

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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DEPARTMENT OF PUBLIC WORKS

AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 26 March 2025, issued an Agrément Certificate, details of which appear in the schedule hereto.

SCHEDULE

Agrément Certificate 2025/653

Subject: Shocrete Mark 2 (MK 2) Precast Concrete Toilet Top Structure**Certificate holder:** Shocrete (Pty) Ltd**Description:**

The Mark 2 Precast Concrete Toilet Top Structure is as follows:

- Wall and roof panels are of a waffle slab design, resulting in lightweight panels.
- MK 2 uses nylon bushes cast into the slabs, which are bolted together with galvanised M8 bolts.
- The floor slab size has been modified with three optional configurations, depending on whether the Shocrete pit lining is used or if contractors line the pits. If the Shocrete pit lining is used, the base slab can be made up of two sections – the main slab supporting the top structure, and a separate removable filler slab accommodating only the vent pipe. The two-component option has the advantage of easier handling and placing on-site, as well as the option to empty the pit when the pit is full.
- A galvanised Iron door manufactured by Shocrete (Pty) Ltd with a door latch.
- The Y8 and Y6 reinforcing bars are used to provide simpler casting as well as improved strength.

Component 1: Base slab.

- The components of the base slab for the Mark 2 toilet are thus:
- A 1250 mm x 1010 mm slab with a 200 mm hole for mounting of a standard 200mm VIP pedestal or a standard 200 mm UD pedestal; with a filler slab 1000 mm x 700 mm with a 110 mm tapered hole for the vent pipe.

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- A 1500 mm x 1000 mm slab with two 200 mm holes and 2 tapered 110 mm holes for use with double pit VIPs, together with two 1500 mm x 490 mm filler slabs.
- A 1500 mm x 1000 mm slab with a 200 mm hole for mounting a standard VIP or UD pedestal and a 110 mm tapered hole for the vent pipe. An additional filler slab of 1000 mm x 700 mm is optional for larger pits and where pit emptying is envisaged.

Component 2: Roof slab.

- The roof slab is made of a waffle-type casting to reduce the weight, and the dimensions are 1210 mm x 990 mm and 40 mm thick. The reinforcing is Y8 bars.

Component 3: Side wall panels.

- The side walls consist of 3 identical panels on each side, each with a waffle-type casting to reduce weight. They measure 1140 mm x 635 mm and 40 mm thick, and the reinforcing material is Y6 bars.
- The centre panel is fitted with a striker plate for the door latch.
- Angle iron for bolting panels together (50 mm x 50 mm galvanised)
- Foam tape is inserted between wall panels (8 mm thick, but other specifications are not given).

Component 4: Back wall panels.

- The back walls consist of two (2) identical panels with a waffle-type casting to reduce weight. The dimensions are 995 mm x 945 mm and 40 mm thick. The reinforcing is Y8 bars. The top panel has a 110 mm ventilation hole in the centre, while the bottom panel has an optional knock-out hole template for situations where the pedestal is a waterborne system.

Component 5: Galvanised door

- Shocrete (Pty) Ltd manufactures its own galvanised steel door. The dimensions for the doors are 1800 mm x 850 mm. Two types of ribbing are used, the first where the ribs are bent on site, and the second where the ribs are pre-done by the suppliers. The basic elements of the door (0.5mm full hard galvanised steel) are supplied to Shocrete (Pty) Ltd from an external supplier. The doors are then assembled at the Shocrete (Pty)

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Ltd.'s premises. Assembly entails attaching the strengthening channels, hinges and latches to the basic galvanised door. The doors are made rigid by bending 3 V-ridges into the door, folding the sides into a channel, and attaching 3 horizontal lip channels across the doors. The door is fitted with the unique EnviroSan cc closing and locking latch.

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>.

Copies are obtainable from: Chief Executive Officer (CEO)

Agrément South Africa, P O Box 1022, Garsfontein, 0042