resoloo
Sanitation

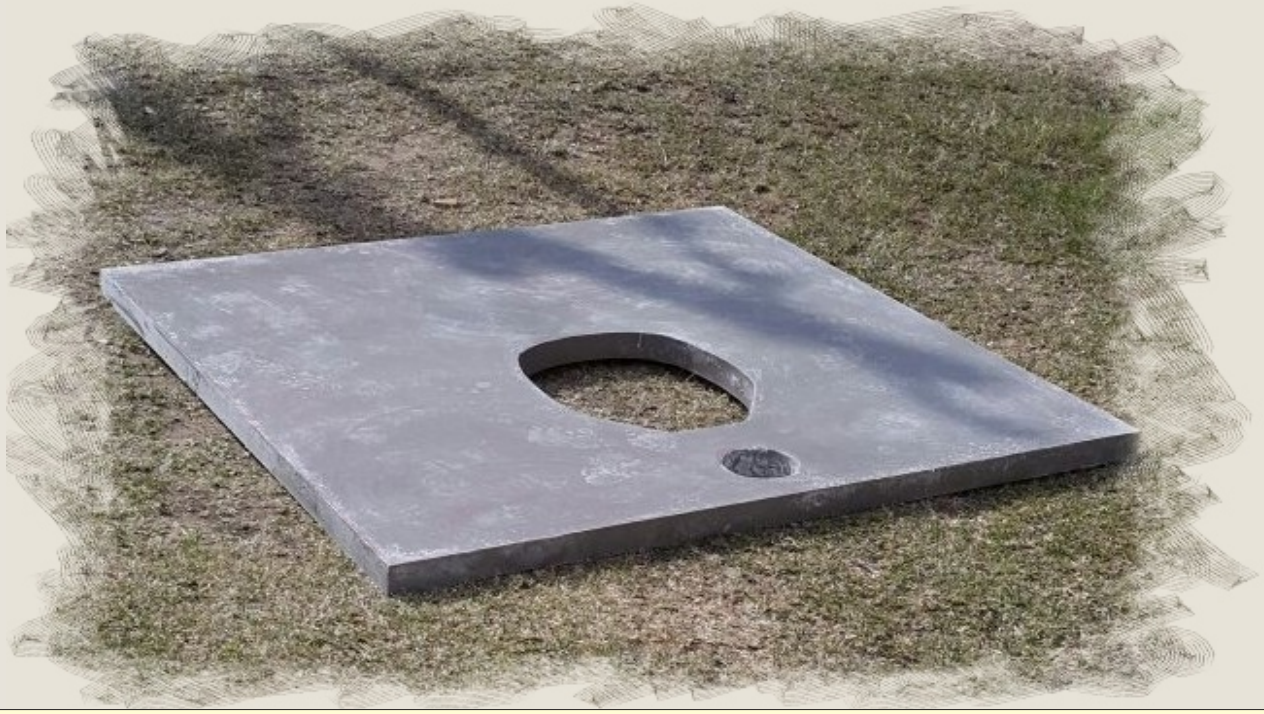
resocrete
Moulding the Future

PIT LATRINE SLAB

LamPlas Polymer Composite Panel
resoloo VIP Pit Latrine Slab

Falling under the **moducrete** range of products, the **LamPlas** polymer composite panel has a wide range of applications, from building cladding, to trench covers, from stand alone VIP pit latrine structures to low-cost housing walls and roofs.

With an extremely high abrasion resistance rating (rated for steel wheeled traffic) and with high resistance to acids and alkali environments, the panels can be manufacture to withstand extremely high loading of up to 20 tons per square meter with very high impact resistance.



Product Specifications

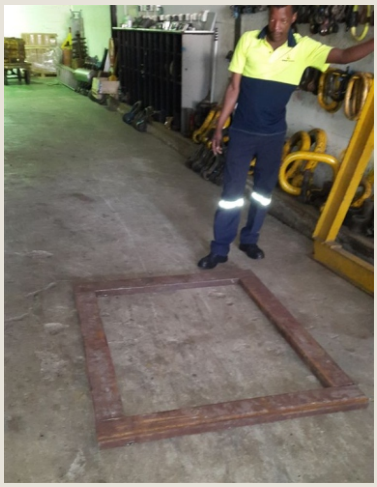
In trying to satisfy Africa's ever increasing housing and sanitation shortage, **resocrete** was tasked with solving a number of unique and fundamental problems, i.e:

- 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
- Slow production due to curing time of concrete and bricks

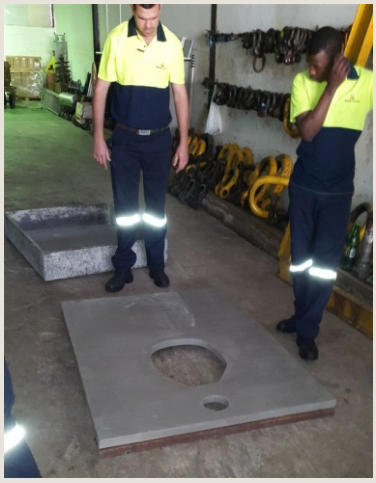
The solution, the **resoloo** VIP Pit Latrine Slab, a lightweight resin **LamPlas** polymer composite slab which can take a far greater load compared to concrete and is not as brittle / fragile:

