Installation guide

Night Owl Keep Left Bollard

1 & 2 Piece Nightowl







Cleaning Products should be rinsed with clean water and then washed with a mild detergent solution using a sponge. Care should be taken not to apply undue pressure that may damage labels. Flush clean with water after washing.











PPE Always wear appropriate PPE equipment and follow safety guidelines.

There are two installation methods:

'Concrete in' Installation 'Surface Mount' Installation



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10 mm masonry drill bit 16 mm masonry drill bit Appropriate hammer drill Cordless drill + 6 mm Allen key bit Torque wrench + 6 mm Allen key bit



Tools

Equipment to excavate foundation hole
Fast setting structural concrete (Minimum specification C2O/25)
Hardcore / gravel
Cordless drill + 6 mm Allen key bit
Torque wrench + 6 mm Allen key bit

'Concrete in' Installation

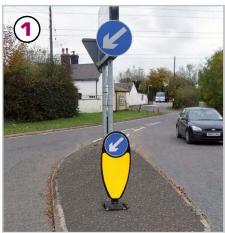
Tools and Components supplied

Allen key 6mm AF 4x M10 x 40 stainless steel button head screw 4x M10 x 50 x 3mm Stainless steel washers

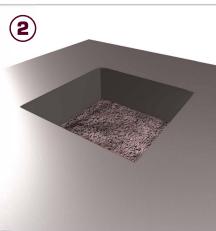
4x Nylon Spacer - Internal diameter 10.6mm x outside diameter 22mm x length 20mm

4x concrete in anchors

1x Spacer plate



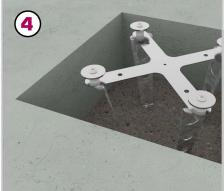
Survey the installation site to ascertain suitability for the product and location. Check for buried services and prepare site if necessary. illustrated.



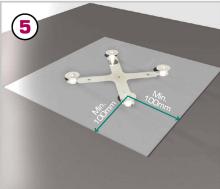
Dig a hole of size 550 x 550 x 260mm deep. Fill with 50mm compacted hardcore as



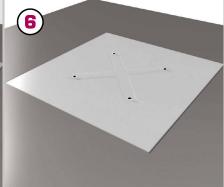
Assemble the spacer plate, 4 x anchors, 4 x Nylon spacers, 4 x 50mm washers and 4 x 40mm button head socket screws.



Insert the Concrete Ground Anchor keeping a minimum 100mm distance to any edge of the hole. The spacer plate should be flush with the ground level.



Once level and correctly positioned, pour concrete in carefully in order not to displace fixing. Once filled, recheck the placement and adjust accordingly.



When the concrete has set remove bolts, washer, spacers and spacer plate.



Place the 4 nylon compression spacers in the 4 moulded holes in the base of the bollard.



Position product centering the four holes. Remember to make sure the front of the bollard reach the threaded part of the Anchor. Make faces oncoming traffic. Place the large washers over the button head screws and place through the nylon inserts and into the Anchor.



The fixing screws should drop down until they sure all four bolts are engaged in the shield thread by 2 or three turns then proceed to tighten all four bolts to torque setting 27.

'Surface Mount' Installation

Tools and Components supplied

Allen key 6mm AF

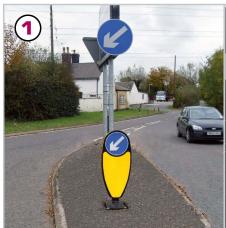
4x M10 x 100 stainless steel button head screw

4x M10 x 50 x 3mm Stainless steel washers

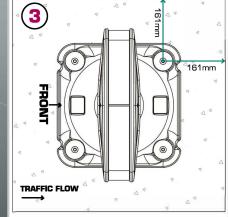
4x Nylon Spacer - Internal diameter 10.6mm x outside diameter

22mm x length 20mm

4 x shield anchor - Dia 16mm x 60mm, M10 bolt size



550 mm 550 mm



Survey the installation site to ascertain suitability for the product and location. Check for buried services and prepare site if necessary. be of size 550 x550 x 210mm deep.

The foundation should ideally consist of structural concrete spec (min c20/25) and

Put product in place. The minimum distance from the anchor to the edge of the concrete should be no less than 160mm. "Front" text on the base of the bollard should be facing oncoming traffic.



Place the 4 nylon compression spacers in the 4 moulded holes in the base of the bollard.



Using the product base (with nylon spacers fitted) as a jig, drill 10mm diameter holes to a depth of approximately 5-10mm, to mark hole centres.



Remove bollard and continue to drill out 4 holes a total of 80 - 90mm depth using a 16 mm masonry drill bit. Remove all loose debris from the holes.



Screw the 100mm button head screws into the Position product centering the four holes. anchor shields so the thread end is just past the Remember to make sure the front of the bollard base of the anchor. Ease into the holes until the faces oncoming traffic. Place the large washers top of the anchor is flush with ground level. Tap lightly with a hammer if necessary.



over the button head screws and place through the nylon inserts and into the Anchor.



The fixing screws should drop down until they reach the threaded part of the shield. Make sure all four bolts are engaged in the shield thread by 2 or three turns then proceed to tighten all four bolts to torque setting 27.