

Installation guide

Night Owl Keep Left Bollard



LEAFIELD Highways



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.



Quality Standards All LEAFIELD Environmental products are certificated to BS EN ISO 9001:2000 and BS EN ISO 14001:2004.



PPE Always wear appropriate PPE equipment and follow safety guidelines.

There are two installation methods:

'Concrete in' Installation



Tools
 Equipment to excavate foundation hole
 Fast setting structural concrete (Minimum specification C20/25)
 Hardcore / gravel
 Cordless drill + 6 mm Allen key bit
 Torque wrench + 6 mm Allen key bit

'Surface Mount' Installation

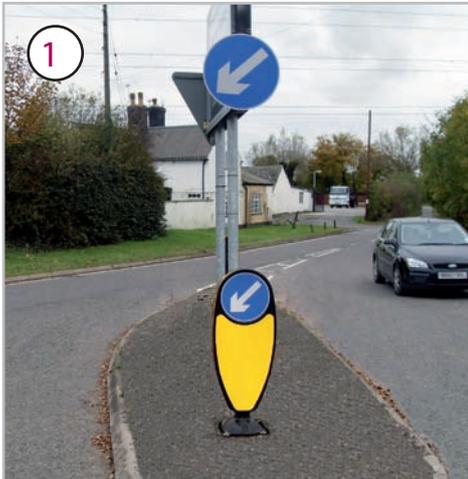


10 mm masonry drill bit
 16 mm masonry drill bit
 Appropriate hammer drill
 Cordless drill + 6 mm Allen key bit
 Torque wrench + 6 mm Allen key bit

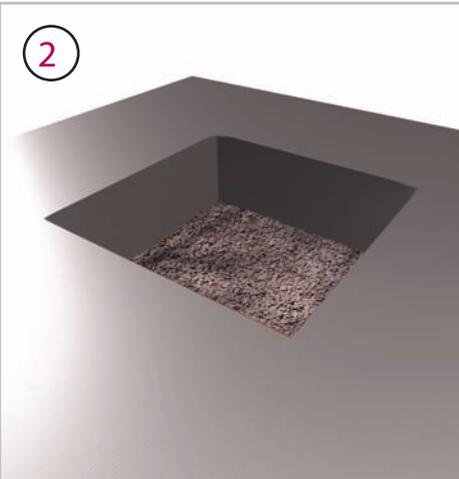
'Concrete in' Installation

Tools and Components supplied

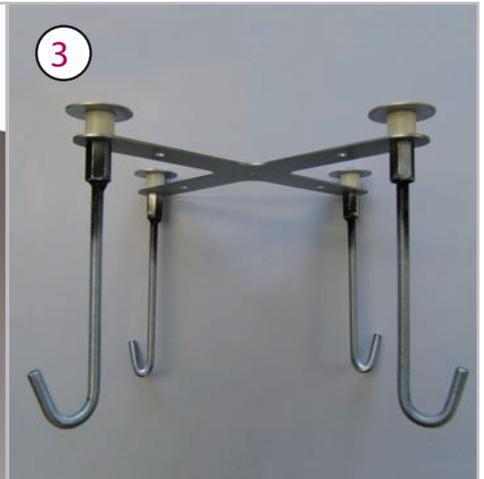
Allen key 6mm AF
 4x M10 x 40 stainless steel button head screw
 4x M10 x 50 x 3mm Stainless steel washers
 4x Nylon Spacer - Internal diameter 10.6mm x
 outside diameter 22mm x length 20mm
 4x concrete in anchors
 1x Spacer plate



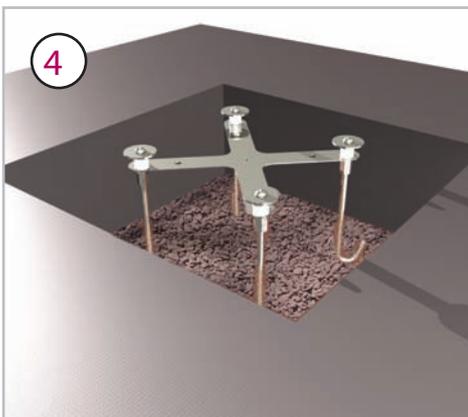
1 Survey the installation site to ascertain suitability for the product and location. Check for buried services and prepare site if necessary. illustrated.



