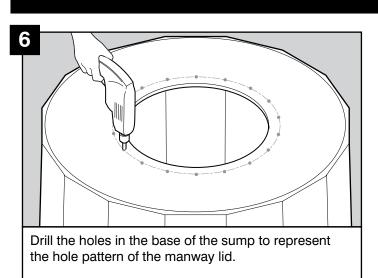
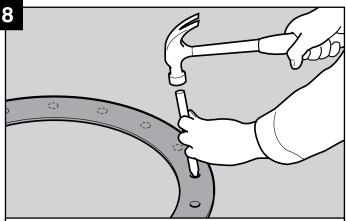


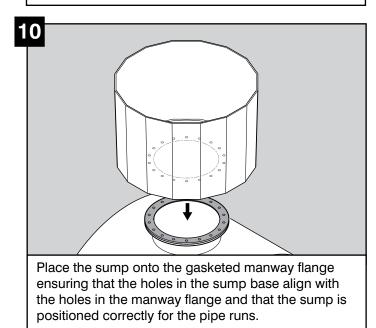
(Sump Installation)

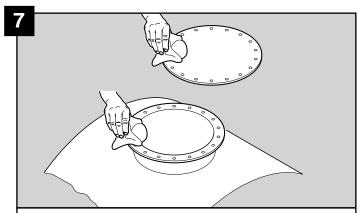






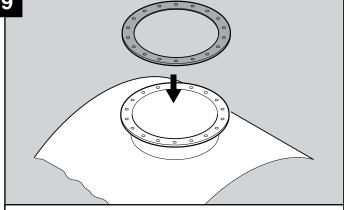
If necessary trim the outside and inside diameter of the supplied gasket with a Stanley knife to represent the outside diameter of the manway lid and inside diameter of the tank neck. Using the manway lid as a template mark the position of the hole pattern onto the gasket. Using the supplied 18 mm diameter hole punch and a hammer punch out the required number of holes.



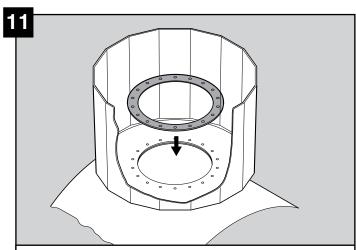


Thoroughly clean the mating faces of the manway lid and manway flange and the underside of the manway flange. Check for any damage and repair as necessary.

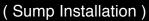




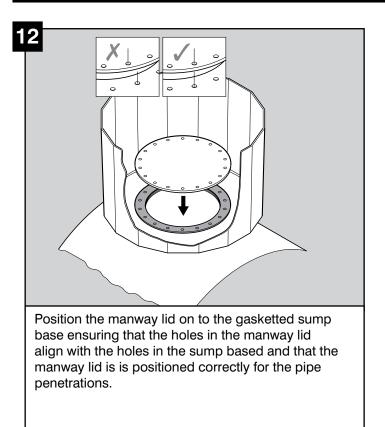
Place the bottom gasket onto the manway flange.

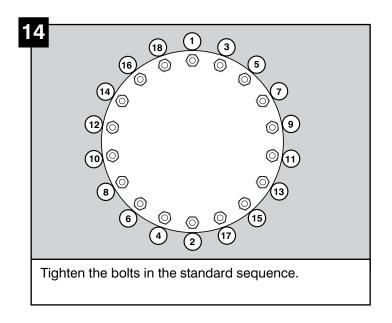


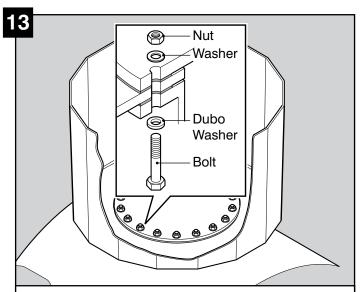
Place the top gasket onto the sump base.



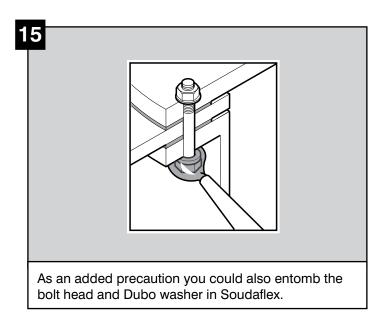








Fit all the bolts thru the holes in the following arrangement: Bolt head to be on the underside of the manway flange with a Dubo sealing washer "sandwiched" between the head of the bolt and the underside of the manway flange (no other washer is to be used at the bolt head or the Dubo washer won't work). Fit a steel washer and nut on the manway lid side.



