

## Technical data sheet

### CPT Concealed Post Base

**SIMPSON**

**Strong-Tie**

*The CPT post base provides a clean look while providing a 25mm stand off height above the ground, reducing the potential for decay at the post end.*

*The CPT can be fixed to a concrete base with M12 resin anchors (sold separately).*

## Features

### Materials

**Flitch plate, washers and standoff base are pre-galvanised steel.**

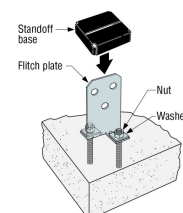
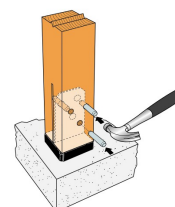
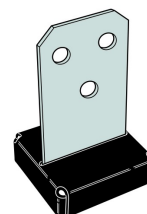
**The standoff base has an additional textured, flat black powder coat finish for aesthetic purposes.**

**The 12mm diameter dowels are mechanically galvanised.**

## Applications

### Concrete

**Fix timber posts to concrete.**



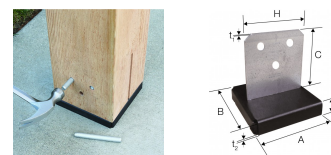
*Step 6: Drive the dowels into the post and through the flitch plate they should be roughly centred within the post.*

*Step 3: Cut a 5mm wide slot on the side adjacent the drilled holes. Check that the flitch plate slides freely.*

## CPT Concealed Post Base

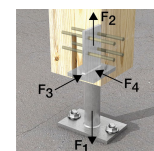
## Technical Data

### Product Dimensions



| References | Timber post size [mm] | Product Dimensions [mm] |     |     |    |     |                |                |           | Holes |       |
|------------|-----------------------|-------------------------|-----|-----|----|-----|----------------|----------------|-----------|-------|-------|
|            |                       | A                       | B   | C   | F  | H   | t <sub>1</sub> | t <sub>2</sub> | Washer    | Top   | Base  |
|            |                       |                         |     |     |    |     |                |                |           | Ø13.5 | Ø13.5 |
| CPT44Z     | 89x89 to 100x100      | 89                      | 89  | 145 | 25 | 79  | 3.5            | 2.7            | 36x29x3.5 | 3     | 2     |
| CPT66Z     | 133x133 to 150x150    | 133                     | 133 | 145 | 25 | 114 | 3.5            | 2.7            | 36x29x3.5 | 3     | 2     |
| CPT88Z     | 184x184 to 203x203    | 184                     | 184 | 145 | 25 | 114 | 3.5            | 2.7            | 36x29x3.5 | 3     | 2     |

### Characteristic Capacities



| References | Number of Fasteners |               |               |        | Characteristic Capacity - Timber C24 [kN] |                  |                  |                  |
|------------|---------------------|---------------|---------------|--------|---|------------------|------------------|------------------|
|            | Into Post           |               | Into Concrete |        | R <sub>1,k</sub>                          | R <sub>2,k</sub> | R <sub>3,k</sub> | R <sub>4,k</sub> |
|            | Qty                 | Type (Dowels) | Qty           | Anchor |   |                  |                  |                  |
| CPT44Z     | 3                   | Ø13x70        | 2             | Ø12    | 59.4                                      | 11.2             | 7.3              | 3.9              |
| CPT66Z     | 3                   | Ø13x120       | 2             | Ø12    | 91.2                                      | 16.3             | 9.1              | 5.6              |
| CPT88Z     | 3                   | Ø13x120       | 2             | Ø12    | 123.1                                     | 16.3             | 9.1              | 5.6              |

The published characteristic capacity is based on medium term load duration and service class 3 according to EC5 (EN 1995). For other load duration and service class, please refer to the ETA

For combined loads:

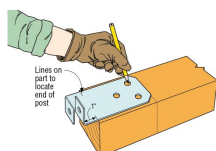
$$\sum \frac{F_{i,d}}{R_{i,d}} \leq 1$$

## CPT Concealed Post Base

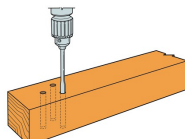
## Installation

### Installation Sequence

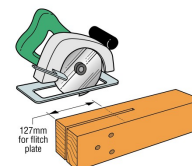
Follow the steps below:



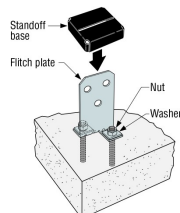
*Step 1: Use the flitch plate as a template to mark dowel locations.*



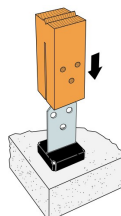
*Step 2: Drill 13mm holes perpendicular to the post at marked locations.*



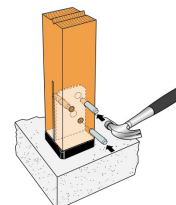
*Step 3: Cut a 5mm wide slot on the side adjacent the drilled holes. Check that the flitch plate slides freely.*



*Step 4: Cut a 5mm wide slot on the side adjacent the drilled holes. Check that the flitch plate slides freely.*



*Step 5: Lower the post onto the flitch plate with the drilled holes aligned with the three holes in the flitch plate. Be careful to avoid rotating the post during installation.*



*Step 6: Drive the dowels into the post and through the flitch plate they should be roughly centred within the post.*

