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APPROVAL FOR USE AS A SEPTIC TANK ACCESSORY

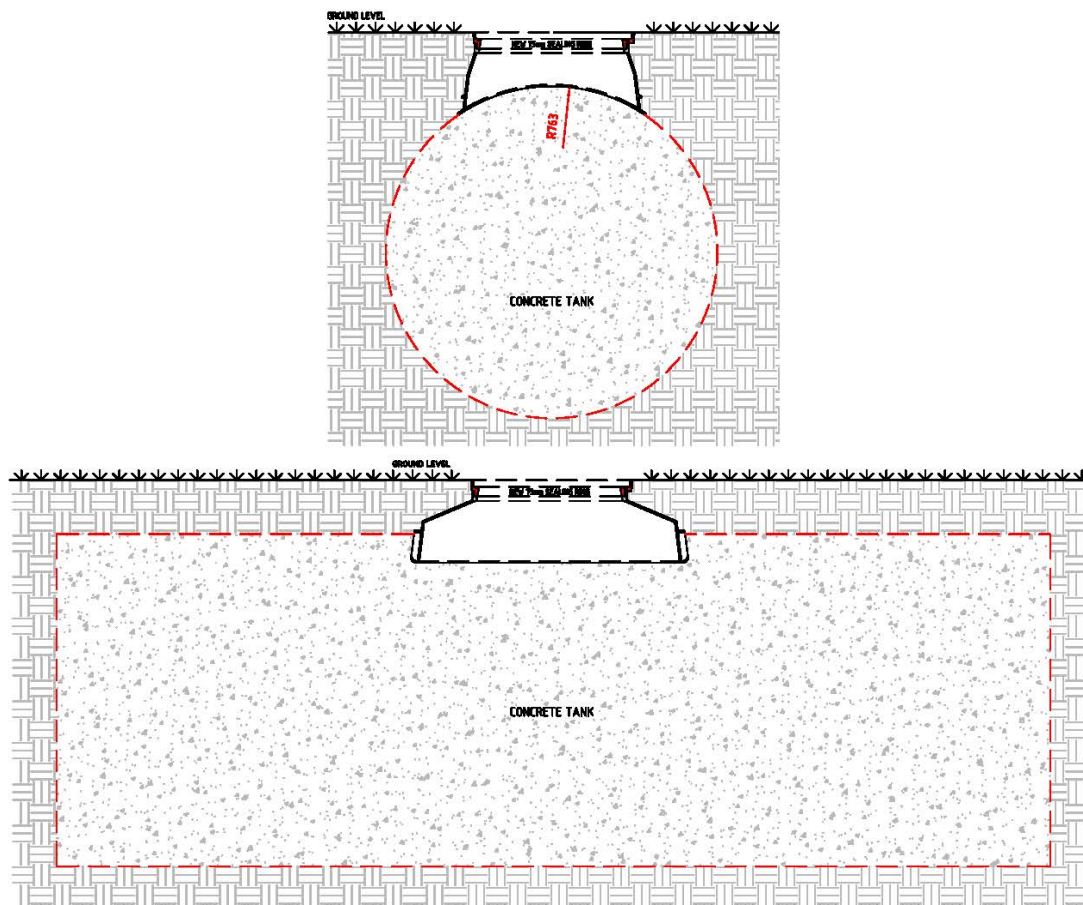
The saddle assembly consisting of the access cover, sealing ring, extension risers and extension fibreglass tube has been approved by SAI Global as a septic tank accessory for horizontal axis septic tanks. The approval can be read on the schedule to BioSeptic's StandardsMark Licence Certificate No SMK21556.

Follow this link:

<http://register.saiglobal.com/client/schedule.aspx?setID=SF01&custID=AS122916&appCertNo=SMKH21556>

N.B The saddle assembly was extensively demonstrated to about twenty members of the Environmental Health Australia (SA branch) Wastewater Special Interest Group in Adelaide on 29th March 2017. The meeting did not determine if Councils needed to be notified of each saddle installation (it was inappropriate to do so with the manufacturer present), but a member suggested that the installer should seek advice from the local council as to whether Council required the saddle installation to be inspected.