(Pipework and Entry Seal Kits)



6 Before installing pipework, fix a string line at ground level across the sump to check if material needs to be cut off the sump. If so, mark the sump with a line along the cut mark.

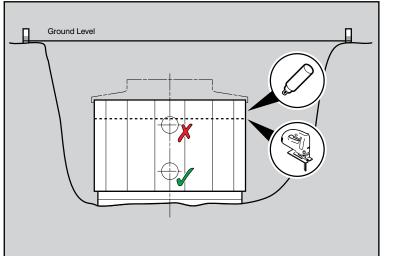
Check to ensure you have the necessary minimum clearance required from the top of the sump to the centreline of the pipework/pipe entry kits.

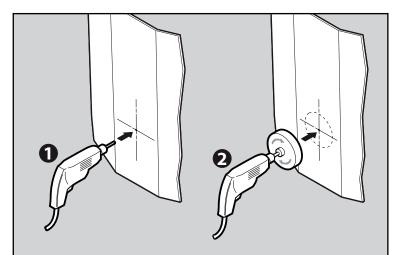
Standard Entry Kit = 145mm Large Entry Kit = 170mm

For shallow burials, it may be necessary to cut less material off the sump, and cut the remainder off the corbel and skirt to allow pipe entry boots to be fitted. PLAN THIS CAREFULLY.

Refer to measurement chart.

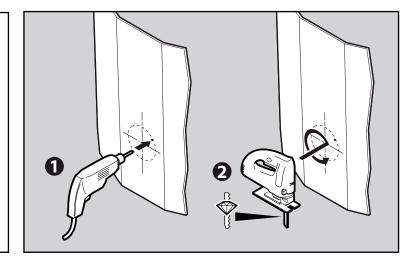
Mark a centre point in the centre of a sump panel. Drill a pilot hole to ensure the hole saw can be positioned and used safely.





8

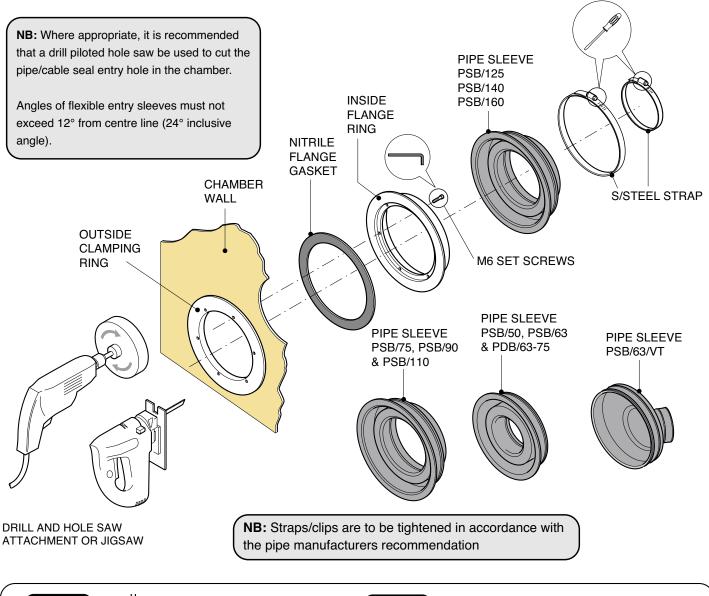
For larger holes (190mm) we recommend that the hole is marked and jigsaw is used to cut the hole. Firstly, drill a hole through the wall, so the jigsaw can be inserted and used easily and safely. (Fibreglass will blunt normal blades very quickly, we recommend diamond tipped blades or blades to cut ceramics).

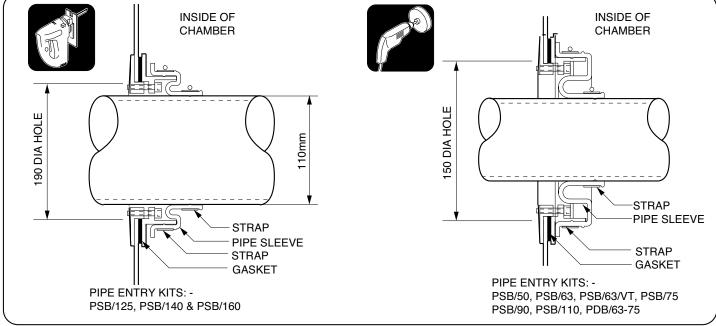


NOTE : When backfilling ensure the pipework is not disturbed. **WARNING**: Do not backfill until the sump has been vacuum tested.

