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**INSTALLATION INSTRUCTION - SOLBVHALO-FX1 High security baseplated, footing required.**


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Included in the kit;

- 1 x Custom "Rag Bolt" cage and levelling nuts
- 1 x levelling plate
- 3 x M8 stainless steel tamperproof "Shearnuts"
- 3 x stainless steel tamper proof solar head fixings inc. tool

Please note: This footing detail is based upon firm substrate conditions, if your substrate differs please contact us for specific footing detail.

1. Excavate a 350mm mm Dia x 400mm deep footing by hand or mechanical means.
2. Raise and brace the rag bolt cage off the bottom off the footing (using reo bar stools or similar) so as 50mm of the 10mm threaded rods will remain exposed above the cement. Leave the nuts on the threaded rod.
3. Ensure the rag bolt cage is as level as possible
4. Cast in, using rapid set cement or similar, the prepared rag bolt cage ensuring 50mm of the threaded rods remains exposed and the cage remains as level as possible
5. Once the cement has cured place the levelling plate (the levelling plate is a single baseplate that matches the baseplate on the bollard stem) over the exposed threaded rod to sit on the nuts.
6. Using a spirit level ensure the levelling plate is level by raising or lowering the nuts as required leaving 10mm of the threaded rod exposed
7. Remove the levelling plate
8. Place the bollard stem baseplate onto the nuts and, using a spirit level, ensure the stem is plumb.
9. By hand, screw the stainless steel tamper proof nuts onto the exposed studs until seated, one thread of the nut should be visible.
10. Using a 15mm open ended spanner hold but do not move the levelling nut
11. Using a 17mm ring spanner tighten the shearnuts until the section of the nut you are tightening "shears away" leaving a domed nut firmly attached to the threaded rod.
12. Install the remaining sheer nuts in the same manner ensuring the stem remains plumb
13. Using a quality non-shrink grout, grout between the concrete footing and the underside of the baseplate.
14. Using the tool supplied align, insert and tighten the 3 x tamper proof screws to secure the solar light head to the stem.

Feel free to contact the office on the number below for any assistance with your install



"Rag Bolt" Cage



M8 Shearnuts



Tamper proof solar head fixings