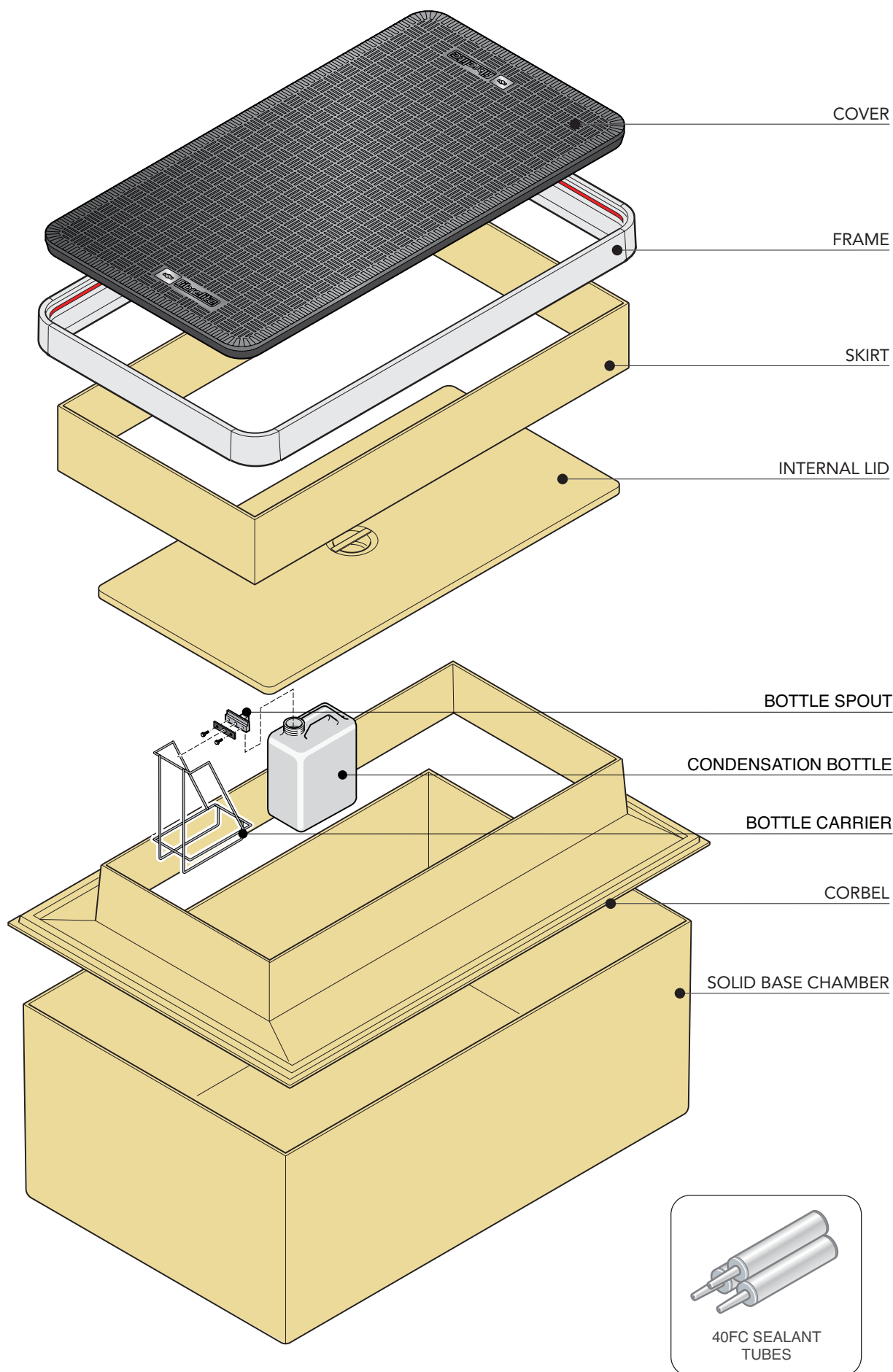


# INSTALLATION INSTRUCTIONS

## S9-3140 Tank Sump System

**FIBRELITE**   
PART OF OPW a **DOVER** company

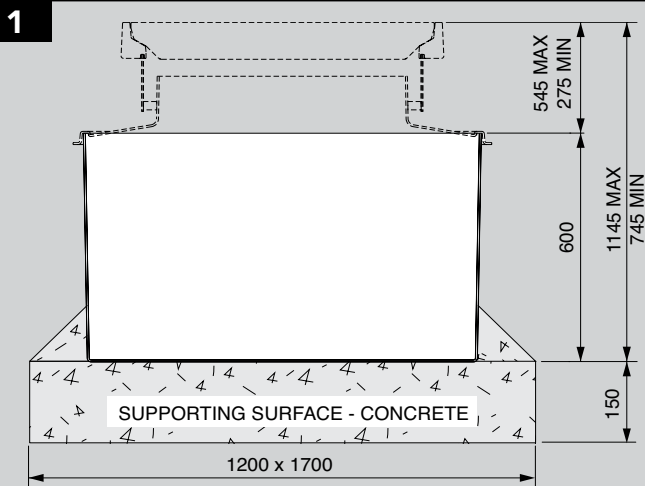


# INSTALLATION INSTRUCTIONS

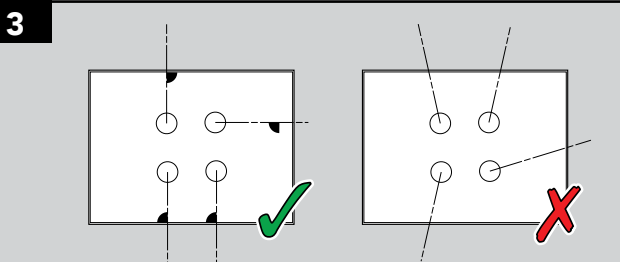
## ( Sump Installation )

**FIBRELITE**

PART OF OPW a **DOVER** company



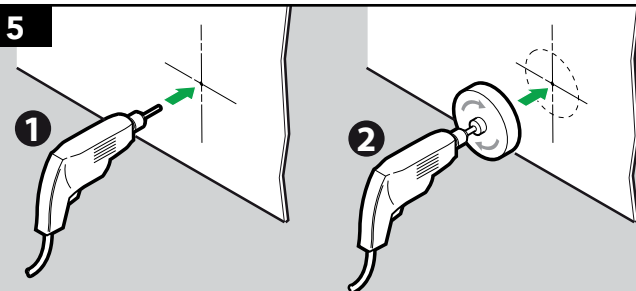
Position the sump onto an adequate supporting surface to the correct height.



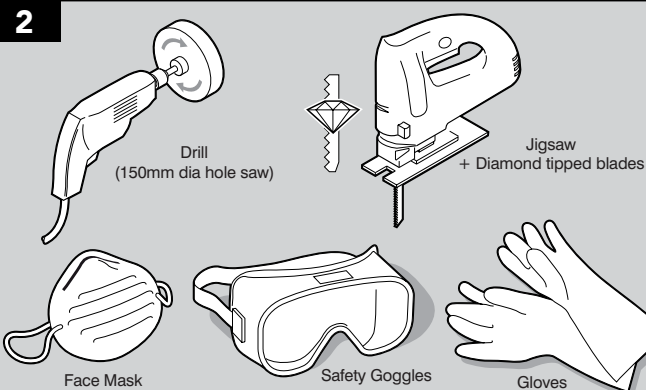
Position pipework at 90° angles to the sump wall.

