



Declaration of Performance



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

Issue: 2.0

- 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
- 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	1235/1015	ITTR-17/0019

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

Durability

Version:	Material (5) / Corrosion Protection	Service Class
A4	1.4401 Stainless Steel	Service Class 3
A2	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/m³
- (3) EN14592 clause 6.1.4.4; Tested to EN1383, characteristic timber density 350 kg/m³
- (4) EN14592 clause 6.1.4.4; Tested to EN1383, characteristic timber density 350 kg/m³
- (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.)

20/03/2018



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Geometry (mm unless otherwise stated)

2.0

Size	Nominal Diameter - d	Length - L	Head Diameter - dh	Head Area - Ah - [mm ²]	Head thickness - ht	Thread Length - lg	Point Length - lp
2.3x25 A4	2.3	25.0	5.5	23.5	1.2	17.0	3.2
2.3x30 A4	2.3	30.0	5.5	23.5	1.2	22.0	3.2
2.3x35 A4	2.3	35.0	5.5	23.5	1.2	27.0	3.2
2.3x45 A4	2.3	45.0	5.5	23.5	1.2	32.0	3.2
2.3x50 A4	2.3	50.0	5.5	23.5	1.2	37.0	3.2
2.5x20 A4	2.5	20.0	5.7	25.5	1.3	16.0	3.5
2.5x30 A4	2.5	30.0	5.7	25.5	1.3	22.0	3.5
2.5x60 A4	2.5	60.0	5.7	25.5	1.3	42.0	3.5
3.1x30 A4	3.1	30.0	7.5	44.2	1.6	17.0	4.3
3.1x38 A4	3.1	38.0	7.5	44.2	1.6	27.0	4.3
3.1x45 A4	3.1	45.0	7.5	44.2	1.6	32.0	4.3
3.1x50 A4	3.1	50.0	7.5	44.2	1.6	39.0	4.3
3.1x60 A4	3.1	60.0	7.5	44.2	1.6	42.0	4.3
3.1x75 A4	3.1	75.0	7.5	44.2	1.6	46.0	4.3
3.1x85 A4	3.1	85.0	7.5	44.2	1.6	52.0	4.3
2.3x35 A2	2.3	35.0	5.5	23.5	1.2	27.0	3.2
2.3x45 A2	2.3	45.0	5.5	23.5	1.2	32.0	3.2
2.3x50 A2	2.3	50.0	5.5	23.5	1.2	37.0	3.2
3.1x75 A2	3.1	75.0	7.5	44.2	1.6	46.0	4.3

Mechanical Strength & Stiffness

Size	Yield Moment - My,k [Nmm] (1)	Withdrawal Parameter - fax,k [N/mm ²] (2)	Head Pull Through Parameter - fhead,k [N/mm ²] (3)	Characteristic Tensile Capacity - ftens,k [kN] (4)
2.3x25 A4	1784	6.2	29.3	3.2
2.3x30 A4				
2.3x35 A4				
2.3x45 A4				
2.3x50 A4				
2.5x20 A4	2257	6.0	27.2	3.5
2.5x30 A4				
2.5x60 A4				
3.1x30 A4	4409	7.1	-	5.7
3.1x38 A4				
3.1x45 A4				
3.1x50 A4				
3.1x60 A4				
3.1x75 A4				
3.1x85 A4				
2.3x35 A2	1839	8.5	22.8	3.2
2.3x45 A2				
2.3x50 A2				
3.1x75 A2	3926	7.4	-	5.2