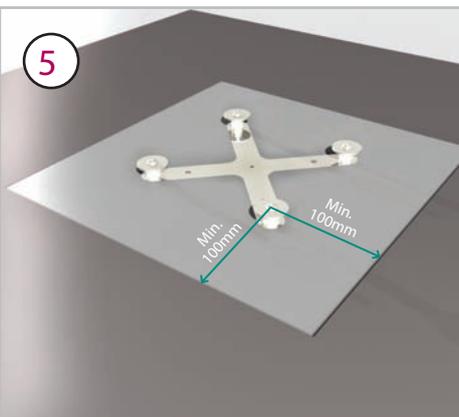
2 Dig a hole of size 550 x 550 x 260mm deep. Fill with 50mm compacted hardcore as illustrated.



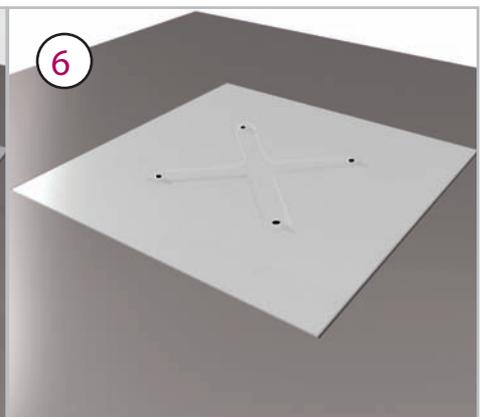
3 Assemble the spacer plate, 4 x anchors, 4 x Nylon spacers, 4 x 50mm washers and 4 x 40mm button head socket screws.



4 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.



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



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



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



8 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.

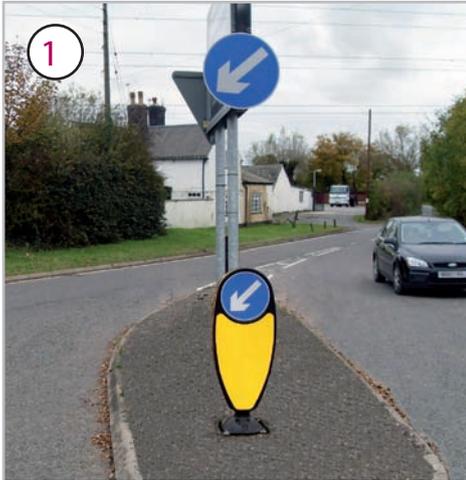


9 The fixing screws should drop down until they sure all four bolts are engaged in the shield over the button head screws and place through thread by 2 or three turns then proceed to tighten all four bolts to torque setting 27.

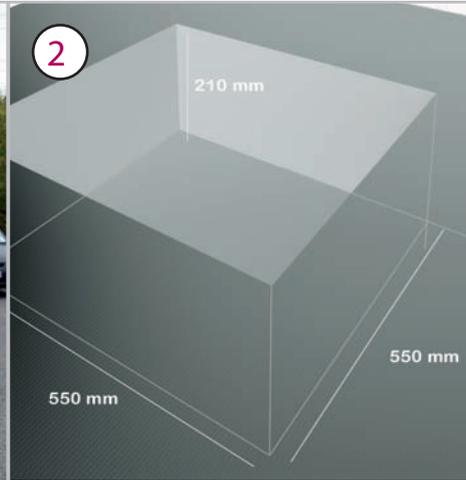
'Surface Mount' Installation

Tools and Components supplied

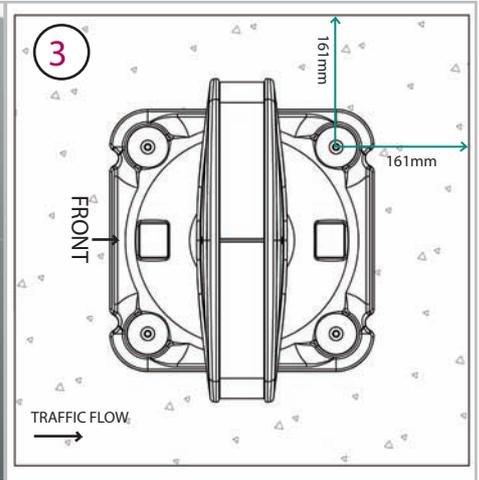
- Allen key 6mm AF
- 4x M10 x 100 stainless steel button head screw
- 4x M10 x 50 x 3mm Stainless steel washers
- 4x Nylon Spacer - Internal diameter 10.6mm x outside diameter 22mm x length 20mm
- 4 x shield anchor - Dia 16mm x 60mm, M10 bolt size



