

# resoloo

## Sanitation



### DOUBLE CHAMBER VIP

## resocrete LamPlas Composite Modular Cladding Systems

As the name suggests, the **moducrete** range consists of a spectrum of modular products which, through unique design and assembly innovations, results in quick installation, reducing erection time on site, and minimizing disruptions to the work place.

### Design

**moducrete** cladding systems finally offer the market a truly unique quality architectural cultured stone and resin composite cladding system for internal and external applications.

**moducrete** is available in any of our stone colours, our plain base grey compound for hard wearing finishes, or in a satin epoxy coated finish to any colour requirement and can be produced with a satin smooth or designer textured finish, or custom made to the project or designers specifications.

From conception to CAD, from create to install, the aesthetic flexibility **moducrete** is able to offer is nothing short of remarkable.

## Introducing The **resoloo** DOUBLE CHAMBER VIP Modular Toilet, addressing the core of Africa's sanitation needs

In trying to satisfy Africa's ever increasing housing and sanitation shortage, **resocrete** was tasked with solving a number of unique and fundamental problems, i.e:

- High transportation costs due to heavy weight of alternative products / concrete
- Transportation challenges due to lack of road infrastructure needed to transport heavy alternatives
- Up to 20 percent breakages during transportation due to fragile nature of concrete
- Slow erection time due to heavy component pieces
- Hygiene concerns due to high porosity of concrete
- High maintenance and corrosion due to steel frame structure
- Slow production due to curing time of concrete and bricks
- Difficult to move or relocate due to excessive weight and method of construction
- Adaption to water-borne sewerage limitations
- High Carbon Footprint due to manufacture from concrete / cement
- High internal heat build-up



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Recently launched from the **moducrete** range of products is the new **LamPlas** Resin Composite Modular Cladding System

Made from primarily waste products, recycled materials, by-product materials and natural stone, and with a zero moisture absorbency, **LamPlas** attains 98% green-build properties whilst retaining superior compressive strength, flexural strength, acoustic damping properties, as well as outstanding thermal blanketing

To meet the challenges outlined above, **resocrete** have designed a unique modular toilet system which is included in the stable of the **resocrete** range of products.

The **resoloo** VIP (ventilation improved) pit latrine is designed for fast erection, ease of moving / relocation, superior hygiene and zero maintenance.

Unlike associated products which are made from pre-cast concrete and cement block, **resoloo** Toilet Modules are fabricated from **resocrete's** **LamPlas** Composite Modular Cladding Panels resulting in a product with the following characteristics:



**Product Characteristics:**

- Incredible Light weight and Durable Product (up to 10 times lighter than concrete products)
- Sizeable transport savings due to lightweight product
- Simple, efficient and fast erection time (maximum 15 Minutes)
- Ideal for difficult and inaccessible terrain
- Flexural strength 16 times that of concrete products
- Unlikely transport and erection damage due to High Impact Resistance resulting in large saving in breakages
- Smooth non-porous wall, floor and roof panels are easy to keep clean and therefore far more hygienic than brick or concrete alternatives
- Zero maintenance or corrosion due to resin composite technology.
- Zero percent moisture absorption.
- Door manufactured out of **LamPlas** Resin Composite - no corrosion or scrap value.
- Unique dual operation safety door latch for added security
- Toilet Bowl available with optional urine diversion system
- Slab pitched with drip edge to allow for water run-off.

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## Product Specifications

### Toilet Bowl

- Envirosan VIP 480 plastic extruded toilet bowl for improved sanitation
- Optional Urine diversion system available

### Dual Vent Pipes

- Two 110mm diameter vent pipes fitted to the back of each toilet venting the pit below
- Vent pipes protrudes 500mm above arched roof
- Vent pipes fitted with Envirosan fly screen VIP

