

INSTALL DWG #2

TOWN AND PARK FURNITURE



B6/R 'CITY' REMOVABLE BOLLARD: B6/R Removable

Install removable bollard in accordance with the notes below. For important details on expansion and chemical anchors see **anchoring recommendations**.

- 1 Form sub-surface concrete footing* to surround in-ground frame (a) or form up to ensure frame finishes flush with pavement (b).

Establish an opening in the concrete footing to accept the in-ground 70mm diam. sleeve unit. (see step 3).

*Suggested minimum footing for **B6/R Removable**: 500 (L) x 500 (W) x 400 (D) **subject to on-site ground conditions**.

- 2 Fix in-ground frame to footing using 4 **stainless steel** max. 6mm stud masonry screws with 50-75mm penetration into footing.

- 3 Install and bed down sleeve unit using an approved epoxy compound.

NOTE: Correct alignment of installed bollard relies upon accurate vertical orientation of the in-ground sleeve unit.

IN-GROUND PARTS...



FRAME (SHUT)



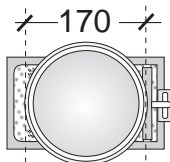
FRAME (OPEN)



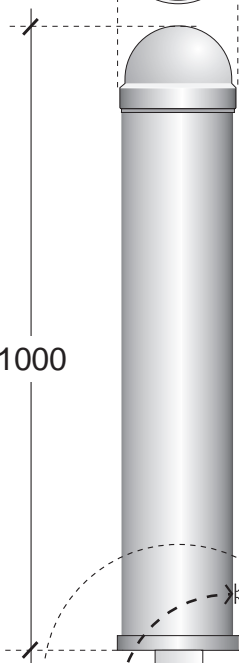
SLEEVE



B6/R



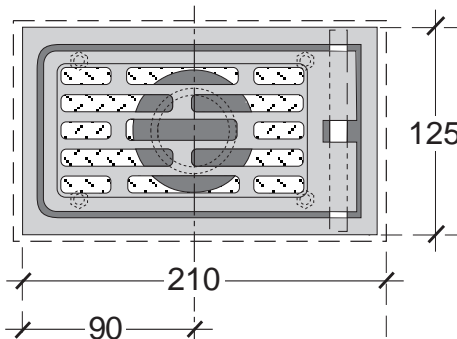
PLAN VIEW



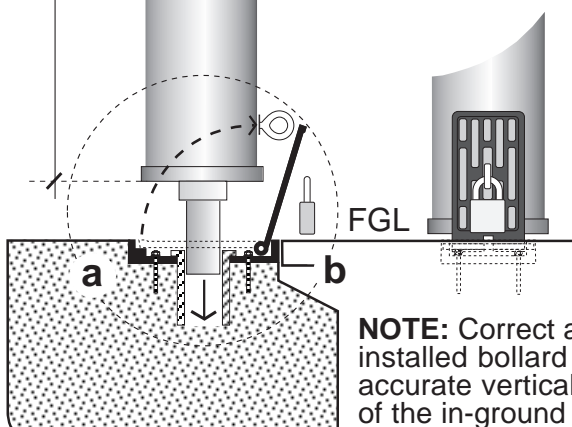
ELEVATION

B6/R Removable

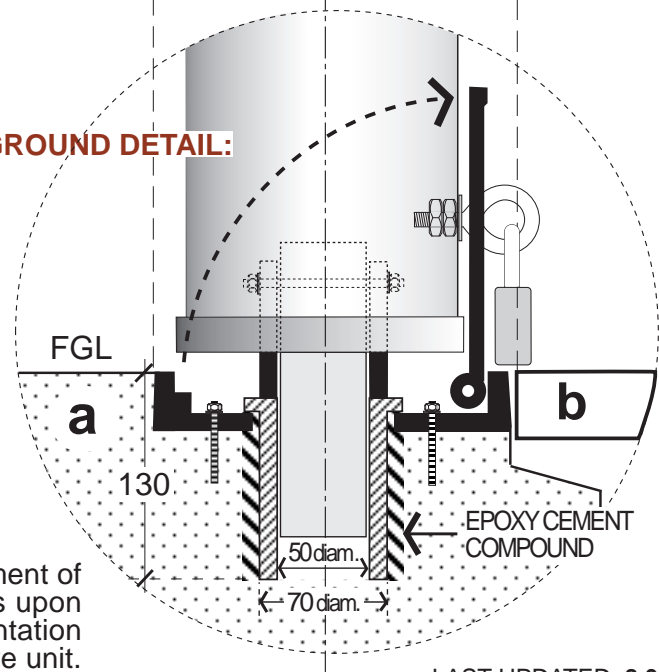
FRAME DETAIL:



IN-GROUND DETAIL:



NOTE: Correct alignment of installed bollard relies upon accurate vertical orientation of the in-ground sleeve unit.



LAST UPDATED: 8.05



ANCHORING RECOMMENDATIONS:

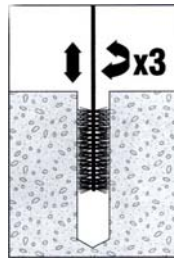
Town and Park Furniture recommends the use of **stainless steel** masonry anchors ONLY, with chemical or expansion anchors being the preferred methods.

The following anchor installation summary gives recommendations re hole preparation, anchor installation and securing of the fixture: ***Do not exceed the max. stud size recommended for each product type as socket access may be limited within integral boltholes recesses. Refer to individual product install drawings for max. stud size recommendations:**

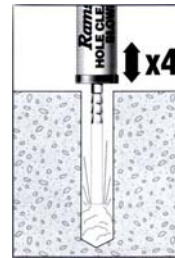
1. TYPICAL HOLE PREPARATION:



Drill hole using correctly sized rotary hammer carbide bit to the specified depth in solid substrate.



a) Clean hole with correct size hole cleaning brush with stiff nylon or wire bristles. Using a push/pull and twisting motion, ensure the sides of the hole are scrubbed at least 3 times for full depth of hole.



b) Remove debris, dust etc. from the hole using a hole cleaning blower with at least 4 swift pumps. Alternatively, a strong blast of compressed air may be used.

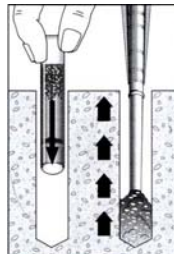
2. ANCHOR INSTALLATION:

EXPANSION ANCHOR



Insert anchor into hole flush against fixture.

CHEMICAL ANCHOR



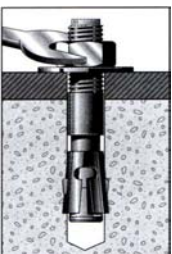
a) Insert correct sized chemical capsule or inject chemical mortar without creating air pockets in the hole.



b) Drive stud to bottom of hole. Do not move the stud while chemical mortar is curing. See manufacturers data for setting times.

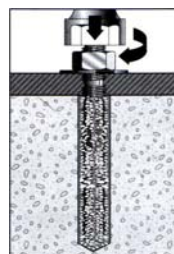
3. SECURING THE FIXTURE:

EXPANSION ANCHOR



Tighten with a spanner. For optimum anchor performance use a torque wrench.

CHEMICAL ANCHOR



Attach fixture and tighten nut in accordance with recommended tightening torque.

The above anchor installation summary has been kindly provided by: RAMSET Fasteners (Australia) Pty Ltd. For further information including full technical data sheets visit..... www.ramset.com.au