length is measured to the shoulder of the tie.

#### Wire Ties

A range of cavity wall ties are available manufactured in accordance with BS EN 845-1 which supersedes BS 1243. These are available in stainless steel, pre-galvanized or hot-dip galvanized steel, and to the dimensions shown.

### Installation of ties

Wall ties should be pressed down in, and surrounded by, fresh mortar.

To ensure cavity wall ties are effective at tying the leaves together they should be installed as the inner leaf is constructed and not simply pushed into a joint.

Ties should be installed with a slight fall to the outer leaf, never to wards the inner leaf as this could provide a path for moisture to cross the cavity.

The drip part of the tie should point downwards and be positioned near the centre of the open cavity.

Installed ties should be clear of mortar droppings to allow the drip to function and prevent water from crossing to the inner leaf of masonry.

