

CJT — Concealed Joist Tie

Material: Carbon Steel 2.7mm thick

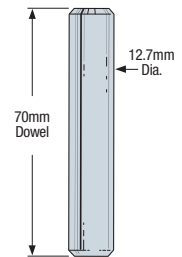
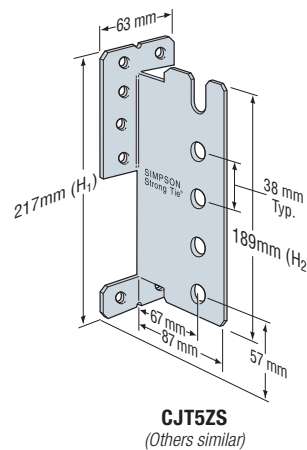
Finish: ZMAX® Galvanised



Size: See illustration on the right and table below

Features & Benefits

- Manufactured in heavier gauge steel for a stronger connection
- Can be installed three ways: with no routing of the header/post or beam (for a quicker installation) or with the header/post or beam routed for a flush look
- Joists can be sloped up to 45° angle with full table loads
- This connector can be used for end of header joists or corner connections
- Tested and load-rated engineering data available
- Suitable for Glulam and solid sawn timber
- All pins and fasteners needed for installation are included

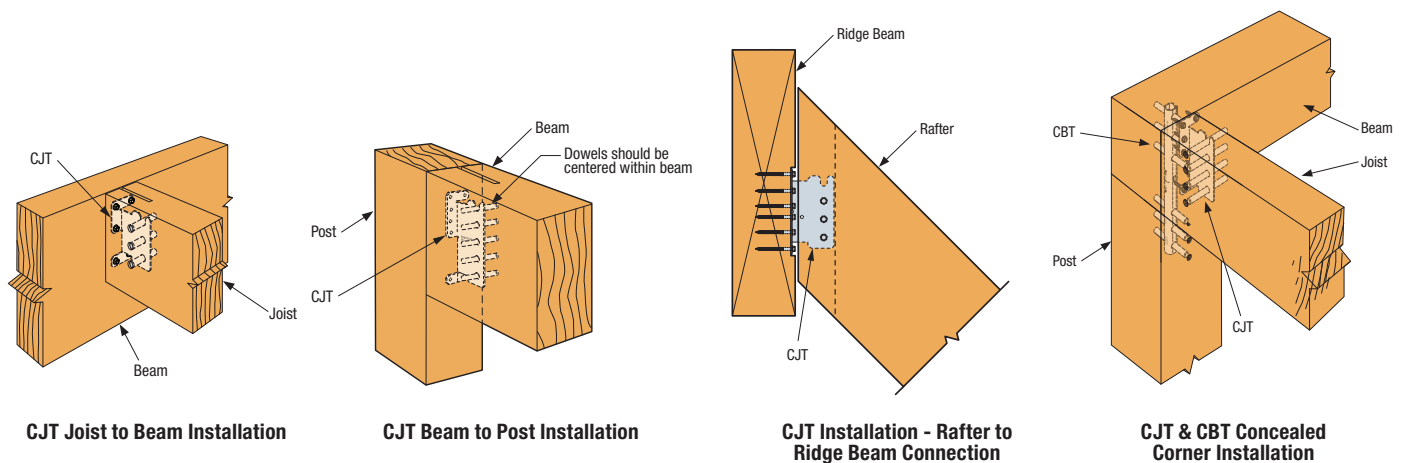


Chamfered Steel Dowel

Installation

- Use all specified fasteners
- The CJT Kit comes complete with 70mm dowels and Simpson Strong-Tie® Strong-Drive® 6.4mm x 76mm Heavy-Duty Connector screws. Screws require a hex-head driver
- Router end of beam for screw heads for flush installation
- The carried member may be sloped up or down to 45° with full table loads
- To provide maximum beam width for use with short dowels, centre in beam

Construction Details



CJT Technical Data

Model No.	Min. Joist Size	Dimensions (mm)		Fasteners		Uplift k _i = 1.0	Design Capacity (kN)	
		H1	H2	Post (No. – Length x Dia., mm)	Joist Pins (No. – 12.7 x 70mm)		Download	
							Floor k _i = 0.8	Roof k _i = 0.8
CJT3ZS	90 x 140	141	113	6 – SDS6.4 x 76	3	2.38	5.65	5.65
	90 x 184	141	113	6 – SDS6.4 x 76	3	3.91	8.43	8.43
CJT4ZS	90 x 235	178	151	8 – SDS6.4 x 76	4	5.96	13.22	13.22
CJT5ZS	90 x 286	217	189	10 – SDS6.4 x 76	5	7.80	15.74	15.74
CJT6ZS	90 x 286	254	227	12 – SDS6.4 x 76	6	9.94	18.11	18.11

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the NZ Strength Reduction Factor (ϕ), and applicable the k modification factors following 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 NZ, the Strength Reduction Factor (ϕ) is 0.80 for nails in lateral load and 0.70 for other fasteners.
3. Duration of Load Factor (k_i) 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 New Zealand Joint Group J5 per NZS 3603 Table 4.1.