

BC — Post Cap

Material: Carbon Steel 1.3mm thick

Finish:

ZMAX® Galvanised: BC4Z; BC6Z

316 Stainless Steel: BC4SS; BC6SS

Size: BC4Z, BC4SS - 90mm x 90mm x 152mm
BC6Z, BC6SS - 140mm x 140mm x 172mm



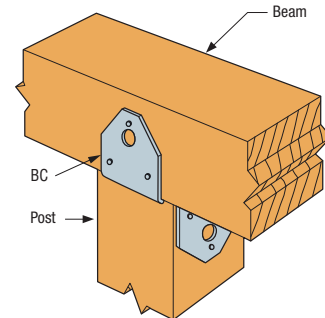
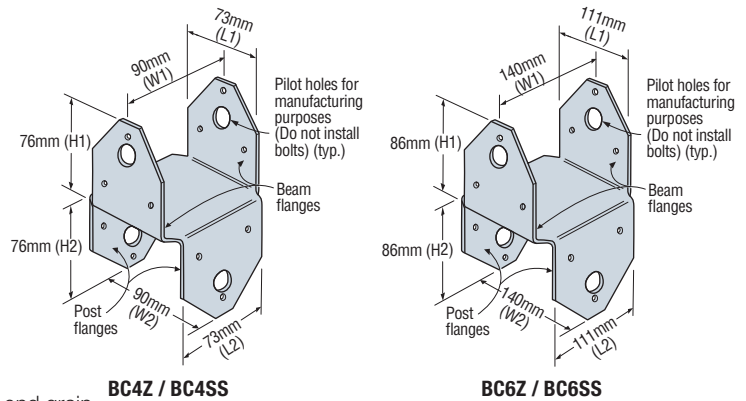
Features & Benefits

- Easy to install
- Suits 90 mm square post and 90 mm beam or 140 mm square post and 140 mm beam
- Stronger than toenailing or screw fastening
- Reduces the chance of the post splitting and eliminates nailing into end grain
- Great for use on patios and decks
- Compatible with Strong-Drive®SD Connector Screws
- Available in 316 Stainless Steel for more corrosive environments such as coastal areas

Installation

- Use all specified fasteners
- Do not install bolts into pilot holes
- Install with 3.75 x 64mm nails or Strong-Drive®SD Connector Screws
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports)
- To tie multiple 2x members together, the Designer must determine the fasteners required to join members to act as one unit without splitting the wood

Construction Details



BC4/BC6 Post Cap Installation

BC Technical Data

| Model No. | Dimensions (mm) | | | | | | Fasteners (No. – Length x Dia., mm) | | Australia | | New Zealand | |
|--------------|-----------------|----------------|----------------|----------------|----------------|----------------|-------------------------------------|-------------------|---------------------------------|----------------------------------|--------------------------------|---------------------------------|
| | W ₁ | W ₂ | L ₁ | L ₂ | H ₁ | H ₂ | Beam Flange | Post Flange | Uplift k _i = 1.14 | Lateral k _i = 1.14 | Uplift k _i = 1.0 | Lateral k _i = 1.0 |
| BC4Z | 90 | 90 | 73 | 73 | 76 | 76 | 6 – 64x3.75 | 6 – 64x3.75 | 3.8 | 4.1 | 3.8 | 4.1 |
| BC4SS | | | | | | | 6 – 64x3.75 SCNR | 6 – 64x3.75 SCNR | | | | |
| BC6Z | 140 | 140 | 111 | 111 | 86 | 86 | 12 – 64x3.75 | 12 – 64x3.75 | 4.4 | 8.7 | 4.4 | 8.7 |
| BC6SS | | | | | | | 12 – 64x3.75 SCNR | 12 – 64x3.75 SCNR | | | | |

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the Australian Capacity Factor, or the NZ Strength Reduction Factor (ϕ), and applicable the k modification factors following AS 1720.1 and NZS 3603 and (2) the Serviceability Capacity which is the load at 3.2 mm joint slip. Design Capacity is the minimum of test data and structural joint calculation
2. For Australia, the Capacity Factor (ϕ) 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 (ϕ) is 0.80 for nails in lateral loading.
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 Australia Joint Group JD4 per AS 1720.1 Table H2.4 and New Zealand Joint Group J5 per NZS 3603 Table 4.1.
5. Allowable loads have been increased for wind or earthquake with no further increase allowed; reduce where other loads govern.
6. Structural composite timber columns have sides that show either the wide face or the edges of the timber strands/veneers. Values in the tables reflect installation into the wide face.
7. Base design loads assumes nails have full penetration into supporting member. Loads do not apply to end grain post installations.
8. Simpson Strong-Tie® SCNR Ring Shank 64x3.75 mm nails shall be used with the BCSS models.
9. The Design Capacities shall be multiplied by 1.10 when 75 x 3.75 mm nails are used instead of the specified 64 x 3.75 mm nails.
10. Post and beam may consist of multiple members provided they are connected independently of the post cap fasteners.
11. Nails and Strong-Drive SD Connector screws may not be combined in a connection.