

## TESTS ON CPSI LTD 270 MM LONG SURETWIST PLUS TIMBER FRAME WALL TIES TO BS EN 846-6:2012

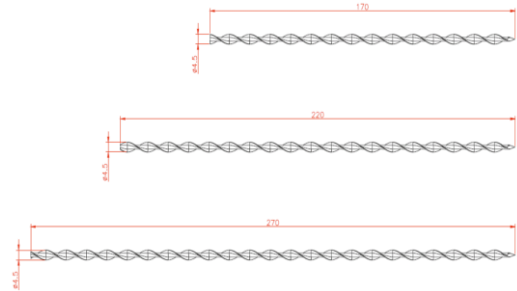
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### Product

270 mm long, 4.5mm diameter SureTwist Timber Frame Wall Tie Tested to BS EN 846-6:2012 over a cavity of 150 mm in tension and 165 mm in compression.



### Client

#### Construction Products Solutions International Ltd

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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	720
Compression	Masonry	0.06	720	
Tension	Timber as received	0.48	1200	640
Compression	Timber as received	0.18	640	
Tension	24 mm Timber Shrinkage	0.34	1050	560
Compression	24 mm Timber Shrinkage	0.22	560	

### 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 560 N for the 270 mm Tie tested over a 150 mm cavity in tension and 165 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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