Ensure pipe entry boot is positioned away from the joints.

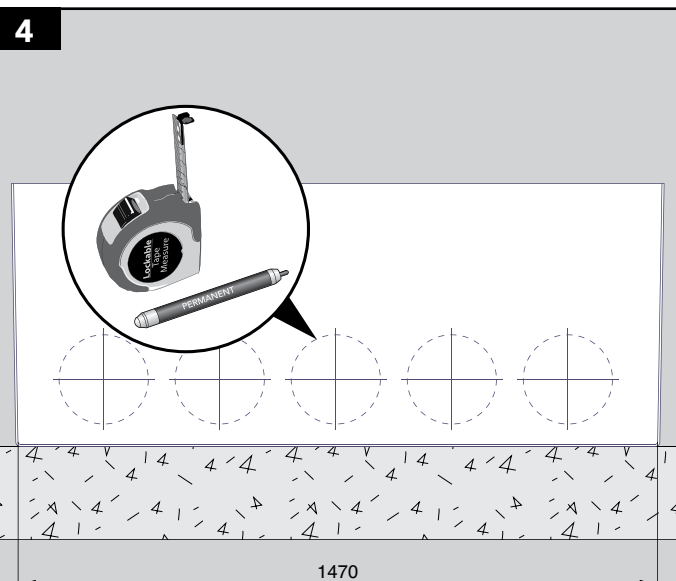
**WARNING** Care must be taken to position the pipework and conduit so it exits the sump at 90° angle to the sump wall. Otherwise undue stress will be placed on the sump wall and entry boot, which may lead to leaks in the future.



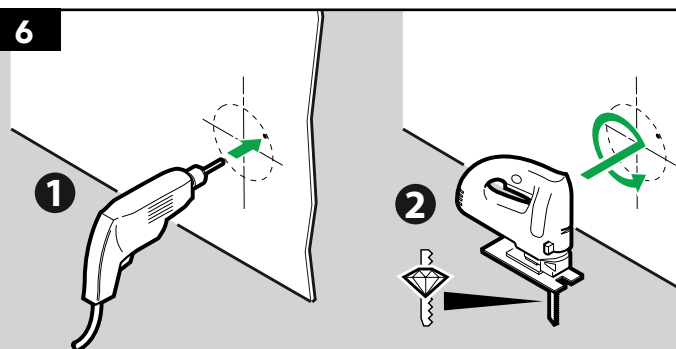
Drill a pilot hole to ensure the hole saw can be positioned and used safely.



Required equipment.



Mark out the required number of pipes in the sump.



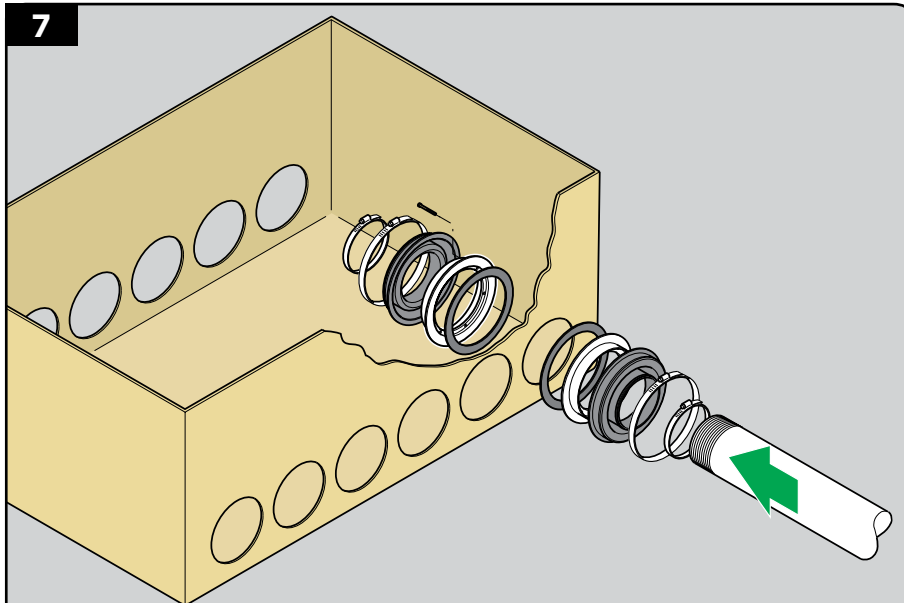
For larger holes (190mm) we recommend that the hole is marked and jigsaw is used to cut the hole. Firstly, drill a hole through the wall, so the jigsaw can be inserted and used easily and safely.  
(Fibreglass will blunt normal blades very quickly, we recommend diamond tipped blades or blades to cut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

# INSTALLATION INSTRUCTIONS

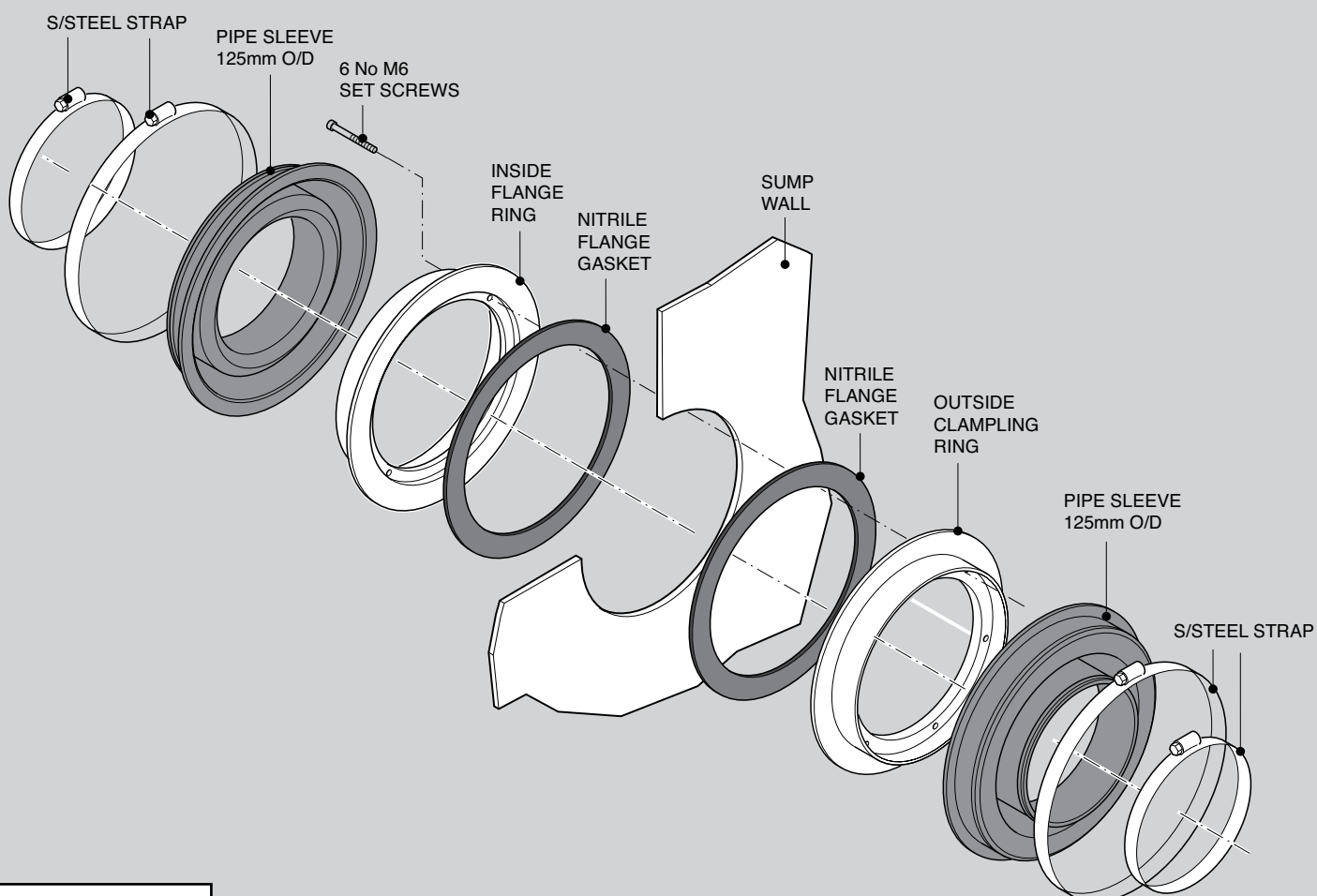
( Pipework and Entry Seal Kits )

