

# Truss Connectors

## TCP Truss Clip

The TCP truss clip provides a connection between girders, trusses and rafters and top plates to provide resistance to high-wind loads. It is also ideal for strongback attachments and as an all-purpose connector where one member crosses another.

- The speed prong provides temporary attachment for ease of installation.
- Obround holes make driving nails easier.

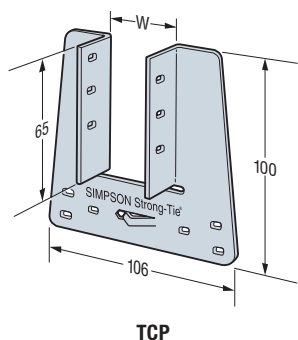
**Material:** 0.9mm thick.

**Finish:** Galvanised. See Corrosion Information.

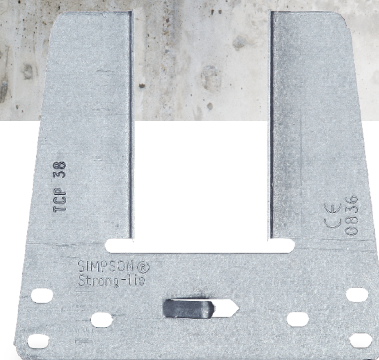
### Installation

- Use all specified fasteners. See General Notes.

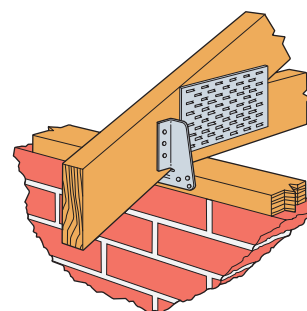
### Typical Installation



TCP



TCP38



Typical TCP installation

### TCP Technical Data

Model No.	Truss/Rafter (mm)	Width (mm)	Fasteners (No. – Length x Dia., mm)		Country	Design Uplift Capacity (kN)
			To Truss	To Plate		
TCP38	35	38	6 – 40 x 3.75	6 – 40 x 3.75	AU	$k_1 = 1.14$ 1.83
					NZ	$k_1 = 1.0$ 1.72
TCP47	45	47	6 – 40 x 3.75	6 – 40 x 3.75	AU	$k_1 = 1.14$ 2.19
					NZ	$k_1 = 1.0$ 2.07
TCP50	50	50	6 – 40 x 3.75	6 – 40 x 3.75	AU	$k_1 = 1.14$ 1.83
					NZ	$k_1 = 1.0$ 1.72

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the Australian Capacity Factor, or the NZ Strength Reduction Factor ( $\phi$ ), and applicable the k modification factors following AS 1720.1 and NZS 3603 and (2) the Serviceability Capacity which is the load at 3.2mm joint slip. Design Capacity is the minimum of test data and structural joint calculation.
2. For Australia, the Capacity Factor ( $\phi$ ) is 0.85 for nails and screws for structural joints in a Category 1 application. Reduce tabulated values where other Category applications govern. For NZ, the Strength Reduction Factor ( $\phi$ ) is 0.80 for nails in lateral loading.
3. Duration of Load Factor ( $k_1$ ) is as shown. Reduce Duration of Load Factor where applicable. Capacities may not be increased.
4. Timber species for joint design is seasoned Radiata Pine, which is Australia Joint Group JD4 per AS 1720.1 Table H2.4 and New Zealand Joint Group J5 per NZS 3603 Table 4.1.