



# Declaration of Performance



DoP Number: **DoP-h17/0011**  
Issue: 1.0

- 1 **Unique Identification Code:** TTZNFS
- 2 **Intended Use:** For use in load bearing timber structures
- 3 **Manufacturer:** Simpson Strong-Tie Int. Ltd.  
*For local branch addresses refer to* [www.strongtie.eu](http://www.strongtie.eu)
- 4 **Authorised Representative:** N/A
- 5 **System of Assessment:** 3

## 6 Harmonized Standard or European Assessment Document

hEN Number	Notified Body Number	ITTR Number
EN 14592:2008+A1:2012	1015 & 1235	ITTR-17/0011

- 7 **Declared Performance:** (see also pages 2 and/or 3) NPD = No Performance Determined

### Durability

Material (5) / Corrosion Protection	Service Class
Impreg <sup>®</sup> + - 8µm	Service Class 3

### Notes:

- (1) EN14592 clause 6.3.4.1 - 6.3.4.2; Tested to EN 409
- (2) EN14592 clause 6.3.4.3; Tested to EN1382, characteristic timber density 350 kg/m<sup>3</sup>
- (3) EN14592 clause 6.3.4.4; Tested to EN1383, characteristic timber density 350 kg/m<sup>3</sup>
- (4) EN14592 clause 6.3.4.4; Tested to EN1383, characteristic timber density 350 kg/m<sup>3</sup>
- (5) EN14592 clause 6.3.5
- (6) EN14592 clause 6.3.4.6; Tested to EN ISO 10666, characteristic timber density 375\*/393\*\*kg/m<sup>3</sup>

## 8 Appropriate Technical Documentation and/or Specific Technical Documentation

N/A

The performance of the product/s identified above are in conformity with the set of declared performance/s.

This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above

Signed for on behalf of the manufacturer by:

**Laurent Versluysen**

European Managing Director

(Sainte Gemme La Plaine, Fr.)

25/10/2017



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## Geometry (mm unless otherwise stated)

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Size	Nominal Diameter - d	Length - L	Head Diameter - dh	Inner Thread Diameter - d1	Thread Length - lg
4.5x25	4.5	25	8.4	2.8	20
4.5x30	4.5	30	8.4	2.8	25
4.5x40	4.5	40	8.4	2.8	35
4.5x50	4.5	50	8.4	2.8	30
4.5x60	4.5	60	8.4	2.8	35
4.5x70	4.5	70	8.4	2.8	40
5x50	5	50	9.5	3.2	30
5x60	5	60	9.5	3.2	35
5x70	5	70	9.5	3.2	40
5x80	5	80	9.5	3.2	40
5x90	5	90	9.5	3.2	45
5x100	5	100	9.5	3.2	60
5x120	5	120	9.5	3.2	60
6x60	6	60	11.6	3.8	35
6x70	6	70	11.6	3.8	40
6x80	6	80	11.6	3.8	40
6x90	6	90	11.6	3.8	45
6x100	6	100	11.6	3.8	60
6x120	6	120	11.6	3.8	70
6x140	6	140	11.6	3.8	70
6x160	6	160	11.6	3.8	70
6x180	6	180	11.6	3.8	70



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## Mechanical Strength & Stiffness

Size	Yield Moment - My,k [Nmm] (1)	Withdrawal Parameter - fax,k [N/mm <sup>2</sup> ] (2)	Head Pull Through Parameter - fhead,k [N/mm <sup>2</sup> ] (3)	Characteristic Tensile Capacity - ftens,k [kN] (4)	Torsional ratio (6)
4.5x25	5452	19.2	16.8	7.6	2.9*
4.5x30					
4.5x40					
4.5x50					
4.5x60					
4.5x70					
5x50	7602	13.2	18.2	9.3	3.2**
5x60					
5x70					
5x80					
5x90					
5x100					
5x120	12280	17.2	20.3	12.4	3.2*
6x60					
6x70					
6x80					
6x90					
6x100					
6x120					
6x140					
6x160					
6x180					