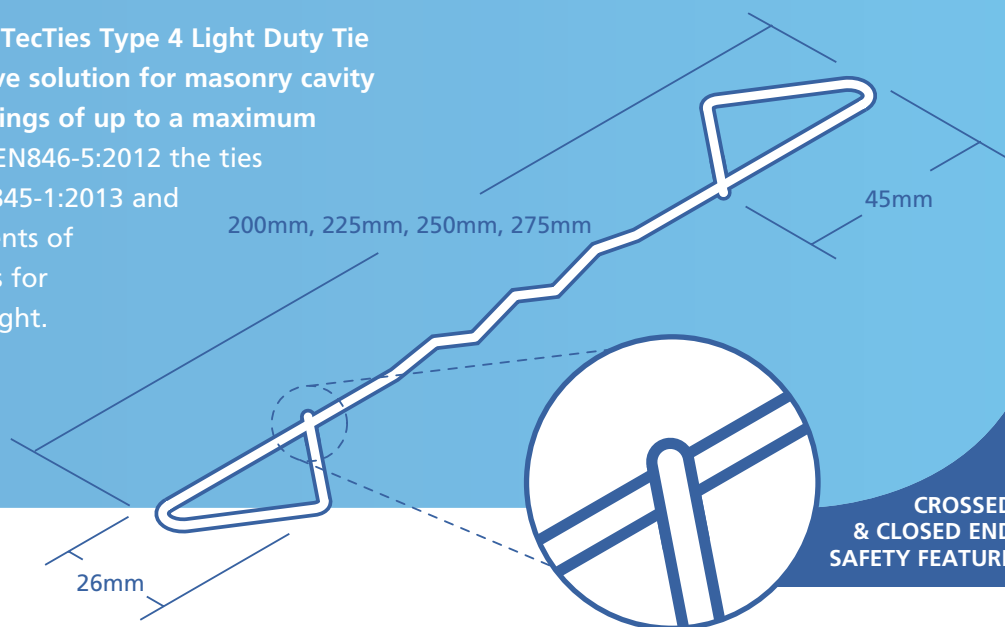


The unique **tangle free** design of TecTies Type 4 Light Duty Tie offers a practical and cost effective solution for masonry cavity walls in box form domestic dwellings of up to a maximum **10m in height**. Fully tested to BS EN846-5:2012 the ties meet the requirements of BS EN 845-1:2013 and they will also meet the requirements of Part E of the Building Regulations for a Type A in party walls of any height.

Unique crossed and closed end prevents entanglement



Size	Cavity Width
200mm	50mm to 75mm
225mm	76mm to 100mm
250mm	101mm to 125mm
275mm	126mm to 150mm

TT4 is a Registered Design. UK Reg. Design No. 3013341

All TecTies cavity wall ties are **independently tested at Lucideon, a notified body number 1289, to comply with BS EN 845-1:2013.**

### Design Advantages

- Tangle Free - saves time and money
- Supplied in bundles - practical benefits for the bricklayer
- Safety on site
- No Boxes - minimal packaging waste
- Better Storage particularly during inclement weather

### TT4 Test Results

	200mm	225mm	250mm	275mm
Compressive Load Capacity	350N	350N	520N	410N
Tensile Load Capacity	1040N	1040N	1241N	1839N
Displacement at 1/3 Load - Compression	0.19mm	0.19mm	0.16mm	0.09mm
Displacement at 1/3 Load - Tension	0.50mm	0.50mm	0.28mm	0.34mm

### Part E Building Regulations

TT4 Ties meet the requirements of Part E of the Building Regulations for a **Type A** tie in party walls which states that a masonry cavity wall tie can only be used if the measured dynamic stiffness is less than 4.8MN/m<sup>3</sup>.

### Selection of Cavity Wall Ties - Overleaf



In line with NHBC technical requirements.