- Low transport costs due to light weight - one twelfth the weight of concrete slabs
- No breakages due to inherently superior strength compared to concrete
- Quick erection due to light weight of product
- Good hygene due to non-pourous material

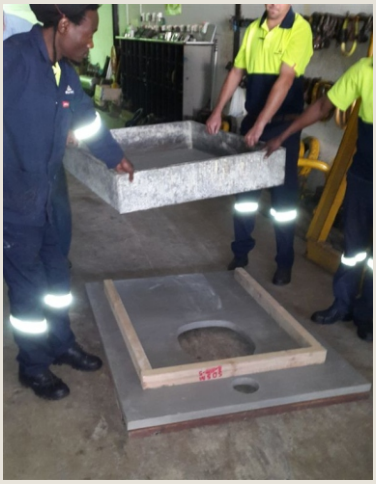
Designed and independently tested to take structures of up to 1.5 tons, the **resoloo LamPlas** VIP Pit Latrine Slab, a Glass Fibre Reinforced Polymer Concrete, is available in either a 30mm or 50mm thickness, and various permutations of length and width, including circular, to fit any pit liner or structure.



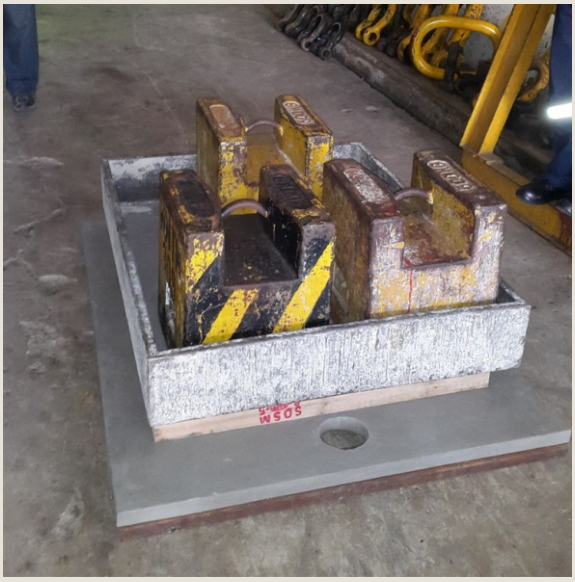
FRAMEWORK TO SIMULATE
PIT LINER STRUCTURE



SLAB PLACED OVER
"PIT LINER"



FRAMEWORK TO SIMULATE
TOP STRUCTURE PLACED ON SLAB



"TOP STRUCTURE" LOADED TO 1.5 TONS

General Features

. Up to 10 times the flexural strength of Vibrated Cement Concrete
. High resistance to acids and alkalis
. Resistant to biological attack
. Far lighter than aluminium, steel and fibre cement products
. Outstanding weathering and UV resistance
. Available in various size options to suit any application

General Material properties

. Load Bearing (unreinforced)	20 tons per sqm
. Specific Gravity	444 kg / m3
- Water absorbtion	0.05% by weight
. Operating temoperature	to 80 C
- C&CI abrasion resistance rating	Class 1a
- Surface penetration during C&CI abrasion test	nil micron

Visit our web-site at www.resocrete.co.za

Independant Load test

Water Weights
(NATAL) c.c.
CK 9707411/23
Tel: 031-572 4940

No. B 18655

ENGINEERS REPORT

Customer: RESOCRETE
Contact: PAUL
Type:
Scope of Work: INSPECTION & LOADTEST

Date:
Quotation No.:
O/No.:
Invoice No.:
Invoice Date.:

1. CARRIED OUT A INSPECTION + LOADTEST ON A LAMPLAS COMPOSITE PIT LATRINE SLAB IT WAS 30 mm THICK AND WITH SIZES 1500 mm x 1200 mm TESTED TO 1500 kg

2. CARRIED OUT A INSPECTION + LOADTEST ON A LAMPLAS COMPOSIT PIT LATRINE SLAB IT WAS 50 mm THICK AND WITH SIZES 1500 x 1500 mm TESTED TO 1500 kg

UNITS SATISFACTORY FOR USE.

ENGINEER	DATE	SITE HRS	OVERTIME HRS	TRAVELLING HRS	KM'S SITE
N. GRAHAM S. WATTERS	11-08-14				

Star Stationers & Printers - 031 569 1061

TEST WEIGHT : 3 x 500 kg SOLID WEIGHTS.
LOAD CELL :
OTHER :

Engineers Signature :
Customers Name : P JAMIESON Signature :

Lifting Equipment Engineers Association