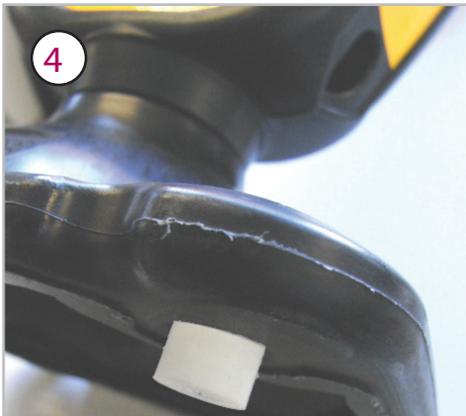
1 Survey the installation site to ascertain suitability for the product and location. Check for buried services and prepare site if necessary.



2 The foundation should ideally consist of structural concrete spec (min c20/25) and be of size 550 x 550 x 210mm deep.



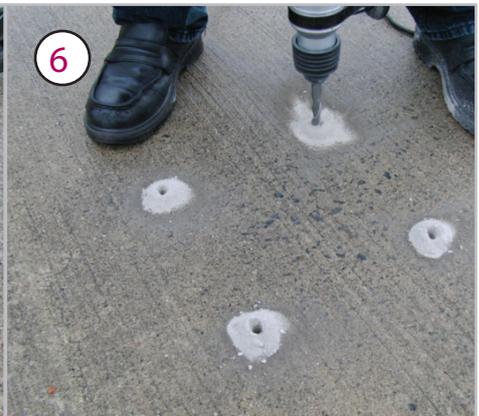
3 Put product in place. The minimum distance from the anchor to the edge of the concrete should be no less than 160mm. "Front" text on the base of the bollard should be facing oncoming traffic.



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



5 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.



6 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.



7 Screw the 100mm button head screws into the Position product centering the four holes. Remember to make sure the front of the bollard reach the threaded part of the shield. Make sure all four bolts are engaged in the shield thread by top of the anchor is flush with ground level. Tap over the button head screws and place through 2 or three turns then proceed to tighten all four bolts to torque setting 27.



8 The fixing screws should drop down until they anchor shields so the thread end is just past the Remember to make sure the front of the bollard reach the threaded part of the shield. Make sure all four bolts are engaged in the shield thread by top of the anchor is flush with ground level. Tap over the button head screws and place through 2 or three turns then proceed to tighten all four bolts to torque setting 27.

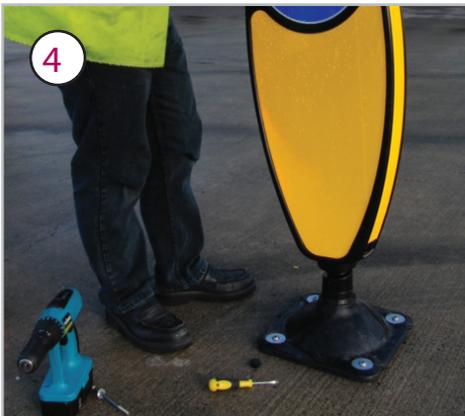
Replacing the Bollard Top/Sign Carrier

Tools and Components supplied

Allen key 6mm AF
1 x Socket head cap screw, M8 x 120mm - Stainless steel
1 x M8, Form C washer, Outside diameter 21mm, thickness 1.6mm - Stainless steel
2 x Tube insert cap - 25mm outside diameter x 11.5mm high, head height 3mm, to suit tube gauge 1.0 - 2.5mm - colour black



Using a small screwdriver remove the plastic cap on the right hand side of the bollard (right hand side when facing the front of the bollard).
Using the 6mm Allen key remove the M8 x 120mm long Socket head cap screw and washer.
Unscrew the top and inspect the base unit for damage. Please see detail below*.



Place the new bollard top over the screw thread and rotate until screwed down to its full extent. (Lubricating the screw threads with a silicone polish or a little grease may make this easier).
Place the M8 washer over the replacement M8 x 120mm long Socket head cap screw. Ensure the holes correctly align and push the socket head cap screw into the assembly.
Using the Allen key, tighten the M8 x 120mm long Socket head cap screw to a torque of min 4 Nm max 4.5 Nm. Push in the replacement plastic screw cover cap.

*Inspect the flexible base unit for damage.

If the base unit has any signs of over stretching, rips, cracks, slices and holes it will need replacing. Light scuffs scratches and creasing won't affect the performance of the base unit. If in doubt replace the base unit.