**FIBRELITE**   
PART OF OPW a **DOVER** company

7



Fit pipework.



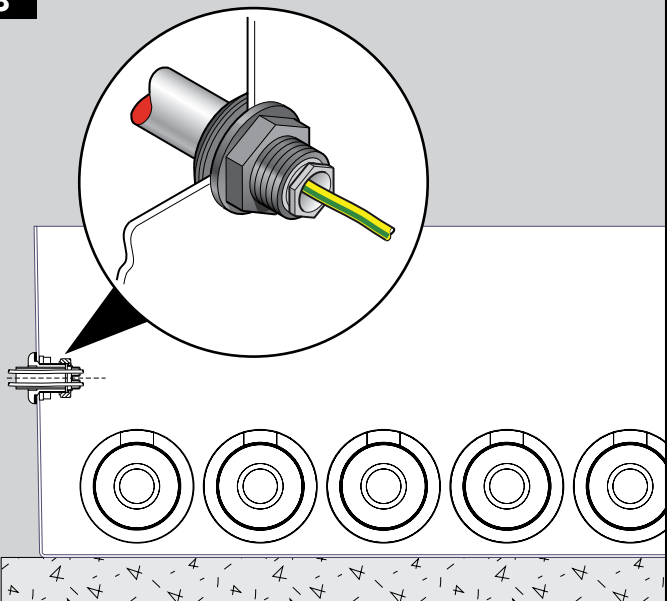
Double Sided  
Sealkit Assembly

# INSTALLATION INSTRUCTIONS

( Pipework and Entry Seal Kits )

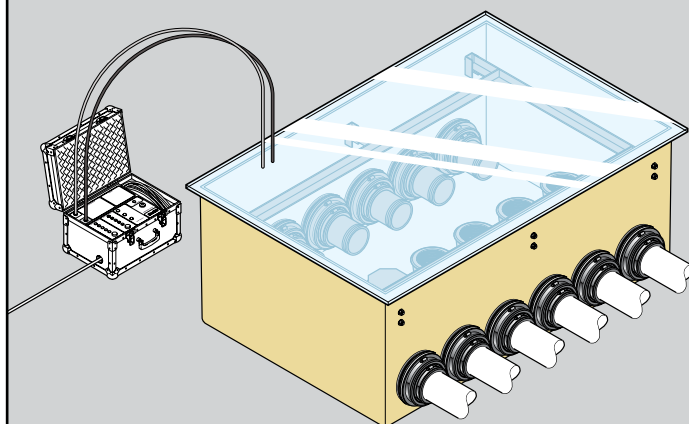
**FIBRELITE**   
PART OF OPW a **DOVER** company

8



Make all electrical penetrations and connections inside the sump.

