



# VULA

## NAMIBIA

QUALITY PRECAST CONCRETE PRODUCTS



*SUPERIOR SANITATION THROUGH INNOVATION*

**SABS**  
ISO 9001



### Advantages of the Eldoloo Toilet Structure

- Easy to assemble on site. No electrical tools required for assembly.
- Maintenance free.
- Easy to dismantle and reassemble elsewhere.
- No structural changes required for upgrading to a flush system.
- Panels can be carried easily by workforce.
- A unique designed rubber seal can be ordered and attached to the bottom of the vent pipe, that will prevent water from seeping into the pit structure.
- The structure allows for an aesthetically smooth finish on the inside of the toilet.

### Manufacturing Process

The Eldoloo Structure is manufactured with high strength reinforced concrete, 50mpa @ 28 day cube test and is strengthened with polypropylene fiber.

All panels are reinforced with 4,0mm diameter deformed wire in mat form specially designed for our purpose. The Base slabs are reinforced with 5.6mm diameter deformed wire in mat form. The reinforced steel mats are positioned in the panels with plastic spacers to conform to internal specifications.

The Eldoloo Toilet and Pit Structure, are certified by a Registered Professional Engineer.

### Galvanized Door

The galvanized door has two spring-loaded hinges which is unique compared to all other toilet doors. It has an easy grip handle and an effective locking device on the inside. The locking device, when pushed into position after closing the door, will prevent severe winds from opening the door, thus eliminating unnecessary door damage. The door can be locked from the outside with a pad lock. A toilet roll holder is mounted to the inside of the door.



### Required tools for construction:

- Spirit Level
- Heavy Duty Gloves
- Rubber Hammer
- Eldoloo spanners will be provided for the assembly of the structure.

### Design and Training

The Eldoloo Toilet structure is designed to create employment for non-skilled persons from local communities (men and women).

Proper training is provided in the assembly of the structure at no additional cost.

We will support the project from the beginning to the completion thereof.

### Transportation

Panels are packed in bundles and transported on 31 ton or smaller crane trucks.

### Offloading and handling on site

All panels are mechanically offloaded and not by hand.

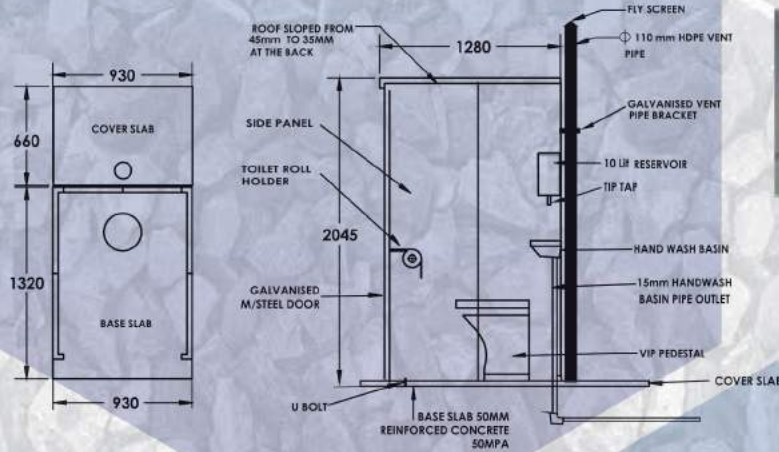
Two to four people, both men and women, can carry the panels.

It is important to note that the panels must not be abused at any time.



## ELDOLOO VIP TOILET STRUCTURE

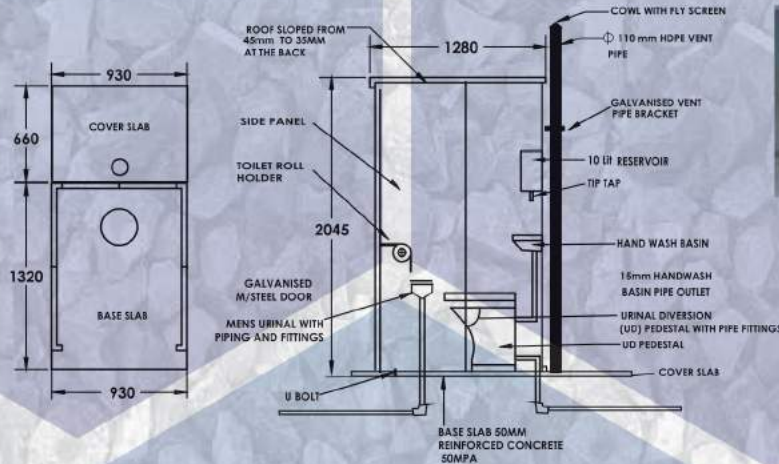
This pedestal is designed primarily for a VIP toilet structure. Due to its smooth surface on the inside, it is easy to clean and maintain.