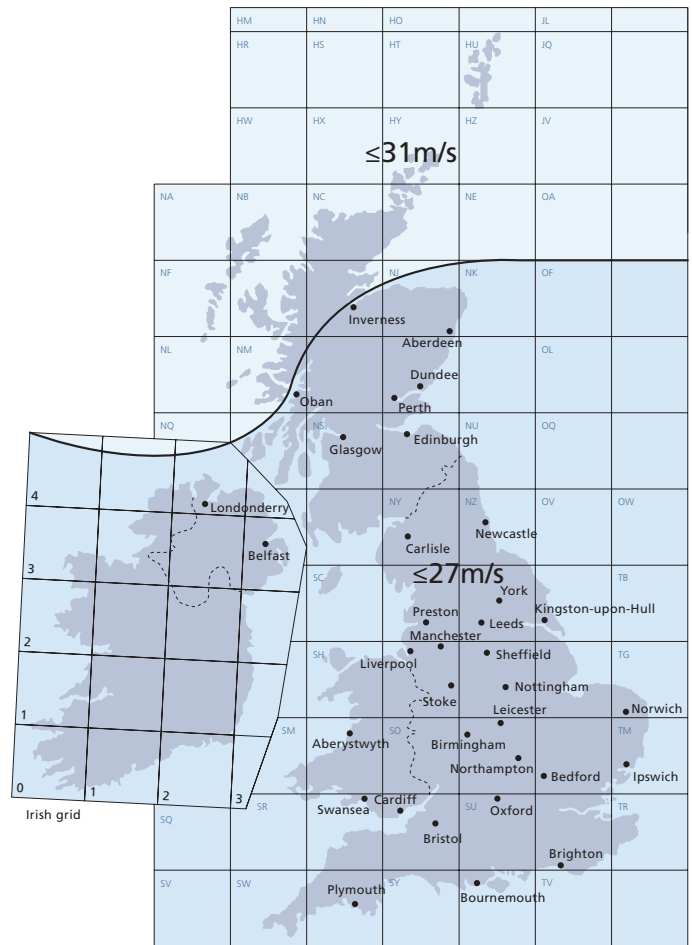
visit [www.tecties.co.uk](http://www.tecties.co.uk) for more information or call **01663 749361**

Unit 4 Hurstfield Ind. Estate, Hague Bar, New Mills, High Peak, SK22 3AT | tel: 01663 749361 fax: 01663 747897 email: sales@tecties.co.uk

### Selection of Cavity Wall Ties

There are a number of publications which contain the relevant information in selecting the correct wall tie and which take into account factors such as masonry type, cavity width, type and height of building and location.

- Eurocode 6 - Design of Masonry Structures (BS EN 1996-1-1:2005)
- BS EN 845-1:2013 Specification for ancillary components for masonry - Part 1: Ties, tension straps, hangers and brackets.
- PD 6697:2010 Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2
- BS 5628 Code of practice for the use of masonry (now withdrawn - refer to PD 6697)
- Approved document E: Resistance to the passage of sound
- BS EN 1991-1-4:2005 Wind Speeds



Wind Speed information taken from BS EN 1991-1-4:2005 for use with PD 6697:2010

### Field of use

Classification	Type of structure	Geographical location
Type 1. (Masonry: Heavy duty)	Suitable for most masonry cavity and cladding walls and most building sizes and types. Not very flexible and should not be specified where large adjustments are likely to be needed during construction, where large differential movements are expected to take place between the leaves, or where very low strength/density masonry units are in use.	Suitable for use on most sites. However, for relatively tall buildings located in the north western fringes of the UK - particularly on coastal sites - and for buildings of unusual shapes, the necessary tie provision should be calculated.
Type 2. (Masonry: General purpose)	Suitable for domestic dwellings and small commercial buildings of a height of up to 15 m above ground level, made with box-form masonry walls comprising two leaves of brickwork or blockwork of similar thickness in the range 90mm to 150mm. May be suitable for cavity walls having leaves of disparate thickness or stiffness or for cladding walls (having none or limited horizontal spanning capability) and for heights of buildings exceeding 15 m, but should only be used in these situations if shown to be of adequate performance by calculation.	Suitable for buildings on flat sites where the fundamental basic wind velocity is up to 31m/s except areas where the site is at an altitude of 150 m or more above sea level. May be adequate for higher altitudes and sloping sites exceeding a slope of 1 in 20 if calculated.
Type 3. (Masonry: Basic)	As Type 2	As Type 2 but fundamental basic wind velocity limited to 27 m/s
Type 4. (Masonry: Light duty)	Suitable only for masonry cavity walls, comprising two leaves of similar thickness in the range 90 mm to 150 mm, in box-form domestic dwellings of up to 10 m in height. Not suitable for cavity walls having leaves of disparate thickness or stiffness, for cladding walls of any type or for multi-storey structures, of more than three storeys. Suitable for internal separating cavity walls in most buildings.	Suitable for flat sites within towns and cities anywhere in the UK except the north western fringes of Scotland and Ireland (where the fundamental basic wind velocity exceeds 27 m/s) and any areas where the site is at an altitude of 150 m or more above sea level.



In line with NHBC technical requirements.