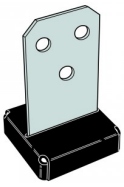
Technical data sheet

CPT - CONCEALED POST BASE

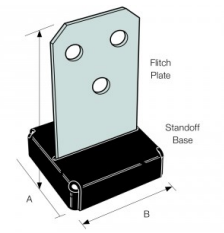


The CPT concealed post base provides a clean, concealed look while providing a 25mm standoff height above concrete. The 25mm standoff reduces the potential for decay at the post end. The CPT can be fixed to concrete base with either M12 chemical or mechanical anchors (sold separately).

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.



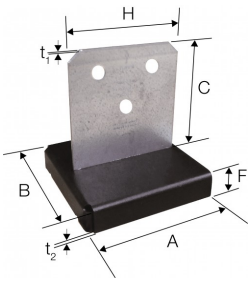
APPLICATIONS

Concrete

Fix timber posts to concrete.

TECHNICAL DATA

Product Dimensions



References	Timber post size [mm]	Product Dimensions [mm]								Holes	
		A	B	C	F	H	t_1	t_2	Washer	Top Ø13.5	Base 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

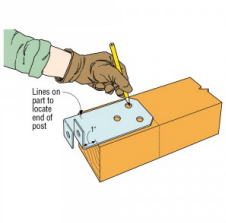
The published characteristic capacity is based on medium term load duration and service class 3 according to EC5 (EN 1995). For other load duration and service class, please refer to the ETA
For combinated loads:

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

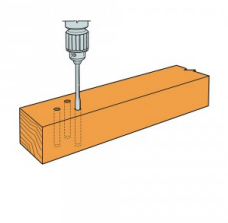
INSTALLATION

Installation Sequence

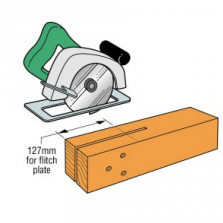
Follow the steps below:



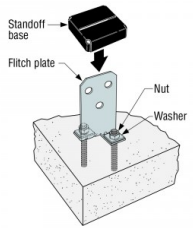
Step 1: Use the flitch plate as a template to mark dowel locations.



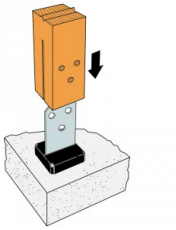
Step 2: Drill 13mm holes perpendicular to the post at marked locations.



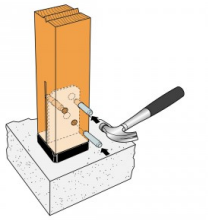
Step 3: Cut a 5mm wide slot on the side adjacent the drilled holes. Check that the flitch plate slides freely.



Step 4: Fix down the flitch plate to concrete foundation and lower the standoff over the flitch plate.



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. They should be roughly centred within the post.