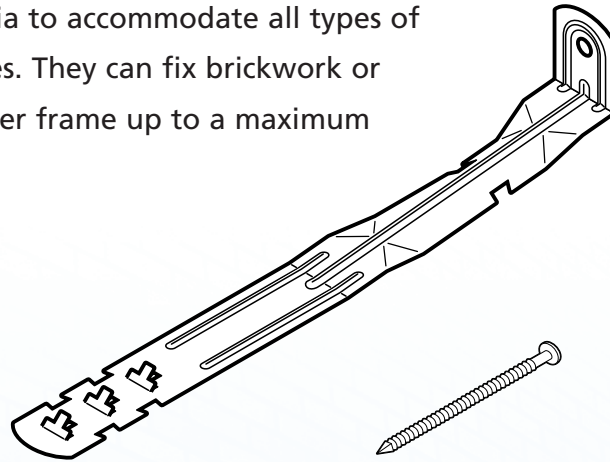


TTTF Stainless Steel Timber Frame Wall Ties



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 in height.



Fully tested to BS EN 846-1:2003. The ties meet the requirements of DD140: Part 2 as a Type 6 tie and achieves 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.

Summary of Maximum Declared Values for Tec-Ties 50 mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Mode of Test	Test	Maximum Declared Value (N)	EN845-1 Required Value * (N)
Tie fixed to timber as received	Tension	873	650
	Compression	1202	350
Tie fixed to timber with 24mm movement	Tension	921	650
	Compression	792	350
Tie built into brick couplet	Tension	2037	650
	Compression	718	350

* Values compared with Timber Frame requirements of the defunct BS EN845-1:2001 which was superseded by BS EN 845-1:2003 which has no defined performance limits in tension and compression.

Summary of Characteristic Values to DD140 of the Tec-Ties Ltd 50 mm cavity Timber Frame Wall Tie

Mode of Test	Test	Load at 1mm serviceability Deflection (N)	¹ DD140 recommendation at 1mm serviceability (N)	Load at Failure (N)	¹ DD140 recommendation at failure (N)
Tie fixed to timber as received	Tension	339	175	1244	660
	Compression	575	125	1136	455
Tie fixed to timber with 24mm movement	Tension	403	175	1288	660
	Compression	288	125	877	455
Tie built into brick couplet	Tension	1293	175	1885	660
	Compression	830	125	935	455

¹Note. the tie has been compared against the DD140 recommendations for a Type 6 tie with a 24 mm simulated timber shrinkage allowing the tie to be used up to 4 storey heights.



Summary of Maximum Declared Values for Tec-Ties 75 mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Mode of Test	Test	Maximum Declared Value (N)	EN845-1 Required Value * (N)
Tie fixed to timber as received	Tension	873	650
	Compression	774	350
Tie fixed to timber with 24mm movement	Tension	921	650
	Compression	759	350
Tie built into brick couplet	Tension	2037	650
	Compression	718	350

* Values compared with Timber Frame requirements of the defunct BS EN845-1:2201 which was superseded by BS EN 845-1:2003 which has no defined performance limits in tension and compression.

Summary of Characteristic Values to DD140 of the Tec-Ties Ltd 75 mm cavity Timber Frame Wall Tie

Mode of Test	Test	Load at 1mm serviceability Deflection (N)	¹ DD140 recommendation at 1mm serviceability (N)	Load at Failure (N)	¹ DD140 recommendation at failure (N)
Tie fixed to timber as received	Tension	339	175	1244	660
	Compression	349	125	695	455
Tie fixed to timber with 24mm movement	Tension	403	175	1288	660
	Compression	309	125	717	455
Tie built into brick couplet	Tension	1293	175	1885	660
	Compression	830	125	935	455

¹Note. the tie has been compared against the DD140 recommendations for a Type 6 tie with a 24 mm simulated timber shrinkage allowing the tie to be used up to 4 storey heights.

Summary of Maximum Declared Values for Tec-Ties 100 mm cavity Timber Frame Wall Ties to BS EN845-1:2003

Mode of Test	Test	Maximum Declared Value (N)	EN845-1 Required Value * (N)
Tie fixed to timber as received	Tension	873	650
	Compression	696	350
Tie fixed to timber with 24mm movement	Tension	921	650
	Compression	761	350
Tie built into brick couplet	Tension	2037	650
	Compression	718	350

* Values compared with Timber Frame requirements of the defunct BS EN845-1:2201 which was superseded by BS EN 845-1:2003 which has no defined performance limits in tension and compression.

Summary of Characteristic Values to DD140 of the Tec-Ties Ltd 100 mm cavity Timber Frame Wall Tie

Mode of Test	Test	Load at 1mm serviceability Deflection (N)	¹ DD140 recommendation at 1mm serviceability (N)	Load at Failure (N)	¹ DD140 recommendation at failure (N)
Tie fixed to timber as received	Tension	339	175	1244	660
	Compression	306	125	620	455
Tie fixed to timber with 24mm movement	Tension	403	175	1288	660
	Compression	270	125	722	455
Tie built into brick couplet	Tension	1293	175	1885	660
	Compression	830	125	935	455

¹Note. the tie has been compared against the DD140 recommendations for a Type 6 tie with a 24 mm simulated timber shrinkage allowing the tie to be used up to 4 storey heights.