



Declaration of Performance



DoP-h10/0007-04

1. **Product Type:** Toothed-Plate Connectors
2. **Identification:** C1, C2, C3, C4, C5, DSTC and SSTC
3. **Intended Use:** Shear Connectors for Structural Timber Products
4. **Manufacturer:** Simpson Strong-Tie Int. Ltd
For local branch addresses refer to www.strongtie.eu
5. **Authorised Representative:** N/A
6. **System of Assessment:** 2+
- 7, 8. **Technical Specifications & Notified Bodies:**

	Name	No.	System of Assessment	Document Reference	EAD (ETAG) No. EN Standard
Technical Assessment	Simpson Strong-Tie	-	2+	ITTR-10/0007	EN14545:2008
Factory Production Control	British Board of Agrément	0836	2+	0836-CPD-09/F018	-

9. **Declared Performance:**

Essential Characteristics	Performance										Technical Specification
RANGE											
Model Number	C1, C2, DSTC, SSTC							C3, C4	C5		
GEOMETRY											
Diameter – d_c (mm)	50	62	75	95	117	140	165	-	100	130	EN912
Length a_1 x a_2 (mm)	-	-	-	-	-	-	-	73x130	-	-	EN912
MECHANICAL STRENGTH & STIFFNESS											
Characteristic Load Bearing Capacity – $R_{c,k}$ (kN)	6,36	8,79	11,69	16,67	22,78	29,82	38,15	17,20	18,0	26,68	EN 14545 Clause 6.1.3; EN 13271
Characteristic Slip Modulus – K_{ser} (kN/mm)	5,25	6,51	7,88	9,98	12,29	14,70	17,33	10,19	10,5	13,65	EN 14545 Clause 6.1.3; EN 13271
DURABILITY											
Material	Mild Steel:HC340LA Galvanized Mild Steel: DX51D & S250GD									EN 10268 EN 10346	
Corrosion Protection	Galvanized Steel:Z275: Hot Dip Galvanized: $\geq 45\mu\text{m}$:									Service Classes 1 & 2 to EN1995-1-1 EN 10346 Service Classes 1, 2 & 3 to EN1995-1-1 EN 1461	

10. The performance of the products identified in points 1. & 2. is in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Michael Andersen
Vice President, European Operations
(Sainte Gemme La Plaine, Fr. 16/11/2020)