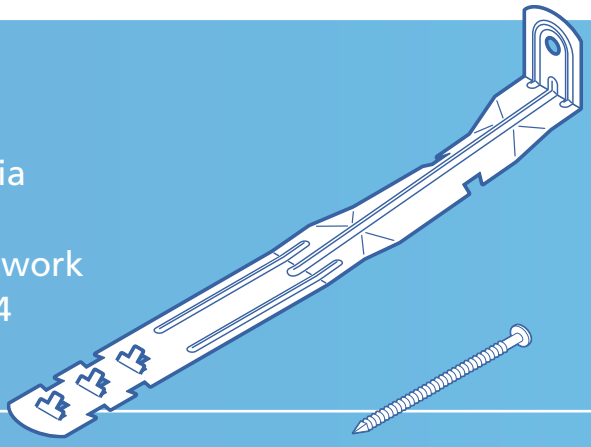
TTTF

Stainless Steel Timber Frame Wall Ties

The TecTies **Timber Frame Wall Ties** are manufactured with optimum design criteria to accommodate all types of timber frame structures. They can fix brickwork or blockwork to the timber frame up to a maximum of 4 storeys and 15m in height.



Fully tested to BS EN 845-1:2003. The ties meet the requirements of BS 5268-6.1:1996 as a Type 6 tie and meets the technical requirements of NHBC. It is recommended that TecTies Timber Frame Ties are installed at a density of 4.4 ties per square metre in buildings where the basic wind speed does not exceed 25m/s. This density should be increased to 7.0 ties per square metre in more severe situations.

TecTies Timber Frame Ties are supplied with stainless steel annular rings shank nails and manufactured in three sizes to suit 50 mm, 75 mm and 100 mm cavity widths.

All TecTies cavity wall ties are independently tested at Ceram Building Technology, a UKAS accredited laboratory NO 0013, in accordance with BS EN 846-6:2000

TTTF50 Tests on 50mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Test	Mean Load Capacity N		
	Timber Frame End	Mortar End	24mm Movement Tolerance
Tension	1305	2037	1349
Compression	1202	1026	930

TTTF75 Tests on 75mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Test	Mean Load Capacity N		
	Timber Frame End	Mortar End	24mm Movement Tolerance
Tension	1305	2037	1349
Compression	774	1026	759

TTTF100 Tests on 100mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Test	Mean Load Capacity N		
	Timber Frame End	Mortar End	24mm Movement Tolerance
Tension	1305	2037	1349
Compression	696	1026	761

visit **www.tecties.co.uk** for more information or call **01663 749361**

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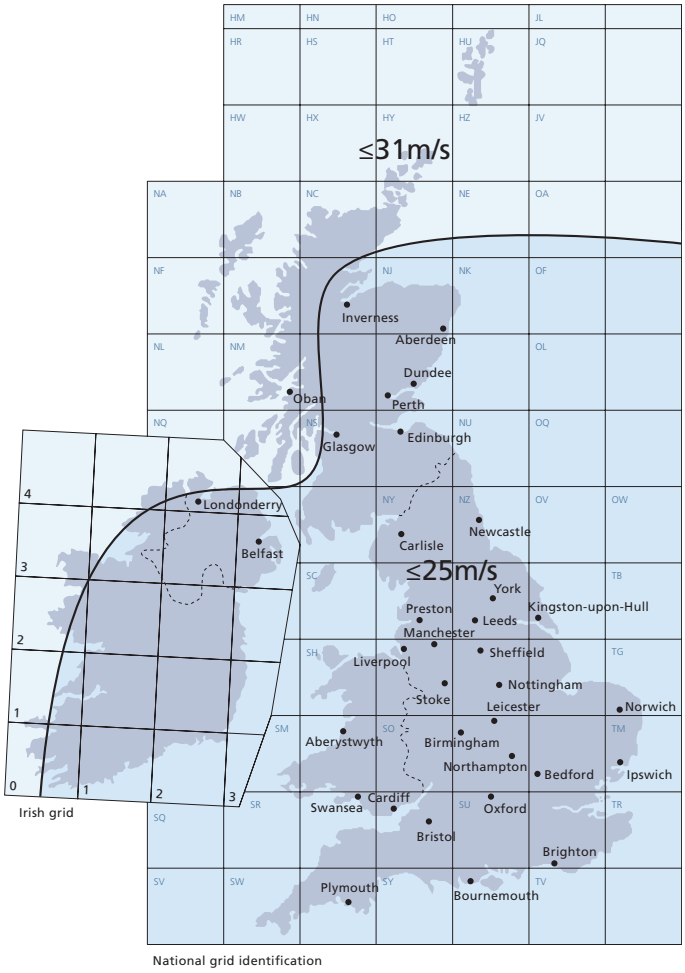
Selection of Cavity Wall Ties

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 845-1:2003 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**
- **BS5268-6.1: 1996 Structural use of timber - Dwellings not exceeding seven storeys**
- **BS 6399-2: 1997 code of practice for wind loads**

Wind Speed information taken from BS 6399-2: 1997 for use with BS 5268-6.1: 1996



Field of use
Masonry-to-Timber Tie Types to BS 5268-6.1: 1996

Type	Application	Density	Maximum Building Height	Geographical Location
Type 5	Timber frame tie suitable for domestic houses and industrial/commercial developments of up to three storeys	4.4 ties/m² 3-4 ties/m at unbonded edges	15m	Suitable for flat sites in towns and cities where the basic wind speed does not exceed 25m/s and altitude is not more than 150m above sea level
Type 6	As Type 5 but suitable for developments of up to four storeys	As Type 5	15m	Suitable for flat sites in towns and cities where the basic wind speed does not exceed 25m/s and altitude is not more than 150m above sea level
Type 7	As Type 5 but suitable for developments of between five and seven storeys, being designed to accommodate the increased vertical differential movement.	Calculated for actual performance required for each site location	18m	Calculated for actual performance required for each site location

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