INSTALLATION INSTRUCTIONS (Pipe Seal Kits - Fitting Instructions)







The exit position of the pipework through the chamber wall must be as close as possible to 90°. The pipe kit should be fitted so that the pipework is centrally positioned to the seal. When backfilling ensure that the pipework is not disturbed from this central position.

(Conduit entry seal kit Installation Instructions)



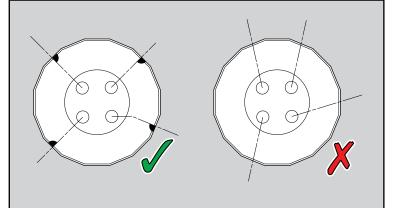
19 PEC KITS

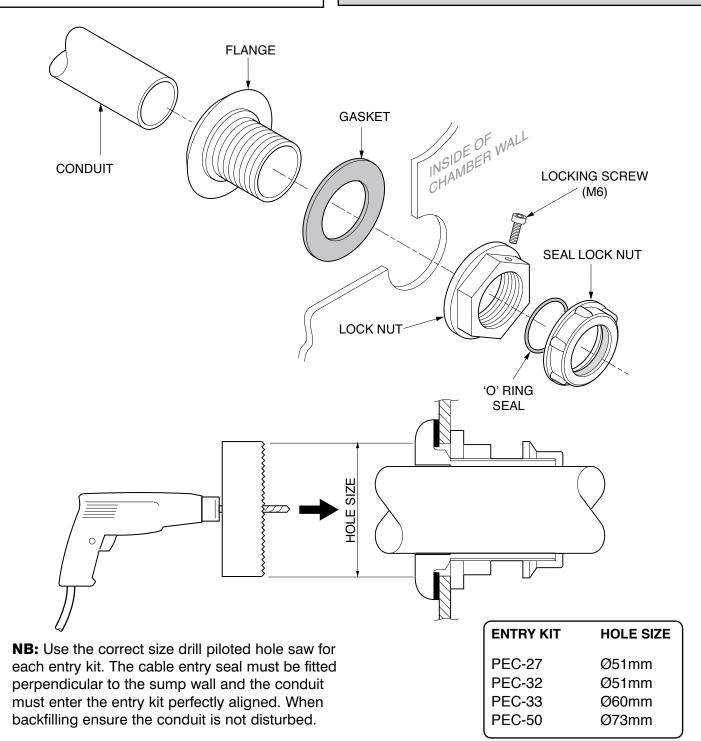
Refer to pipe entry boot instructions on positioning of the hole.

Conduit must be installed at 90° angle to the side wall.

Use Fibrelite entry seal kit model PEC/32 to fit UPP + NUPI 32mm conduit.

PEC/27, PEC/33, PEC/50 to fit metal conduit sizes $\frac{3}{4}$ ", 1" and $\frac{1}{2}$ " respectively.



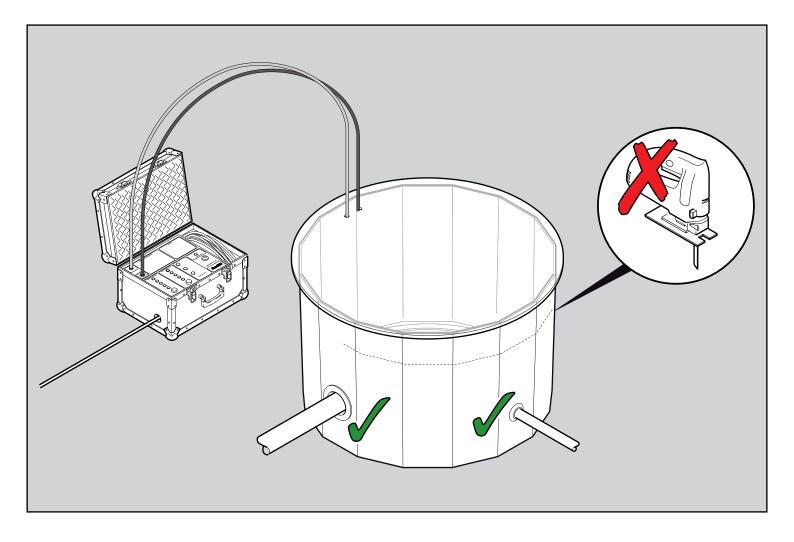


INSTALLATION INSTRUCTIONS (Sump Vacuum Test)



20 After penetrations have been fitted, ensure all connections on the manway lid are sealed. Perform vacuum test. Refer to Vacuum test instructions.