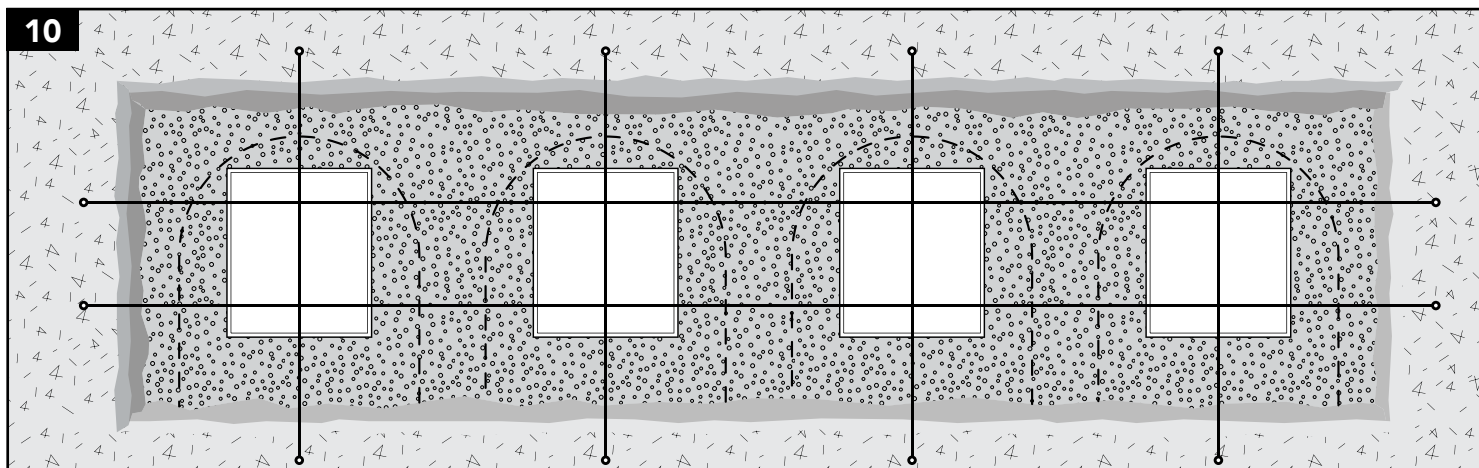
9



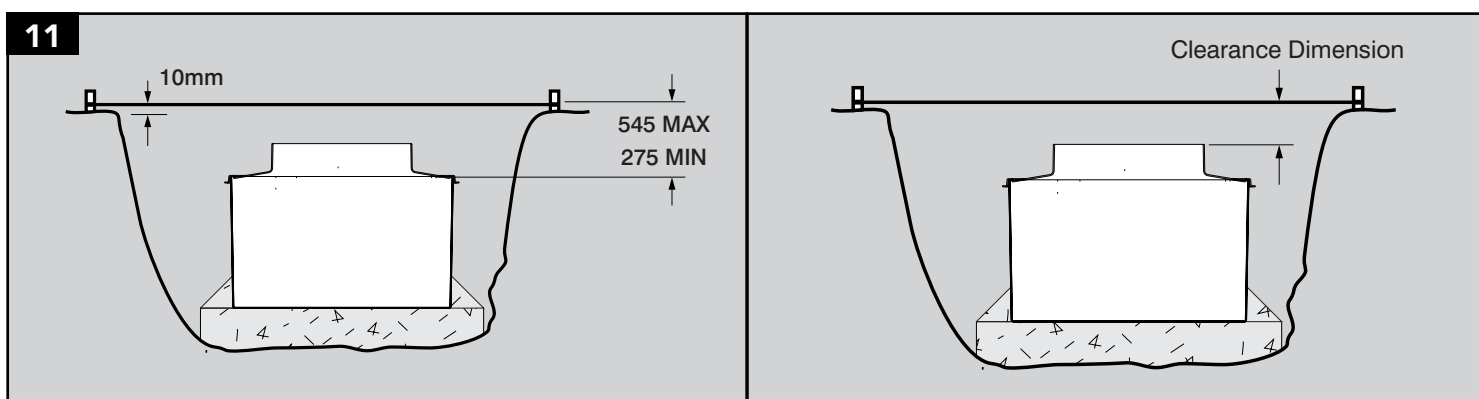
Vacuum test sump. Test **ONLY** at the 0.6m depth setting or irreparable damage may occur.

# INSTALLATION INSTRUCTIONS

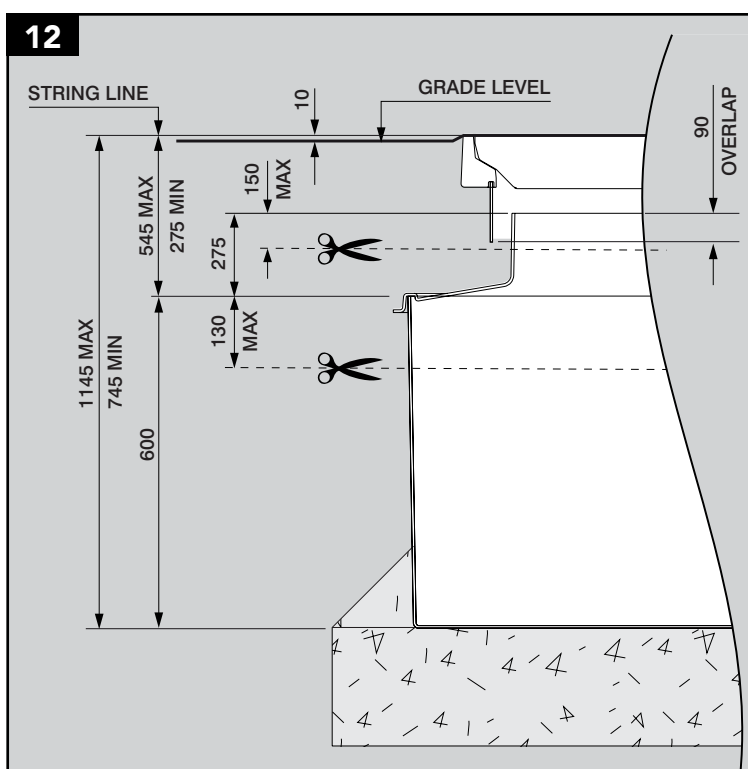
( Achieving the Correct Height )



Fix string lines 10mm above grade level across the length and width of the sump to highlight any falls. When backfilling ensure the pipework is not disturbed.



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.



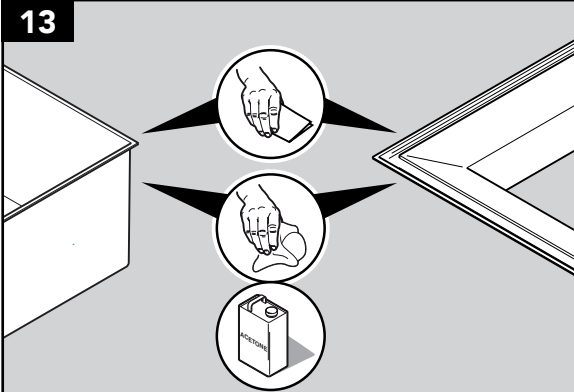
Measurement (clearance dimension)	Action
Max. 545mm Min. 275mm	No trimming required, corbel can be bonded onto the sump. Adjust frame height using hangers.
less than 275mm	<p>Option 1: If by trimming material (max of 150mm) from the corbel turret increases the 'clearance dimension' into the 545mm - 257mm range 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.</p> <p>Option 2: If by trimming 150mm from the corbel turret does not increase the 'clearance dimension' into the 545mm - 257mm range then the remaining material must be removed from the sump. A maximum of 130mm can be removed from the sump. Trim the corbel and skirt as described above in option 1.</p>
more than 545mm	The burial depth of the sump is greater than the maximum burial depth of the standard system. Contact Fibrelite.

# INSTALLATION INSTRUCTIONS

( Bonding the Corbel )

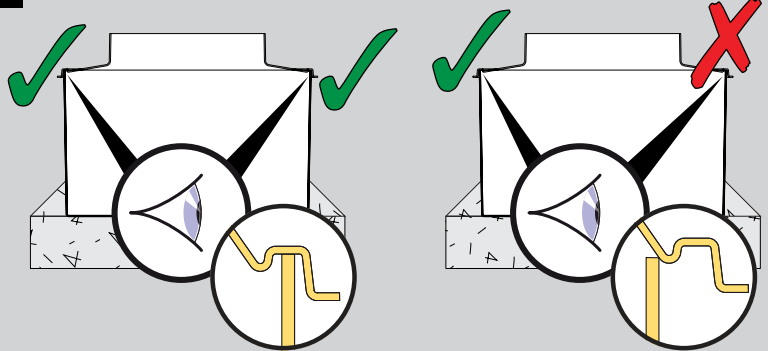
**FIBRELITE**   
PART OF OPW a **DOVER** company

13



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

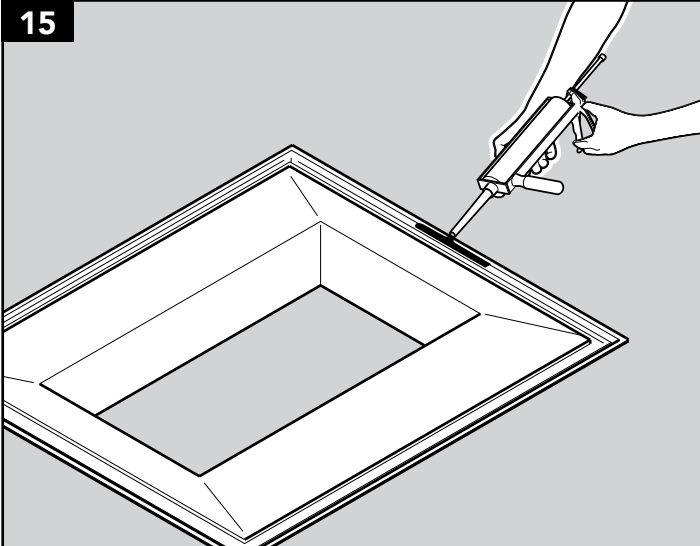
14



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.

