

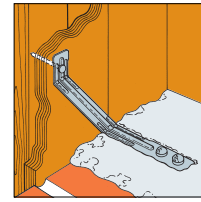
**BTS** Brick-to-Timber Stainless Steel Wall Ties



THE BTS OFFERS AN OUTSTANDING COMBINATION OF PERFORMANCE AND COST IN A BRICK-TO-TIMBER CONNECTOR. DESIGNED AND TESTED IN ACCORDANCE WITH BS EN 845-1 AND DD140:PART 2, TYPE 6 WALL TIES. SUITABLE FOR USE IN TIMBER FRAME STRUCTURES, ALLOWING UP TO 24MM MOVEMENT.

**MATERIAL:** 0.5mm stainless steel.

**INSTALLATION:** Use 3.35mm x 50mm stainless steel annular ring shank nails (supplied with tie).

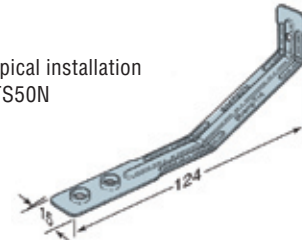


BTS50N	BTS75N	BTS100N
50mm Cavity	75mm Cavity	100mm Cavity

Location	Density of Ties	Spacing (mm)
All South East England and Town and City sites where basic wind speed does not exceed 52m/sec	4.4 ties per m <sup>2</sup>	600 x 375
All sites where basic wind speed exceeds 52m/sec	7 ties per m <sup>2</sup>	600 x 225

BTS50N Compressive Load Capacity 414N.  
BTS50N Tensile Load Capacity 600N.

Also available: BTS50SCR, for use with SIPS panels, this option is supplied with screws.



Above right: Typical installation  
Below right: BTS50N

3.35x50mm nails included with pack

**LWTS/IRC** Cavity Wall Ties & Retaining Clip



Improve the effective thickness of a wall under load. Maintain the moisture break and thermal/sound insulation characteristics of cavity walls. Designed, manufactured and tested to the BS requirements of DD140 parts 1 and 2.

**DD140 TYPE 3 CAVITY TIES:**

- General purpose ties suitable for cavity widths up to 75mm.
- Suitable for use in masonry cavity walls of domestic houses and small commercial buildings up to 15m in height, where the basic wind speed does not exceed 44m/s.

**SOUND RESISTANCE:**

As stated within the Approved Document E 2003 - Resistance to the Passage of Sound - wall ties used in external and separating cavity walls have to have a minimum value of dynamic stiffness to reduce the transmission of airborne noise. Ties are separated into Type A and Type B.

- Type A: Can be used in separating walls and external walls subject to them also having the required structural capacity. They can be butterfly ties or other ties with a dynamic stiffness of less than 4.8 MN/cu.m.
- Type B: Can only be used in external cavity walls subject to them also having the required structural capacity. They can be butterfly ties or other ties with a dynamic stiffness of less than 113 MN/cu.m.

**MATERIAL:** Cavity Wall Ties: Stainless steel. Thickness in table below.  
Insulation Clip: Black plastic.

**INSTALLATION:** For cavity walls with a leaf thickness of 90mm or more, unless otherwise specified place ties at 900mm centres horizontally, 450mm centres vertically and staggered where possible to a minimum density to be 2.5 ties per square metre.

Additional ties should be used at the unbonded vertical edges of an opening or at movement control joints. These should be placed 225mm from the joint, or opening, edge and at a maximum of 300mm centre to centre.

Ties should be embedded into each leaf by at least 50mm, however to allow for normal tolerances of cavity widths this is usually increased. When using insulation batts, it may be necessary to reduce the horizontal tie spacing to 600mm centres.

**IRC001**



**INSULATION RETAINING CLIP:**

- Suitable for use with all cavity wall ties.
- Used to hold insulation material back to structure.

Model No	Cavity	Dynamic Stiffness MN/cu.m	Approval Category
LWTS	50mm	55	Type B
	75mm	27	Type B

Model No	Description	Material (mm)	Cavity	Length (mm)
LWTS	DD140 Type 3	0.6 x 18	50-75	205
IRC001	Insulation Clip	75 Diameter	-	-