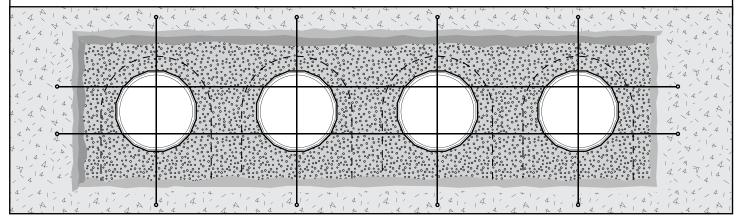
Do not backfill around sump or cut material off the sump until the test has passed successfully.



(Achieving the correct height)



Fix string lines 10mm above grade level across the sump - across length and width of the tank farm to highlight any falls.

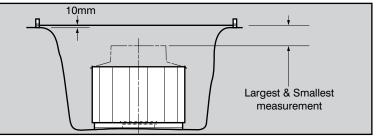


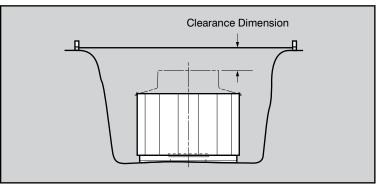
Place the corbel onto the sump (only 'dry fit' the corbel do not bond at this stage). Check the measurement from the top of the corbel to the string line, which is set 10mm above the general grade level. Check all sides of the sump and select the largest and smallest measurement to take account of falls across the forecourt.

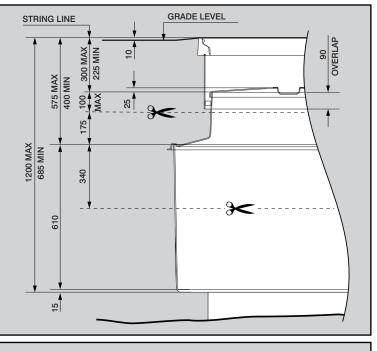
23 REMOTE FILL

Refer to this measurement chart;

Measurement (clearance dimension)	Action
Max. 300mm Min. 225mm	No trimming required, corbel can be bonded onto the sump. Adjust frame height using hangers.
less than 225mm	Option 1: If by trimming material (max of 100mm) from the corbel turret increases the 'clearance dimension' to 225mm then material only needs to be trimmed from the corbel turret and skirt. Trim the skirt so that the overlap between the corbel turret and skirt is between 90 and 120mm.
	Option 2: If by trimming 100mm from the corbel turret does not increase the 'clearance dimension' to 225mm then the remaining material must be removed from the sump. A maximum of 340mm can be removed from the sump. Trim the corbel and skirt as described above in option 1.
more than 300mm	The burial depth of the tank is greater than the maximum burial depth of the standard S8SB-390/ SEAL sealed system. Bond a 300mm extension onto the sump. Then proceed as above.



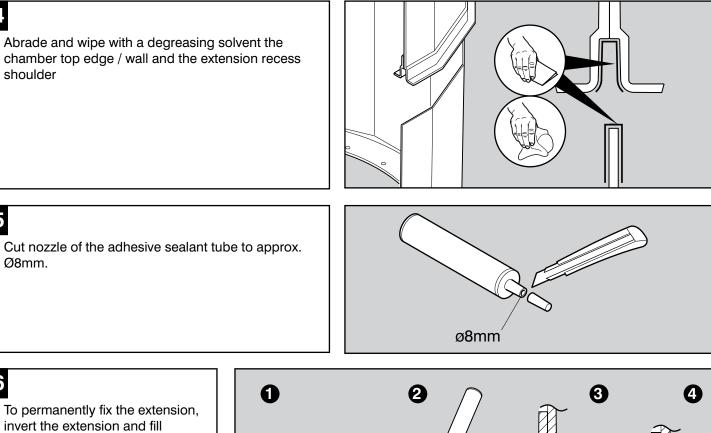




See page 10 for extension bonding instructions

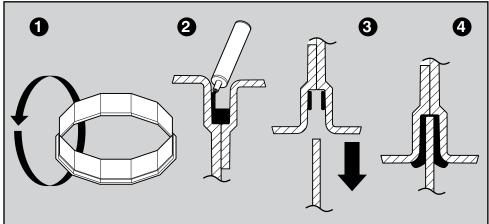
(Bonding the extension / chamber)





To permanently fix the extension, invert the extension and fill up approximately half of the extension recess with adhesive sealant.