15



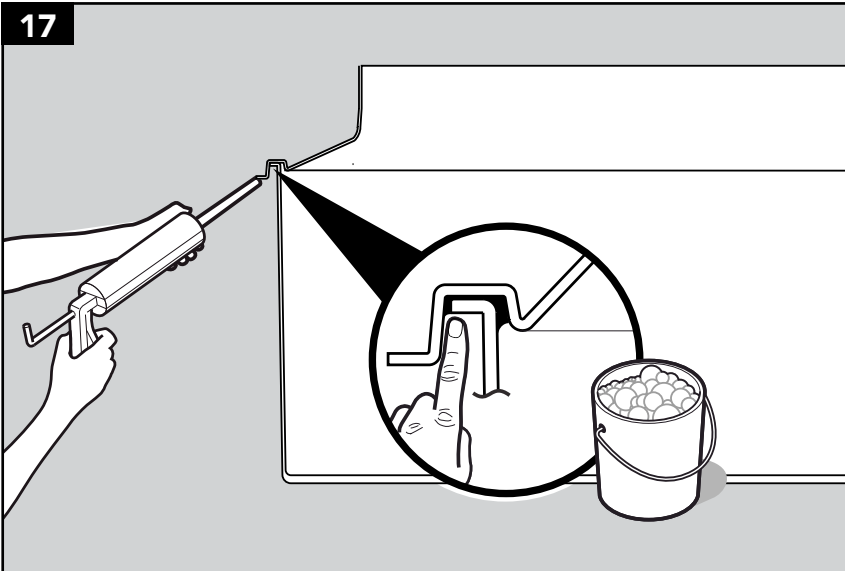
Apply 2 tubes of 40FC sealant in the groove of the corbel. Sealant should fill half the groove.

16



Place the corbel on the sump using 2 people and push it into position.

17



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

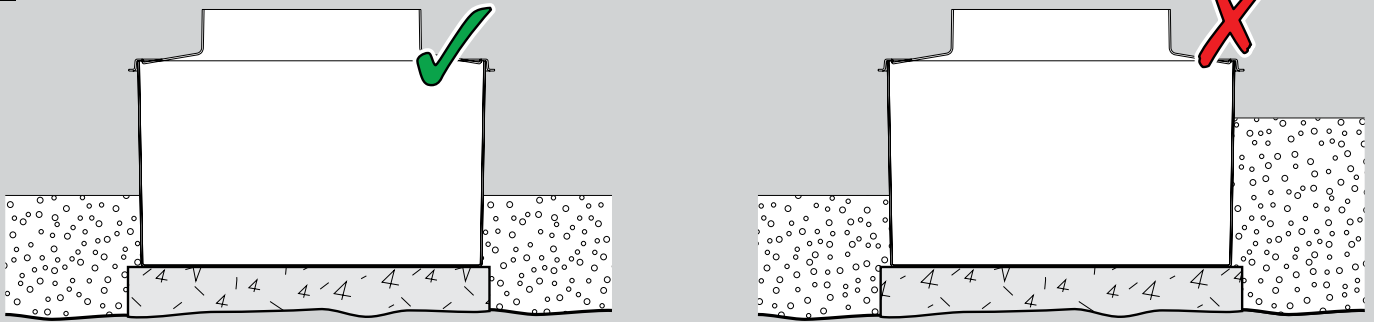
Use 2 tubes of sealant.

# INSTALLATION INSTRUCTIONS

( Backfilling )

**FIBRELITE**   
PART OF CPW a **DOVER** company

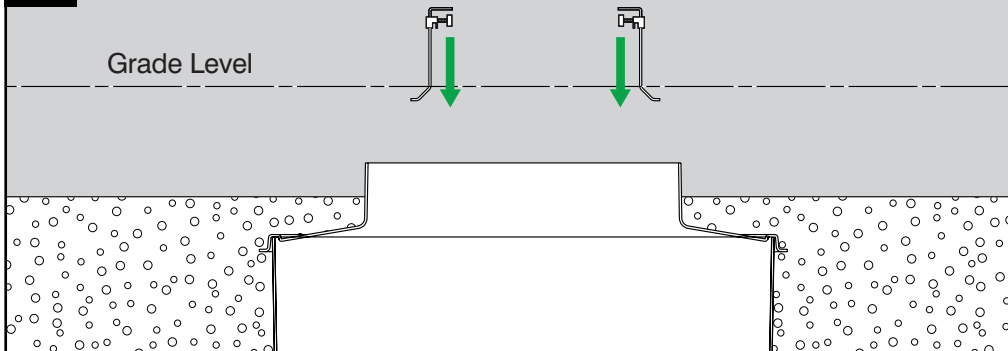
18



Carefully backfill the area around the sump with peagravel or sand. Backfill equally around the sump in layers to prevent damage or deformation.

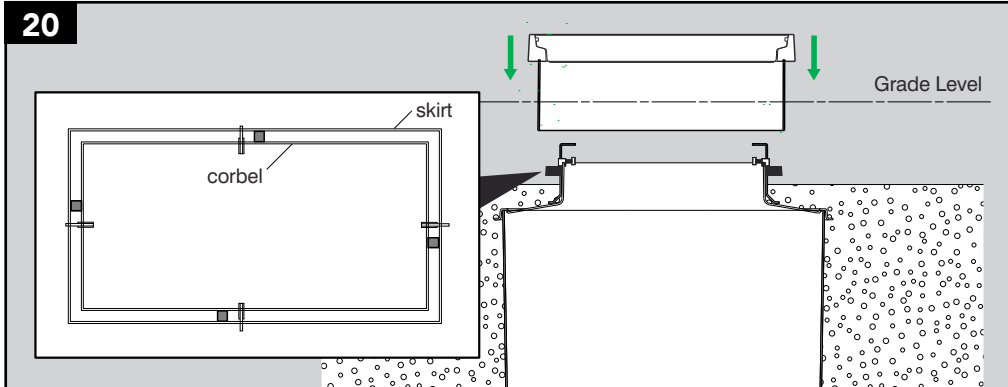
## ( Adjusting the Skirt and Frame to Grade Level )

19



Fix a string line 10mm above grade level across the sump, fix 4 hangers on the corbel top with base support facing out.

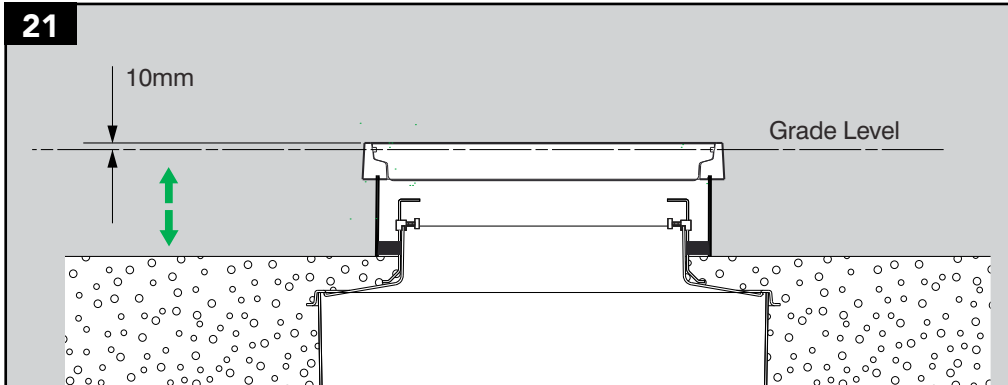
20



Put the skirt and frame on the hangers.

