

TESTS ON CPSI LTD 220 MM LONG SURETWIST PLUS TIMBER FRAME WALL TIES TO BS EN 846-6:2012

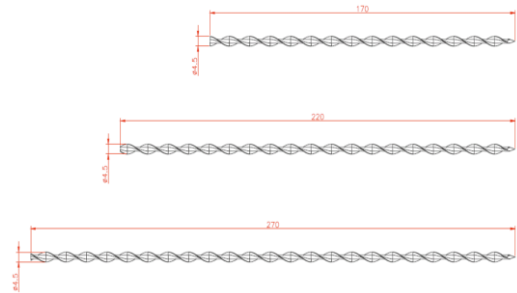
Certificate No. 2015/2

Test Reference: 15639/Ref.2 & 5

Issue Date: 29th April 2015

Product

220 mm long, 4.5 mm diameter SureTwist Timber Frame Wall Tie Tested to BS EN 846-6:2012 over a cavity of 100 mm in tension and 115 mm in compression.



Client

Construction Products Solutions International Ltd

Unit 3 Haslemere Industrial Estate
Pig Lane
Bishops Stortford
Hertfordshire
CM23 3HG

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	0.18	1430	
Tension	Timber as received	0.48	1200	980
Compression	Timber as received	0.26	980	
Tension	24 mm Timber Shrinkage	0.53	950	840
Compression	24 mm Timber Shrinkage	0.50	840	

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 840 N for the 220 mm Tie tested over a 100 mm cavity in tension and 115 mm in compression.

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

Authorised by:

Joanne Booth
Manager
Structures and Facilities