Position the extensions(s) onto the chamber, ensure the extension is horizontal and press down uniformly.



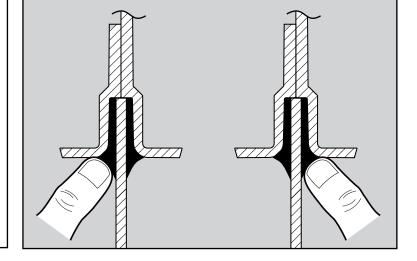
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26

Apply a fillet of adhesive sealant (same nozzle size) to both the internal and external horizontal joint and smooth off.



(Achieving the correct height)

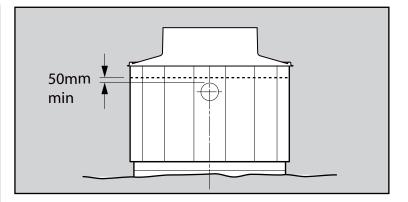


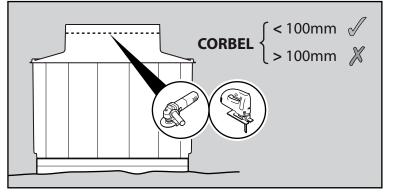
28

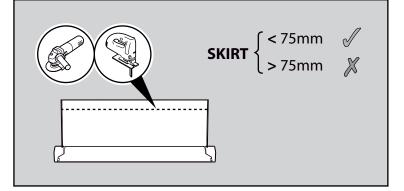
Before trimming the sump check pipe entry positions allow 50mm from top edge to be able to fit the corbel in position.

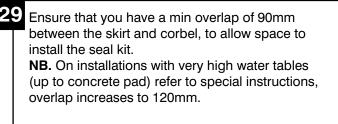
If necessary cut a smaller amount off the sump height, then cut the remaining material from the corbel and skirt.

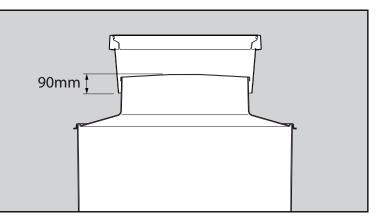
Important Note: Trim the corbel and skirt so that the clearance from the top of the frame to the top of the corbel falls in the range 300 to 225mm and that the overlap between the skirt and corbel is a minimum of 90 mm.









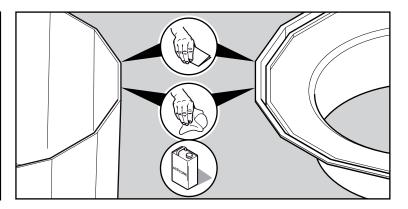


WARNING Do not trim sump until sump has been vacuum tested with pipework installed and completed.



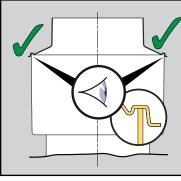


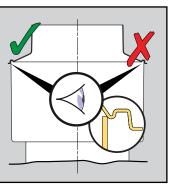
Abrade and wipe with a degreasing solvent the chamber or extension top edge/wall and the corbel groove.



31 Dry fit the corbel on the sump to ensure it fits - push corbel groove onto sump wall. If it does not fit, pipework may have distorted the

sump wall shape.

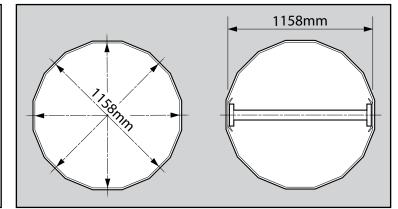




32 Measure distance between opposite walls, this should be 1158mm. If less than this you will need to brace out the sump.

Using wooden batons (1158mm \pm 5mm long) with timber spreader plates (150 x 150) to spread the load, brace out the sump to the correct size.

