

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.

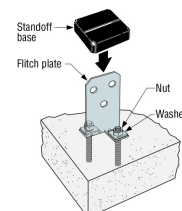
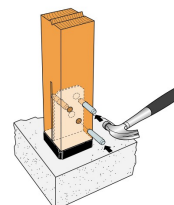
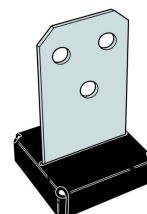
The standoff base has an additional textured, flat black powder coat finish for aesthetic purposes.

The 12mm diameter dowels are mechanically galvanised.

Applications

Concrete

Fix timber posts to concrete.



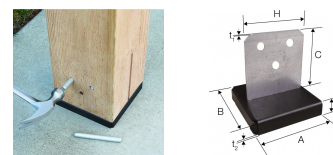
Step 6: Drive the dowels into the post and through the flitch plate they should be roughly centred within the post.

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

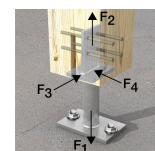
Technical Data

Product Dimensions



References	Timber post size [mm]	Product Dimensions [mm]								Holes	
		A	B	C	F	H	t ₁	t ₂	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 _{1,k}	R _{2,k}	R _{3,k}	R _{4,k}
	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

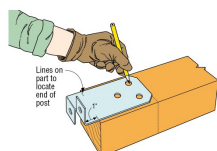
For combined loads:

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

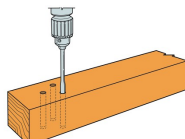
Installation

Installation Sequence

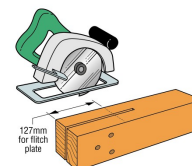
Follow the steps below:



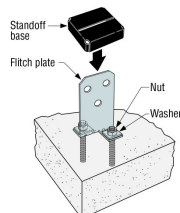
Step 1: Use the flitch plate as a template to mark dowel locations.



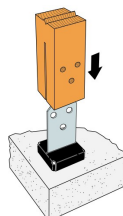
Step 2: Drill 13mm holes perpendicular to the post at marked locations.



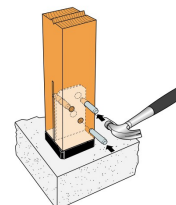
Step 3: Cut a 5mm wide slot on the side adjacent the drilled holes. Check that the flitch plate slides freely.



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.