SKETCH OF THE SADDLE IN POSITION



OVERVIEW OF THE PRODUCT

The BioSeptic composite resin saddle is designed to fit over the existing tank access opening. It is bonded to the tank using a proprietary sealer. The original cover and any riser are removed. The saddle is supplied with a separate sealing ring that accommodates the access cover. If the tank is buried deeply below ground level, the sealing ring and cover are extended to ground level by one of two methods:

1. The sealing ring is extended to ground level by fitting a cut length of Flowtite DN 600 PN 1 fibreglass water pipe between the sealing ring and the saddle.
2. The sealing ring is extended to ground level by fitting composite resin turrets in 150mm increments between the sealing ring and saddle.

The sealing ring has a 8mm diameter 'O' ring that is compressed when the cover is bolted into the ring. This prevents water ingress into the tank. The cover is secured in place by three stainless steel bolts. The bolts and the lifting point are protected by polyethylene flush fitting caps.

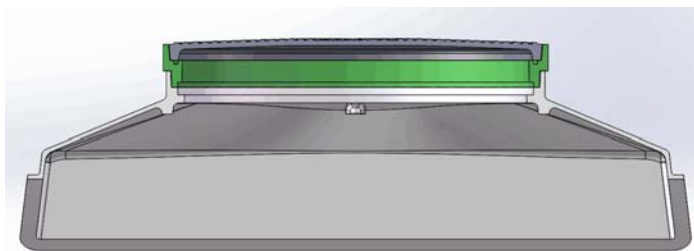
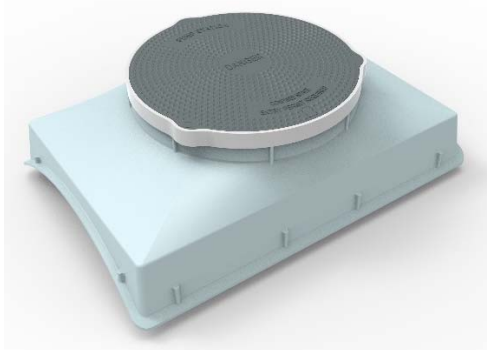
The saddle and its risers are designed to fit a horizontal axis tank of approximately 1525mm diameter, +/- 25mm. The saddle will be able to fit some smaller or larger diameter tanks with the use of packers.

TANK PREPARATION

Expose the top of the tank for at least a distance of 300mm around the access opening and remove the concrete cover and collar, if present. For tanks placed deeper in the ground a larger surrounding area may need to be cleared. The integrity and suitability of the tank should be assessed before installing the saddle assembly. The saddle requires a sound tank for support. If the tank is in bad condition a replacement tank should be considered.

The concrete surface around the opening should be cleaned of any soil.

FITTING THE SADDLE



Saddle, sealing ring and cover assembly

Place the saddle so that it is centred over the access opening. Check for any gaps around the perimeter against the tank and place packers such as window spacers or concrete panel packers in any gaps so that the saddle sits firmly on the tank. The saddle must have equal loading around its perimeter to prevent any movement (wobbling) between the saddle and the tank.

Make sure that the saddle is firmly seated and then place a spirit level across the transverse tank alignment to check that the opening is level.

If the tank was installed without the opening being at top dead centre the saddle may have to be offset to make the access opening level. The installer should determine the best position to provide good access and a level opening.

The level of the longitudinal direction will be set by the tank, however if it is required to have the access cover level in both directions the saddle can be packed until the saddle opening is level. The installer should decide that any large quantity of packers can be suitably sealed.

The distance between the packers should not exceed 300mm if the gap is less than 10mm, or 150mm for larger gaps.

