



# Declaration of Performance



DoP Number: **DoP-h17/0019**

Issue: 1.0

- 1 **Unique Identification Code:** ARA4 - ARA2
- 2 **Intended Use:** For use in load bearing timber structures
- 3 **Manufacture:** 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	1235	ITTR-17/0019

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

### Durability

Material (5) / Corrosion Protection	Service Class
1.4401 Stainless Steel	Service Class 3
1.4301 Stainless Steel	Service Class 3

### Notes:

- (1) EN14592 clause 6.1.4.1 - 6.1.4.2; Tested to EN 409
- (2) EN14592 clause 6.1.4.3; Tested to EN1382, characteristic timber density 350 kg/m<sup>3</sup>
- (3) EN14592 clause 6.1.4.4; Tested to EN1383, characteristic timber density 350 kg/m<sup>3</sup>
- (4) EN14592 clause 6.1.4.4; Tested to EN1383, characteristic timber density 350 kg/m<sup>3</sup>
- (5) EN14592 clause 6.1.5

- 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.)

26/10/2017



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## Geometry (mm unless otherwise stated)

1.0

Size	Nominal Diameter - d	Length - L	Head Diameter - dh	Head Area - Ah - [mm <sup>2</sup> ]	Head thickness - ht	Thread Length - lg	Point Length - lp
2.3x35	2.3	35.0	5.5	20.4	1.3	27.0	3.2
2.3x45	2.3	45.0	5.5	24.6	1.2	32.0	2.4
2.3x50	2.3	50.0	5.5	23.8	1.4	37.0	2.9
2.5x60	2.5	60.0	5.7	25.5	1.3	42.0	3.4
3.1x75	3.1	75.0	7.5	44.2	1.8	46.0	4.3
3.1x75*	3.1	75.0	7.5	44.2	1.6	46.0	4.7

\*1.4301

## 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)
2.3x35	1839	8.5	22.8	3.2
2.3x45				
2.3x50	1784	6.2	29.3	3.2
2.5x60	2257	6.0	27.2	3.5
3.1x75	4409	7.1	-	5.7
3.1x75*	3926	7.1	-	5.2

\*1.4301