Repeat this process on all walls to get the correct shape.



Apply 2 tubes of soudaflex 40fc sealant in the groove of the corbel. Sealant should fill 1/2 the groove.
Apply 2 tubes of soudaflex 40fc sealant in the groove of the corbel. Sealant should fill 1/2 the groove.

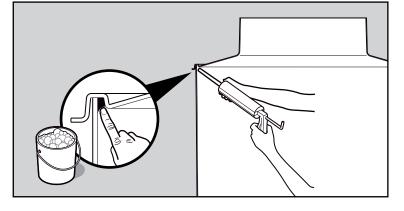
INSTALLATION INSTRUCTIONS (Bonding the corbel)



35

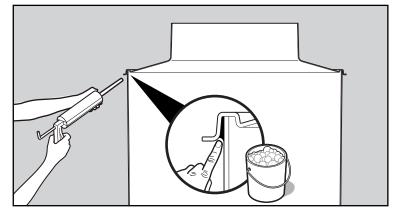
Seal around the inside edge of the corbel joint from inside the sump. Smooth off the sealant with soapy water.

Use 1.5 tubes of soudaflex 40FC sealant.



36 Seal around the outside joint and smooth off sealant with soapy water.

Use 1.5 tubes of 40FC sealant.



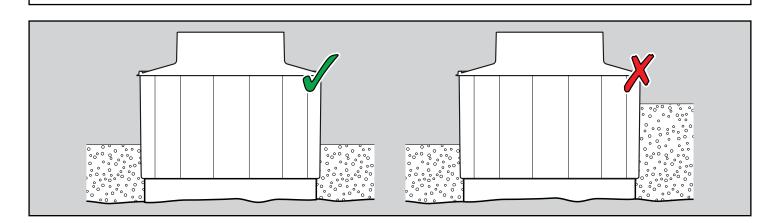
(Performing Corbel Vacuum Test)

Wait a min of 12 hours before vac testing, preferably overnight to allow sealant to set before vacuum testing.Do not disturb the sump during this time.	12 hours in in it is a second
38 Ensure all pipework and electrical entries have been completed before vacuum testing, this is a final test for all penetrations in the sump.	
Warning: Test the corbel at a 0.6m depth setting only or irreparable damage may occur.	
Refer to vacuum testing instructions for correct method.	

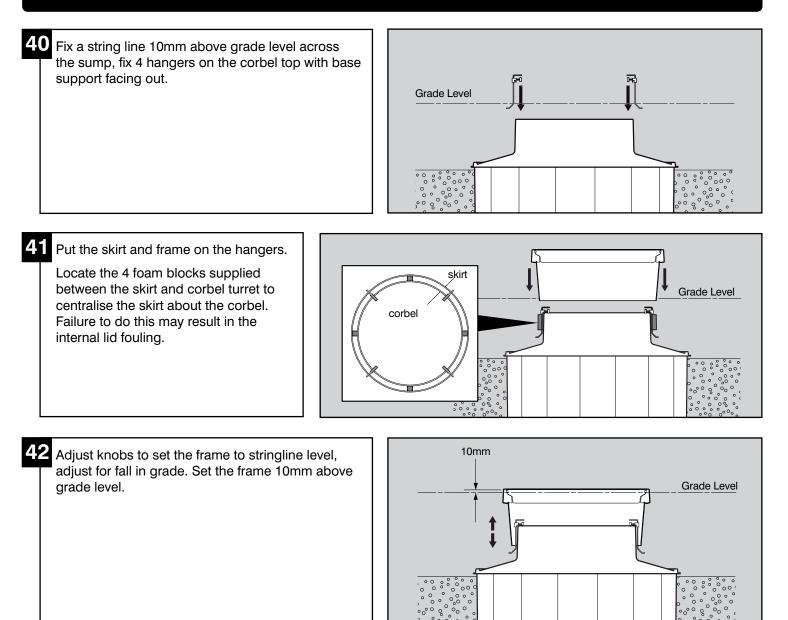


39

Once the corbel test has been performed with a PASS result, the area around the sump can be carefully backfilled with peagravel or sand. Back-fill equally around the sump in layers to prevent damage or deformation.