VIP Pedestal

## ELDOLOO URINAL DIVERSION TOILET STRUCTURE

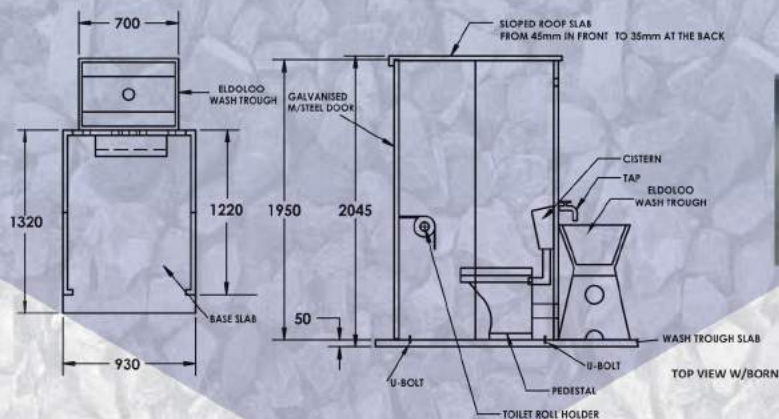
The urinal diversion system is designed to allow urine to flow through a pipe into the ground adjacent to the pit. Hand washing water will flow from the hand washing basin which is connected to the pedestal to the front of the pedestal where the UD area is situated. This waste water will cleanse the UD system as well.



UD Pedestal

## ELDOLOO FLUSH TOILET STRUCTURE

The Flush Toilet System is designed to be directly connected to a municipal sanitation infrastructure. When there is no sewer system available our flush toilet can be used as a pour-flush. It functions the same as the flush toilet except that instead of water coming from the cistern above, it is poured in by the user. The waste flows to a leach pit that can be supplied.

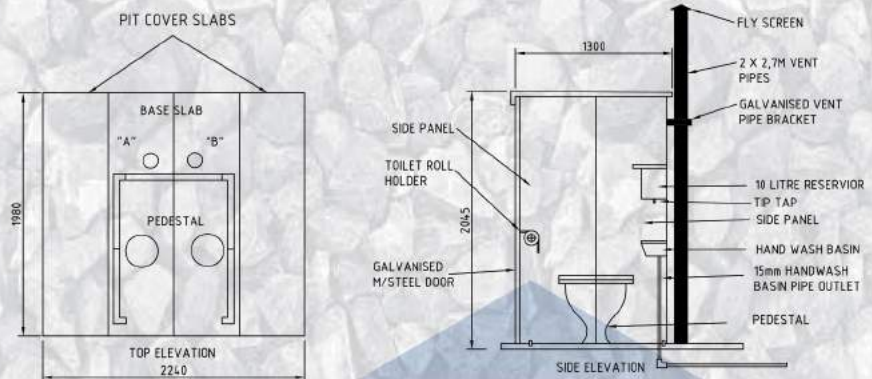


Flush Pedestal



## ELDOLOO DOUBLE VIP / UD TOILET STRUCTURE

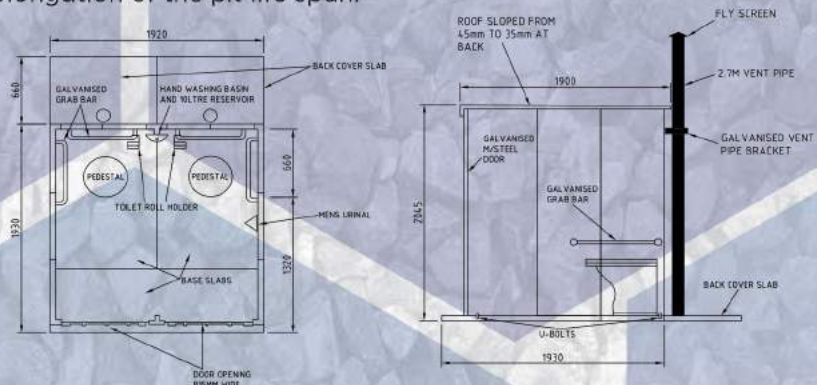
This structure is specially designed to prolong the life span of the pit, by rotating the pedestal from one pit to the other. The structure is erected onto the Eldoloo double Pit Structure. (4m<sup>3</sup>) This unit comes in both a VIP and UD.



## ELDOLOO DOUBLE VIP / UD TOILET STRUCTURE FOR THE PHYSICALLY CHALLENGED

This structure is designed to accommodate the needs of the physically challenged. It is easy accessible for a wheelchair to enter, to move backwards and forwards without being hampered due to its dimensions. The pedestal is also positioned in such a manner that allows the physically challenged easy movement from the wheelchair onto the pedestal. Handles are also located inside the structure on both sides of the pedestal which allows the person easy movement from the pedestal to assist the physically challenged.

The structure can be erected on two Eldoloo Pit Structures or two brick/block build structures. By rotating the pedestal from one pit to the other will result in the prolongation of the pit life span.