### Hand Washing Facility

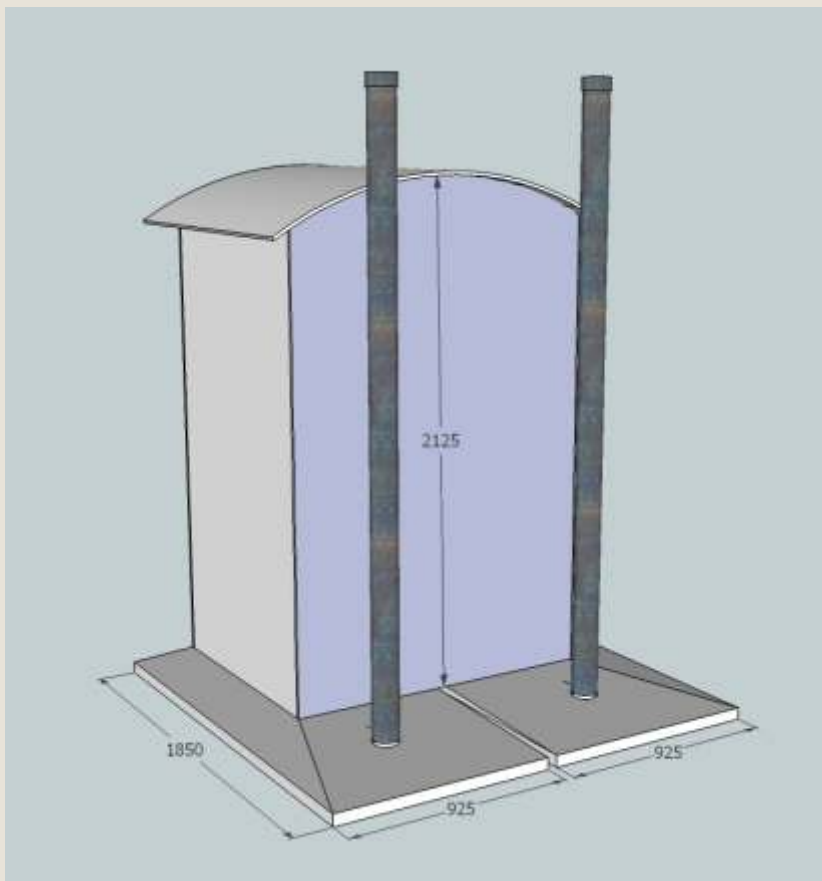
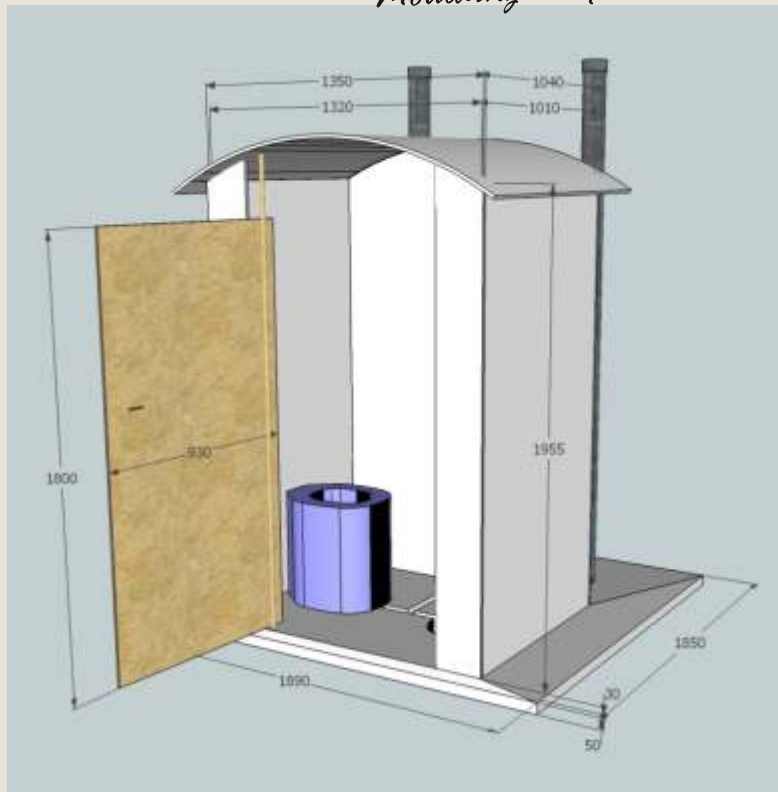
- Envirosan hand-washing bracket with Tip-Tap and 2 liter water bottle
- Hand-washing facility fitted to interior or exterior side wall of toilet

### Floor

- StructaBond** resin composite encasement slab 1890mm x 1850mm x 50mm thick
- Encasement slab filled with concrete to a minimum 30mPa compressive strength
- Slab pitched run-off of 30mm with drip edge
- Slab in 4 components - maximum component weight 120 kg



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### Walls

- Side walls 1955mm high x 1040mm internal width x 15mm thick
- Back wall made in two components of 1955mm high arching to 2125mm high x 660mm internal width x 15mm thick
- Weight of side walls 16 kg each
- Weight of each back wall 12.5kg
- Walls fabricated from **LamPlus** resin composite

### Roof

- Roof 1550mm wide x 1240mm deep x 15mm thick
- Roof fabricated in one piece from **LamPlus** resin composite
- Roof arched 220mm for water run-off as well as added ventilation and head clearance
- Weight of roof 18.5 Kg

### Door

- Door fabricated from **LamPlus** resin composite
- Door size 1800mm high x 930mm wide x 10mm thick
- Door weight 9.5 kg
- Door fitted with Envirosan dual operation latch
- Back of toilet door fitted with toilet roll holder

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