Packers should be placed in the centre of the short or transverse side to support the saddle if a gap is present.

SEALING THE SADDLE

Once the saddle is satisfactorily positioned and any gaps filled with packers draw a pencil or marker pen line around the saddle perimeter. Remove the saddle and apply a wide bead of *Soudal Multibond SMX25 Flex and Seal*, or equivalent sealer inside the marked line. Make sure to apply sealer under and over any packers to hold them in position.

SMX25 Flex and Seal can be applied to a damp or wet surface.

Replace the saddle and press it firmly down onto the sealer. Wipe off any surplus sealer and using a finger or beading tool dipped in washing up liquid, smooth any edges to present a neat and clean finish.

FITTING THE SEALING RING

If the top of the saddle is 50mm or less below the finished ground level the sealing ring can be placed directly onto the saddle. The ring can be rotated through 360°.

Place the cover into the sealing ring and observe the alignment of the words. Rotate the sealing ring to align the words to the client's choice or to the best direction.

SEALING THE SEALING RING

To permanently fix the sealing ring to the saddle apply a bead of *SMX25 Flex and Seal* inside the saddle opening and fit the sealing ring. This is a permanent fit and it will be impossible to remove the sealing ring.

To seal the ring so that it can be removed to fit a future extension if it may be decided later to change the finished ground level, apply *SMX25 Flex and Seal* around the outer edge of the sealing ring/saddle joint. This will provide a water tight seal and secure the ring to the saddle. The sealer can be cut with a knife to remove the ring if required later. This is the more common method of fixing the sealing ring.

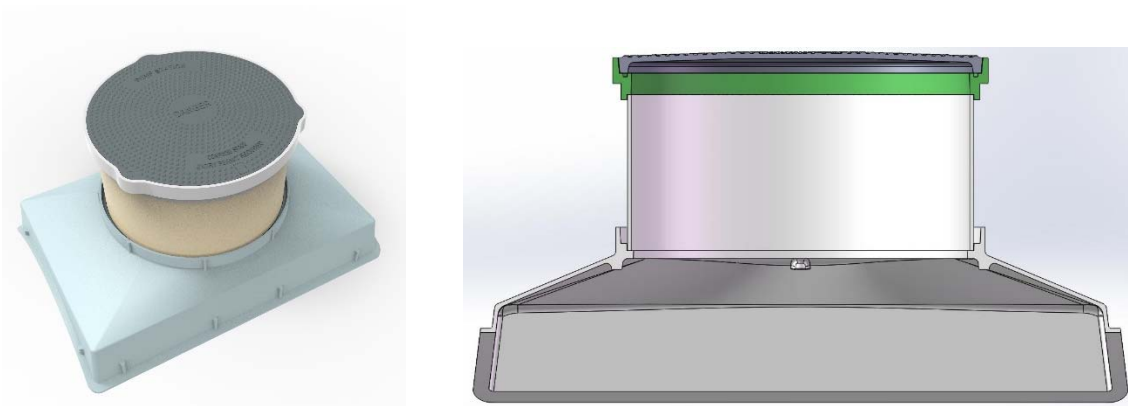
CALCULATING THE RISER HEIGHT

Fibreglass pipe riser

Place the sealing ring and cover in position on the saddle and place a straight edge across the excavated area to indicate finished ground level. Measure the distance from ground level to the top of the cover. Add 24mm to the measurement to determine the length of riser required to raise the access cover to ground level.

SEALING THE FIBREGLASS RISER

Place the fibreglass riser in the saddle opening and fill the void between the riser and the saddle with *SMX 25 Flex and Seal*. Next fit the sealing ring to the fibreglass riser and apply sealer around the outside of the joint.



Saddle, fibreglass riser, sealing ring and cover

TECHNICAL ASSISTANCE AND SALES

Technical assistance and sales information can be obtained from:

Access Septic Products Pty Ltd
6 Hull Court
Lonsdale SA 5160

08 8186 4017