Locate the 4 foam blocks supplied between the skirt and corbel turret to centralise the skirt about the corbel.

21



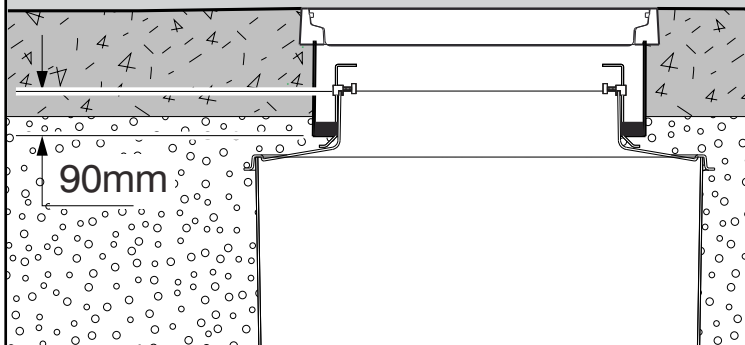
Adjust knobs to set the frame to stringline level, adjust for fall in grade. Set the frame 10mm above grade level.



# INSTALLATION INSTRUCTIONS

( Concreting )

22



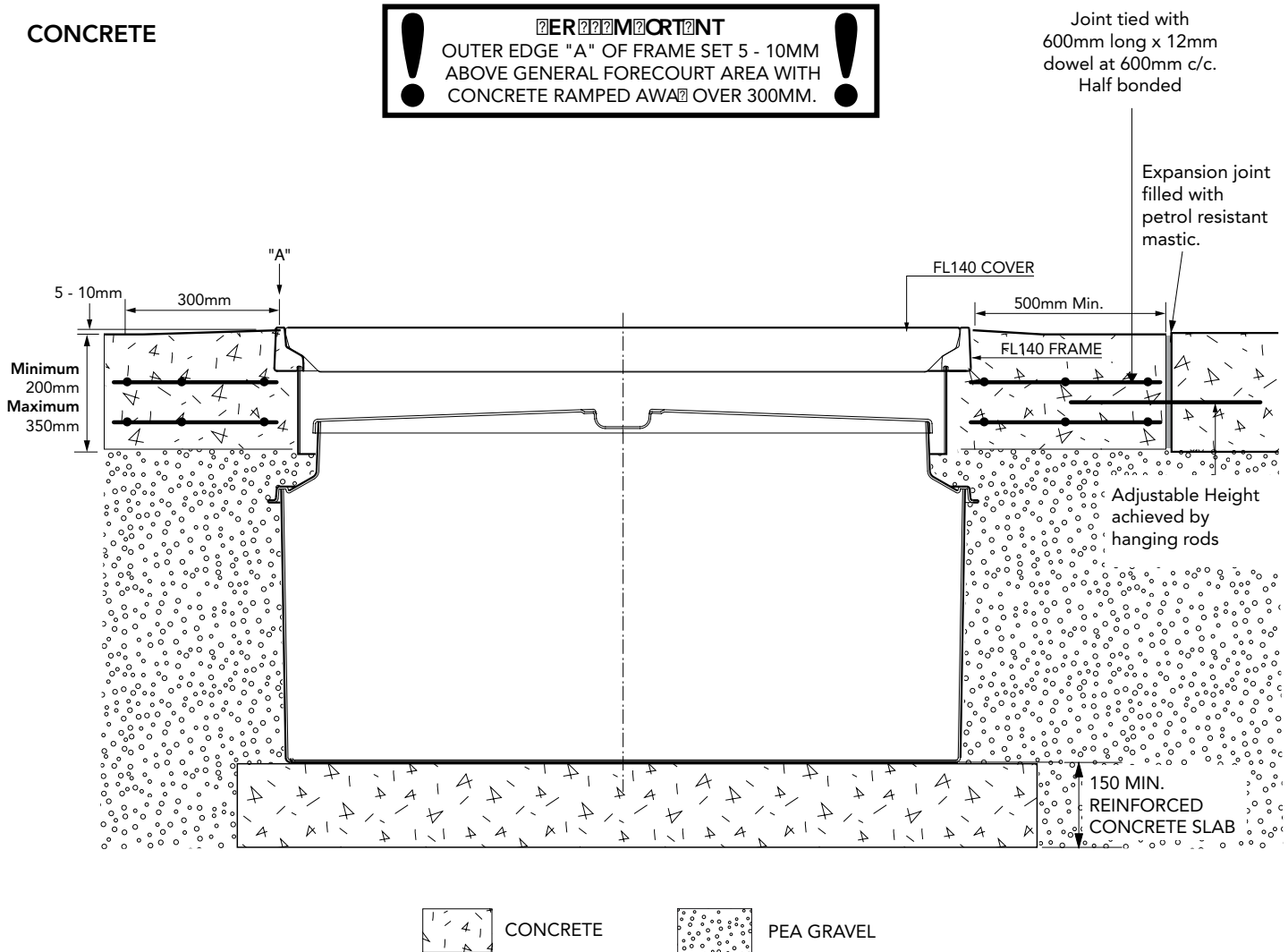
Ensure the void between corbel and skirt is kept free from concrete and a depth of 90mm overlap minimum is maintained.

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

23

CONCRETE

**! IMPORTANT !**  
OUTER EDGE "A" OF FRAME SET 5 - 10MM ABOVE GENERAL FORECOURT AREA WITH CONCRETE RAMPED AWAY OVER 300MM.



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.

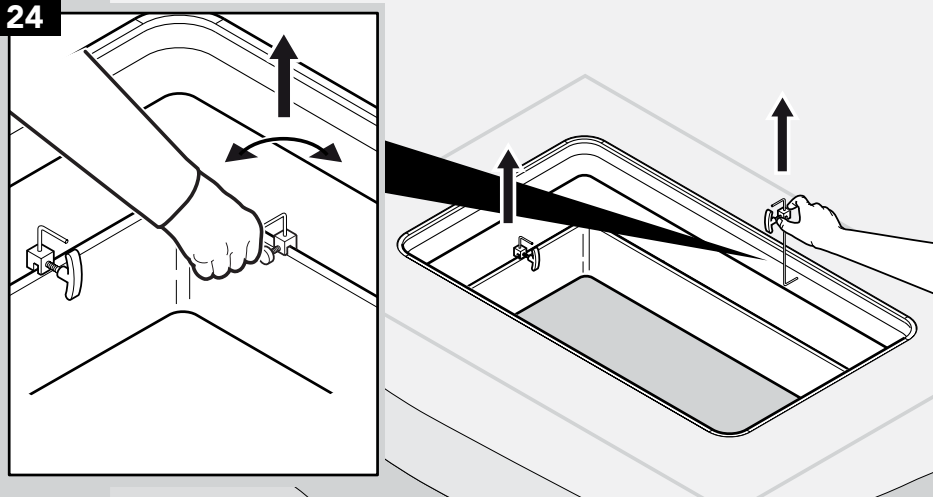


# INSTALLATION INSTRUCTIONS

( Concreting )

