

# BUYING - WALL TIES

The selection and specification of wall ties depends on many factors. These include type of brick/block to be tied, cavity width, type and height of building, location and design life. There are several documents which need to be consulted:

## DD140 : Part 2 : 1987 : Recommendations for the Design of Wall Ties.

This document gives recommendations for the design of wall ties for use in masonry and timber construction in the UK. Ties are classified by type. The relevant classification is determined by strength, function and use.

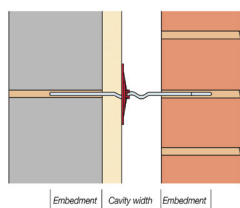
Types 1 to 4 cover masonry-to-masonry ties. Type 5 covers masonry-to-timber construction. The majority of cavity wall ties stocked by Dorsey are designed to the requirements of DD140 part 2. These ties provide cost savings over the BS1243 equivalents.

## BS 5628 : Part 1 : 1992 The Use of Masonry.

The Masonry Code allows wall ties to either DD140 or BS1243 to be used. Recommendations are given on embedment, length of tie, density and positioning.

### Wall Tie

DD140	APPLICATION	DENSITY	HEIGHT	WIND SPEED
Type 1	Heavy duty tie suitable for any building in the British Isles. These are rigid ties and not recommended for applications where there is expected to be excessive differential movement between two dissimilar materials.	2.5 per m <sup>2</sup>	any height	56m/s
Type 2	General purpose tie for domestic houses and small commercial buildings. These are flexible ties and will accommodate differential movements between leaves of dissimilar materials.	2.5 per m <sup>2</sup>	15m	56m/s
Type 4	Housing tie suitable for boxform domestic houses with walls comprising two leaves of similar thickness.	2.5 per m <sup>2</sup>	10m	44m/s (56m/s for towns & cities)
Type 5	Timber frame tie suitable for domestic houses and small commercial developments of up to two storeys.	4.4 per m <sup>2</sup>	15m	44m/s (52m/s for towns & cities)



### Recommended lengths of Masonry / Masonry Wall Ties

















Cavity (mm)	Wall Tie	Wall Tie
50-75	200	HRT4/RT2/ST1
76-100	225	HRT4/RT2/ST1
101-125	250	ST1
126-150	275	SD1
150	300*	ST1

\* These wall ties can be used in 126mm-150mm cavities if they are embedded further into the inner leaf.

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## WALL TIE & RESTRAINT FITTINGS

Dorsey are pleased to stock and sell the Ancon range of Wall Ties and Restraint Fixings. The following are the most popular styles and types of masonry-to-masonry and masonry-to-concrete / steel ties.

 <p><b>ST1</b> <i>Lengths (mm)</i> 200, 225, 250, 300</p>	 <p><b>SPV</b> <i>Lengths (mm)</i> 75, 100, 125, 150, 175, 200</p>
 <p><b>SD1</b> <i>Lengths (mm)</i> 200, 225, 250, 275, 300</p>	 <p><b>SDV</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225</p>
 <p><b>RT2 (Type 2)</b> <i>Lengths (mm)</i> 200, 225</p>	 <p><b>SPB</b> <i>Lengths (mm)</i> 75, 100, 125, 150, 175, 200</p>
 <p><b>HRT4 (Type 4)</b> <i>Lengths (mm)</i> 200, 225</p>	 <p><b>SDB</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225</p>
 <p><b>Butterfly</b> <i>Lengths (mm)</i> 200, 225, 250</p>	 <p><b>SP21</b> <i>Lengths (mm)</i> 75, 100, 125, 150, 175, 200</p>
 <p><b>PPS</b> <i>Lengths (mm)</i> 150, 200, 225, 250</p>	 <p><b>SD21</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225 Use with 21/18 Omega Channel</p>
 <p><b>PPB</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225</p>	 <p><b>PP21</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225</p>
 <p><b>PPV</b> <i>Lengths (mm)</i> 125, 150, 175, 200, 225</p>	 <p><b>Insulation Retaining Clip</b></p>