(Adjusting the Skirt & Frame to Grade Level)

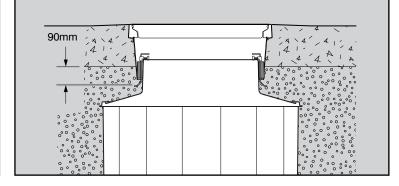






43 Ensure the void between corbel and skirt is kept free from concrete and a depth of 90mm overlap minimum is maintained, (120mm on high water table installations).

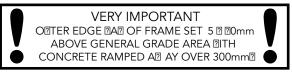
Ensure foam spacers are in position to locate the skirt centrally around the corbel.

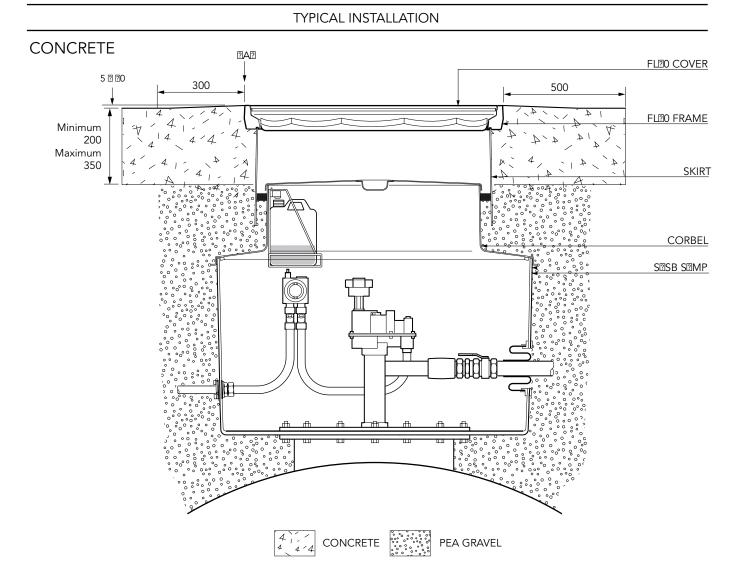


44

Complete backfilling to appropriate level. Frame must be supported by a minimum depth of 200mm of concrete

Concrete ties must be inserted as close to the frame as possible. Minimum block of 500mm square around the frame. Joint must be tied as per diagram. Continuous pour preferred if possible.

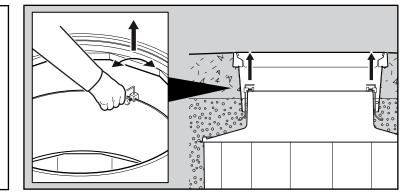




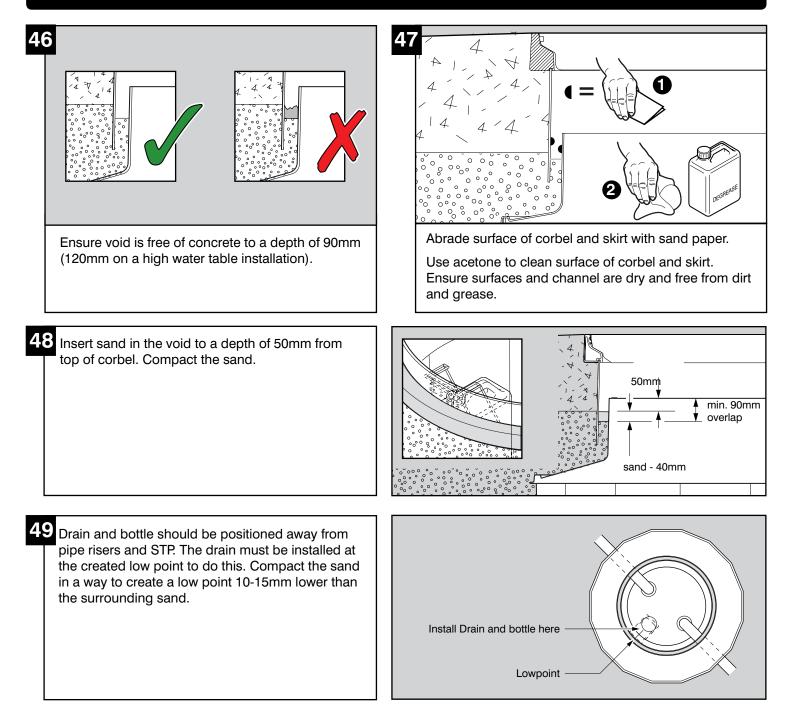


45 After minimum concrete cure time, hangers can be removed. Loosen the 'T' knob, push down on the rod, turn the rod through 90° and pull rod up to remove.

