

resoloo

Sanitation



VIP MARK II 1135 x 900

Resocrete LamPlas Polymer Composite 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 MK II 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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Moulding the Future

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)
- Bottom of walls fitted with 10mm diameter dowels for easy location and installation onto slab
- Easy to disassemble and relocate - only 2 people required!
- 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.
- Specialised Plastic Injection Moulded door - will not corrode.
- Door also available in **LamPlas** Resin Composite.
- Unique dual operation safety door latch for added security
- Toilet Bowl available with optional urine diversion system
- Toilet Bowl easily adapted to water-borne sewerage
- Available with no steel components for high corrosion areas
- High insulation properties achieved through **LamPlas** resin composite technology.
- 98 percent Green-build fabrication



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Product Specifications

Toilet Bowl

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

Vent Pipe

- 110mm diameter vent pipe fitted to back of toilet
- Vent pipe protrudes 500mm above arched roof
- Vent pipe fitted with Envirosan fly screen VIP

Hand Washing Facility

- Optional 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

- **LamPlas** Resin Composite slab 1500mm x 1200mm x 30mm thick
- Weight 26Kg
- **LamPlas** Resin Composite slab surface therefore impervious to moisture and bacterial attack

Walls

- Side walls 1900mm high x 1135mm wide x 15mm thick
- Back wall 1900mm high x 900mm wide x 15mm thick
- Weight of side walls 22kg each
- Weight of back wall 12kg
- Walls fabricated from **LamPlas** resin composite

Roof

- Roof 1040mm wide x 1280mm deep x 15mm thick
- Roof fabricated from **LamPlas** resin composite
- Roof arched 150mm for added ventilation and head clearance
- Weight of roof 13.5 Kg

Door - 2 alternatives in Plastic or Composite

Plastic Injection Moulding

- Door fabricated from 2mm thick injection moulded plastic
- Door size 1845mm high x 770mm wide x 20mm thick
- Door fitted with Envirosan dual operation latch
- Back of toilet fitted with toilet roll holder
- Weight of door 9 Kg

Composite

- Door fabricated from **LamPlas** resin composite
- Door size 1750mm high x 770mm wide x 15mm thick
- Door fitted with Envirosan dual operation latch
- Back of toilet fitted with toilet roll holder
- Weight of door 9 Kg

