

TESTS ON CPSI LTD 170 MM LONG SURETWIST PLUS TIMBER FRAME WALL TIES TO BS EN 846-6:2012

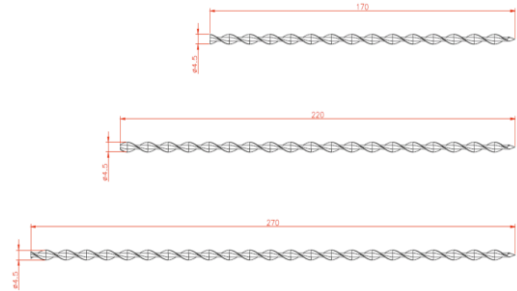
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Product

170 mm long, 4.5 mm diameter SureTwist Timber Frame Wall Tie Tested to BS EN 846-6:2012 tested over a cavity of 50 mm in tension and 65 mm in compression.



Client

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Test Results

Test	Tested End Detail	Mean displacement at one third of the mean load capacity (mm)	Mean Load Capacity (N)	Maximum Declared value (N)
Tension	Masonry	0.32	1060	1060
Compression	Masonry	0.06	2030	
Tension	Timber as received	0.48	1200	1200
Compression	Timber as received	0.47	1200	
Tension	24 mm Timber Shrinkage	0.22	1030	1030
Compression	24 mm Timber Shrinkage	0.42	1100	

Guidance

The Manufacturer includes in his declaration and trade literature a load capacity which depends on the mean value from the tests carried out in tension and compression. In addition no individual load capacity must be less than 70% of the declared value and the mean displacement at one third of the declared value must be declared.

Based on the results given in the table, the maximum declared value is the lowest individual result which is 1030 N for the 170 mm Tie tested over a 50 mm cavity in tension and 65 mm in compression.

It is the manufacturer's responsibility to apply a suitable safety factor to the declared value.

Authorised by:

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