## ELDOCRETE WASH TROUGH (80L) & PEDESTAL

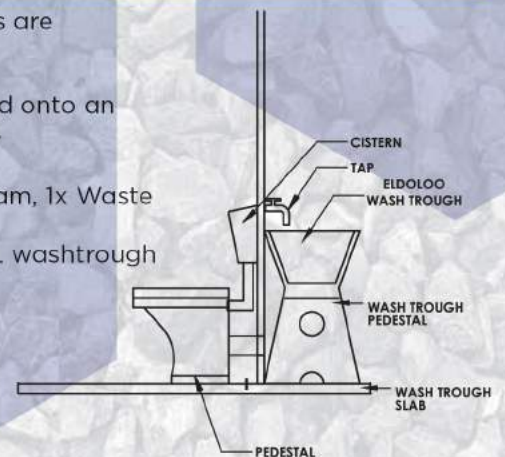
Wash Troughs & Wash Trough Pedestals are manufactured by Eldocrete. Ideal for Flush Toilets.

It is easy to assemble and can be placed onto an Eldocrete Wash Trough Slab (Optional).

### Consists of:

1x Wash Trough, 2x Pedestals, 1x Tie Beam, 1x Waste Piece, Nuts and Washers.

Eldocrete can also supply a smaller 20L washtrough that bolts onto the toilet structure





## ELDOLOO 1.75M<sup>3</sup> RECTANGULAR PIT STRUCTURE

## ELDOLOO 1.75M<sup>3</sup> RECTANGULAR SEALED PIT STRUCTURE

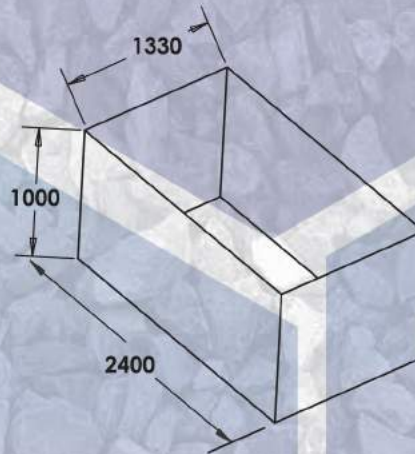


The concrete pit structure consists of 4x Long beams, 4x short beams, 6x side panels, 2x end panels and 1 x pit cover slab.

### Tools required for assembly:

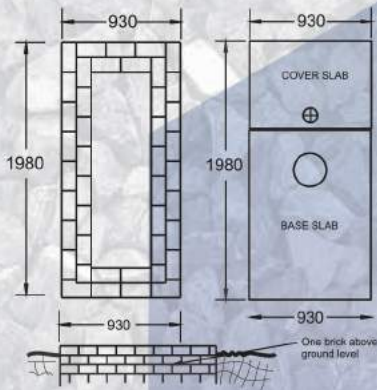
A spirit level, heavy duty gloves, 3m measuring tape. Eldoloo spanners will be provided for the assembly of the pit structure.

### PIT HOLE DIMENSIONS



To prevent water contamination in high or low water table conditions, all pits must be sealed watertight. Pits are completely sealed with a 250 or a 500 Micron High Density Polyethylene (HOPE) Sleeve. To empty, if required, remove the vent pipe and then the pit cover slab.

### BUILDING A SINGLE PIT



## ELDOLOO 4M<sup>3</sup> RECTANGULAR PIT STRUCTURE



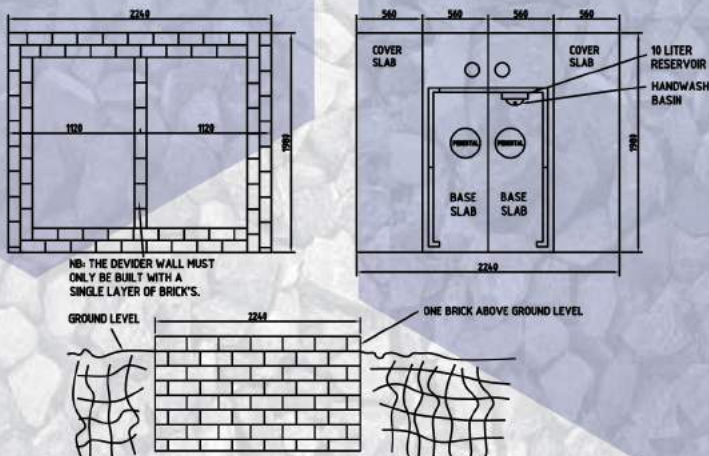
### ELDOLOO VIP PIT STRUCTURE (4m<sup>3</sup>)

Consists of the following:  
6 x Short Beams, 4 x Long Beams,  
6 x Side Panels, 8 x End Panels, 2 x Pit Cover Slabs & 3 x Pit Divider Panels.

Tools required for assembly: A spirit level, heavy duty gloves, 3m measuring tape. Eldoloo spanners will be provided for the assembly of the pit structures.



### BUILDING A DOUBLE PIT



When pits are lined with bricks or blocks, the top structure can also be positioned onto these pits, provided that it complies with the base and pit cover slab dimensions as per our specifications. We strongly recommend that an engineer provides supervision during construction of a brick or block lined pit system.





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