**FIBRELITE**   
PART OF OPW a **DOVER** company

24

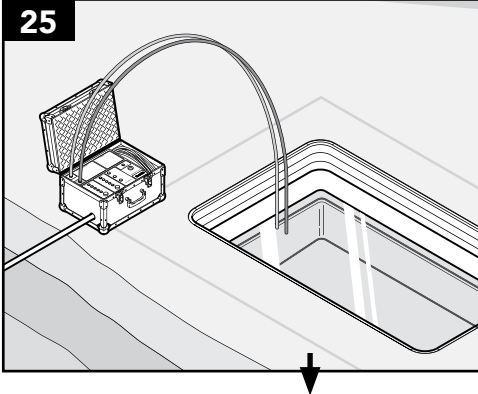


After minimum concrete cure time, hangers can be removed. Loosen the 'T' knob, push down on the rod, turn the rod through 90° and pull rod up to remove.

Complete other third party equipment installation inside the sump.

## ( Installation of Corbel and Skirt Sealant )

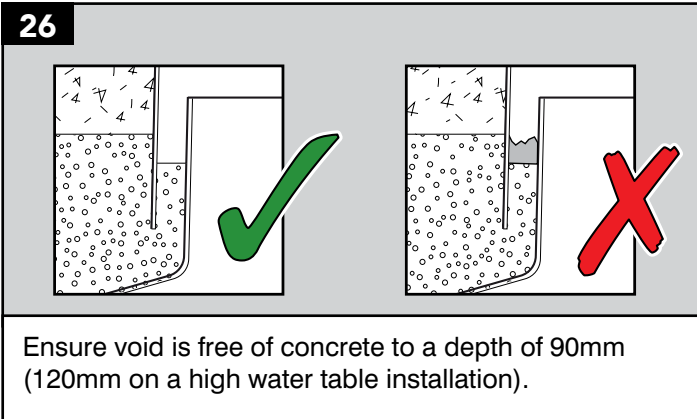
25



Carry out a vacuum test.

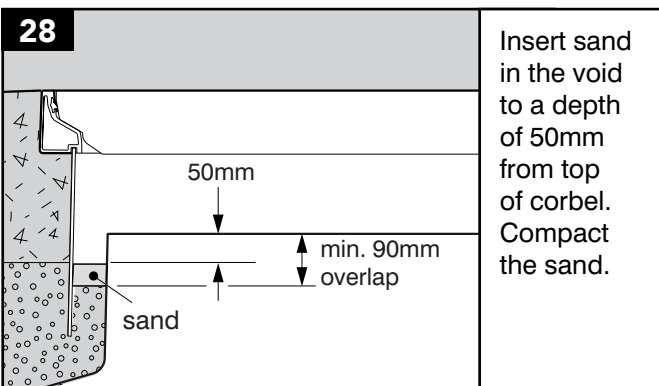
**Warning:** Test the corbel at a 0.6m depth setting only or irreparable damage may occur.

26



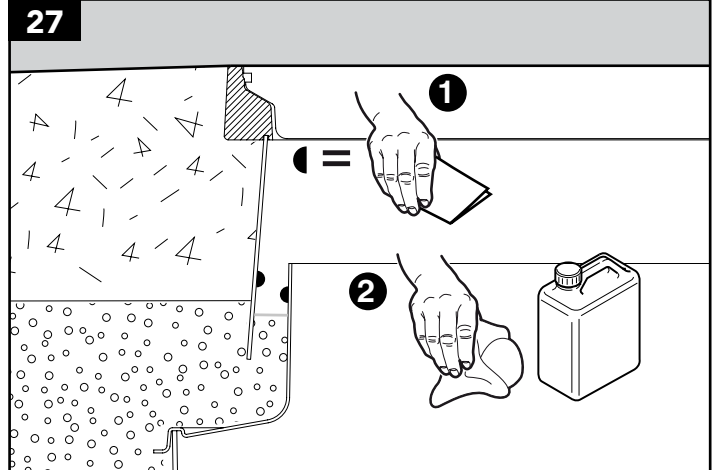
Ensure void is free of concrete to a depth of 90mm (120mm on a high water table installation).

28



Insert sand in the void to a depth of 50mm from top of corbel. Compact the sand.

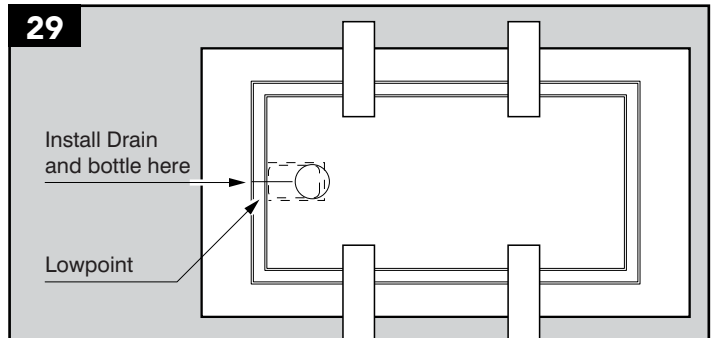
27



Abrade surface of corbel and skirt with sand paper.

Use acetone to clean surface of corbel and skirt. Ensure surfaces and channel are dry and free from dirt and grease.

29



Drain and bottle should be positioned away from pipe risers and STP. The drain must be installed at the created low point to do this. Compact the sand in a way to create a low point 10-15mm lower than the surrounding sand.

# INSTALLATION INSTRUCTIONS

( Installation of Corbel / Skirt Sealant )