Complete other third party equipment installation inside the sump.



(Installation of corbel / skirt sealant)



(Installation of corbel / skirt sealant)

50 Mixing and Application

Application Temperature +5 to +45°C

(Do not apply at temperatures below +4 degrees °C)

Pot Life			
Cure Times @	25°C		

45 minutes @ 25°C Tack Free 2 1/2hrs Full Cure

2

days

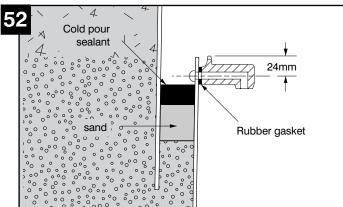
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Using a suitable container stir the contents of Pack B and add the entire contents to Pack A to give a combined content of 4.5Ltrs. Ensure white sediment from can B is put into can A before mixing. Stir for a full 5 minutes using a slow speed electric drill (400 -500 RPM) with a mixer paddle until a completely homogeneous mix is obtained. Take care to avoid including excess air. Mixing is made easier if the Pack B is added and mixed in two stages.

WARNING If white sediment is not added to mixture, or contents are not mixed thoroughly using an electric mixer - the sealant will not set and will need replacing

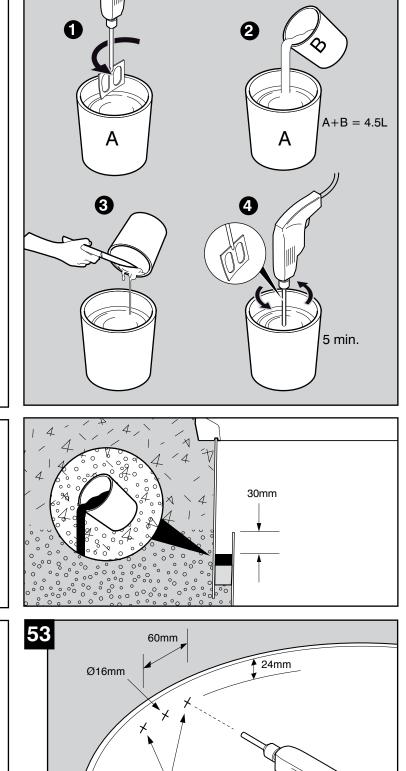
51

1 set of cans A+B will seal 2 sumps. Decant mixture from can A into can B to have more control when pouring the mixture into the void, onto the sand base. Avoid spilling the contents to ensure a clean finish on the side walls of corbel and skirt. The sealant shall be poured to level 30mm below the top edge of the Corbel (the amount of sealant required is dependant on the height of the system but should be between 1.5 and 1.7 Litres).





When the sealant is tack free the bottle hanger may be fitted. Ensure that when the bottle hanger is fitted the water will drain down the spout.



BRELI

Mark out the position of the two holes to be drilled 24mm down from the top edge of the Corbel and 60mm cross centre. Drill the two Ø7mm holes into the Corbel walls.

Ø7mm

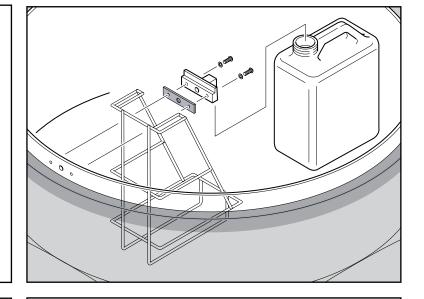
Also mark out the position of the drain hole to align with the hole in the drain spout and drill 1 No. Ø16mm through the corbel wall.

(Concreting and Final Testing)



Ensure the rubber gasket is fitted to the mating surface of the bottle hanger. Secure the Bottle Hanger to the Corbel wall with 2 No. M6 x 15 Dome Head Screws and Washers.

Locate the Condensation Bottle into the Bottle carrier and suspend the Bottle Carrier from the Bottle Hanger.



55 Do not install the internal lid until the sealant has set. Wait overnight.



56 Optional vacuum test on corbel.

Once completed a final test can be performed. Ensure the corbel is supported from below by wooden batons (due to extra weight of concrete and backfill).

Warning: Test the corbel at a 0.6m depth setting only or irreparable damage may occur.

