



# Declaration of Performance



DoP-h07/0002-03

1. *Unique Identification code:* BTS, SWT
2. *Intended use/es:* Asymmetrical Wall Tie For Connecting Timber Frame Walls, or SIP's to Masonry Walls
3. *Manufacturer:* Simpson Strong-Tie Europe EURL, ZAC des 4 Chemins, 85400 Sainte Gemme la Plaine, France  
For local branch addresses, refer to [www.strongtie.eu](http://www.strongtie.eu)
4. *Authorised Representative:* N/A
5. *System/s of AVCP:* 3
6. *Designated Standard:*

EN Number	Notified Body Number
BS EN 845-1:2016	1020

7. *Declared Performance/s:*

Essential Characteristics	Performance		Technical Specification
<b>RANGE</b>			
Product Family	<b>BTS</b> (Cavities 50 to 100mm)	<b>SWT</b> (Cavities 50 to 100mm)	
<b>MECHANICAL STRENGTH &amp; STIFFNESS</b>			
Tensile Strength	601 N	714 N	EN 845-1 clause 5.3.1.2.1; EN 846-5
Displacement Under Load <sup>[c]</sup>	0.99 mm	0.67 mm	EN 845-1 clause 5.3.1.2.3
Failure Mode	5mm DISPLACEMENT		
Compressive Strength (Design Cavity + 15mm)	260 N	260 N	EN 845-1 clause 5.3.1.2.2; EN 846-5
Displacement Under Load <sup>[c]</sup>	0.37 mm	0.37 mm	EN 845-1 clause 5.3.1.2.3
Compressive Strength (Design Cavity)	414 N	414 N	EN 845-1 clause 5.3.1.2.2; EN 846-5
Displacement Under Load <sup>[c]</sup>	0.38 mm	0.38 mm	EN 845-1 clause 5.3.1.2.3
Failure Mode	BUCKING OF TIE		
Water Shedding Capability	RESISTANT		EN 845-1 clause 5.4
Minimum Mortar Embedment Depth	60 mm		EN 845-1 clause 5.2.2.1
Minimum Mortar Joint Thickness	10 mm		EN 845-1 clause 5.2.3.1
Minimum Mortar Class	Type 2		
<b>DURABILITY</b>			
Material	Austenitic Stainless Steel Grades: 1.4301		EN 10088-3
Corrosion Protection	Material/Coating Reference: 03		EN 845-1 Table A.1
Dangerous Substances	None		

- a) Performance of structural behavior and structural design calculation requirements can be found at: N/A
- b) NPD = No Performance Determined
- c) Displacement at 1/3 of the Declared Strength

8. *Appropriate Technical Documentation and/or Specific Technical Documentation:* N/A

*The performance of the product/s identified above is 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 and on behalf of the manufacturer by:*

**Lars Dahl**  
Director, EU Operations  
(Sainte Gemme La Plaine, Fr 27/10/2022)