# FIBRELITE

PART OF OPW a DOVER company

**30**

**Application Temp:**  
5 to 45°C  
(Do not apply below 4°C)

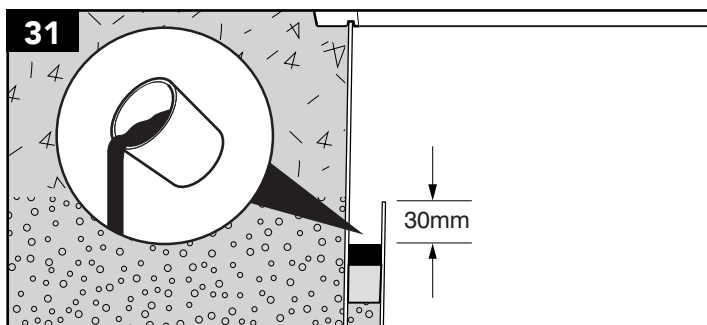
**Pot Life:**  
45 min at 25°C

**Tack Free (at 25°C):**  
2 1/2 hrs

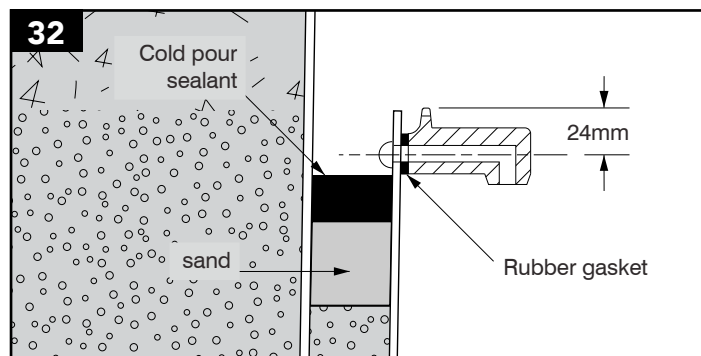
**Full Cure (at 25°C):**  
2 days

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

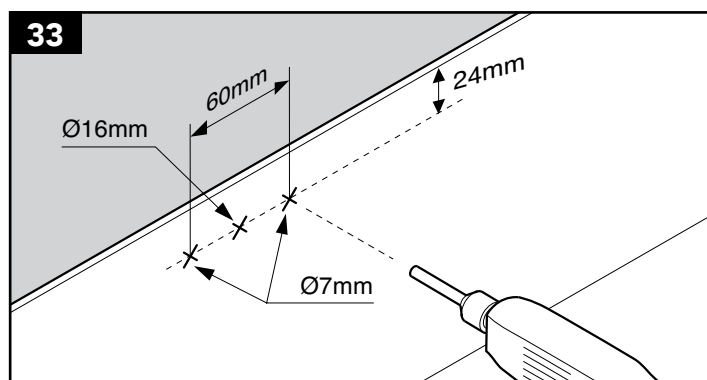


1 set of cans A+B will seal 2 sumps. Decant mixture from can A into can B to have more control when pouring the mixture into the void, onto the sand base. Avoid spilling the contents to ensure a clean finish on the side walls of corbel and skirt. The sealant shall be poured to level 30mm below the top 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).



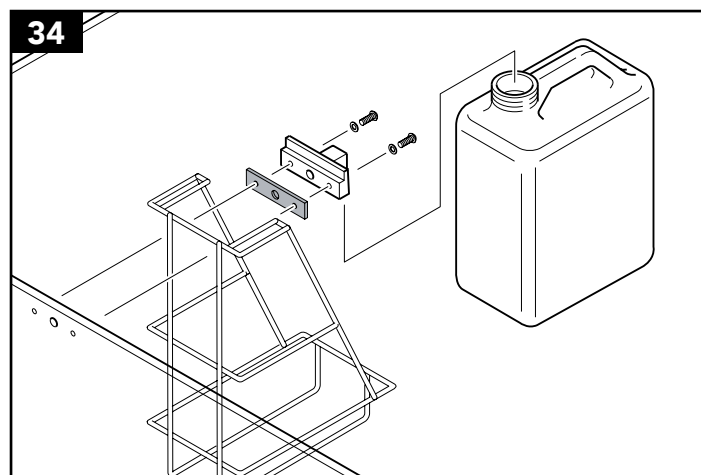
## Fitting Bottle Hanger

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.



Mark out the position of 2 No. 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.

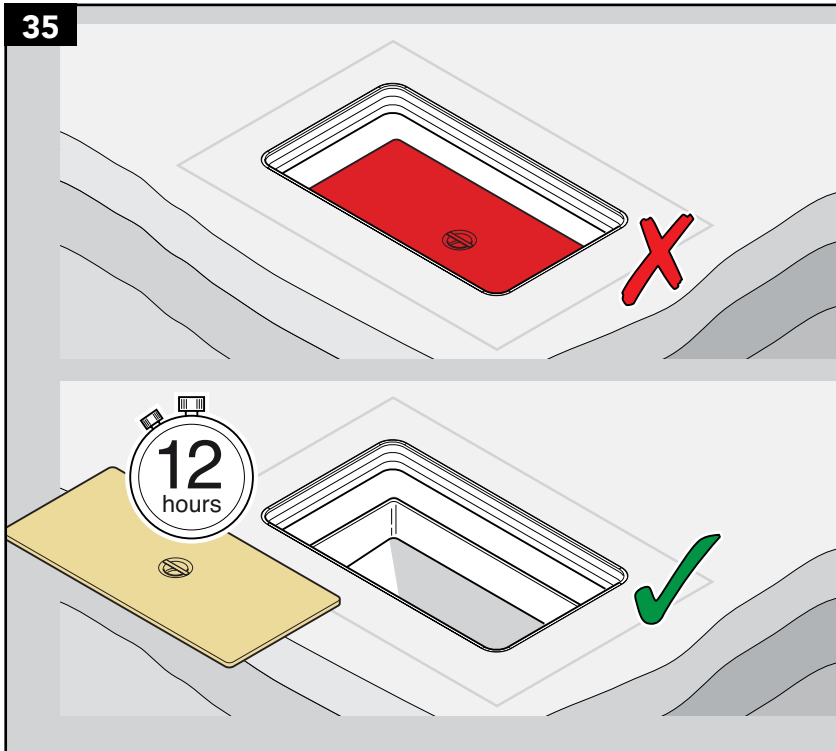
Mark out the position of the drain hole to align with the hole in the drain spout and drill 1 No. Ø16mm.



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.

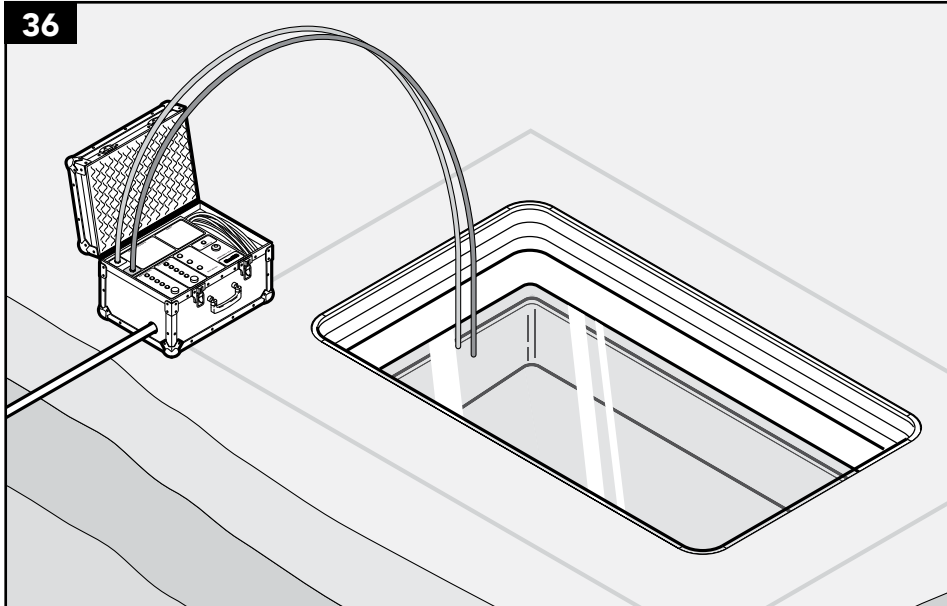
Locate the Condensation Bottle into the Bottle carrier and suspend the Bottle Carrier from the Bottle Hanger.

35



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

36



## Final Vacuum Test

Allow 12 hours for sealant to cure.

Once completed a final test can be performed on the frame.

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