

decocrete

STREET FURNITURE



Moulding the Future

MANHOLE RING / COVER 600 HD

SPECIALIZED POLYMER CONCRETE STREET FURNITURE

resocrete products are fabricated from a range of specialized composites made from chemically bonded, mineral filled, polymeric materials which once moulded, produce a product which is both durable and versatile, and can be cast into almost endless shapes and forms to meet the most diverse of design needs.

Falling into the generic classification of a Polymer Concrete, each composite is specifically formulated to meet the unique and exacting standards and requirements of that particular product, be it structural strength, abrasive resistance, aesthetic value or any one of the many other differing factors which makes that **resocrete** product a market leader in its field.

decocrete products are aimed at satisfying the demand for a highly durable Street Furniture Product which could achieve a fine level of detail in the casting process, allowing one to personalize the product through the inclusion of specialized trade marks, motifs or logos. Because of the nature of the product, this also allows the customer the option to choose a variety of shapes and surface textures.

Faced with ever increasing incidents of theft of steel manhole covers, and the danger this poses to our motorists and motorways, the **decocrete** manhole rings and covers have no scrap value, greatly reducing the incidents of theft, and are incredibly durable and meet all industry requirements of load bearing and impact resistance.

Technical Specification And Advantages Of Polymer Concrete Manhole Rings And Covers

FEATURES:

- More than fifteen times the flexural strength of Vibrated Cement Concrete
- High resistance to acids, alkalis and other corrosive substances
- Resistant to biological attack
- 0% water absorption
- High acoustic and flexibility absorption properties
- Superior thermal properties and stability
- Outstanding weathering and UV resistance
- Rated for steel wheel traffic in terms of C&I Abrasion Testing carried out



GENERAL MATERIAL PROPERTIES

- Compressive strength 120 Mpa
- Flexural strength 47 Mpa
- Shear strength 30 Mpa
- Modulus of elasticity 22,000 Mpa
- Specific gravity 1,82 kg/m³
- Operating temperature up to 90 C
- Rated for steel wheel traffic in terms of C&I Abrasion Testing carried out
- Surface Penetration during abrasion test nil mm

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

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PROPERTIES AND SPECIFICATIONS

PRODUCT NAME	- MANHOLE RING / COVER 600 HD
APPLICATION	- SEWER / STORM WATER / SERVICES
CLASS	- HEAVY DUTY
LID DIAMETER	- 600mm
LID FLANGE DEPTH	- 42mm
LID WEIGHT	- 39 KG
RING OUTER DIMS	- 680mm X 680mm
RING FLANGE DEPTH	- 80mm
RING WEIGHT	- 35 KG
COLOUR	- TO CUSTOMERS SPEC
LID DETAILING	- TO CUSTOMER SPEC

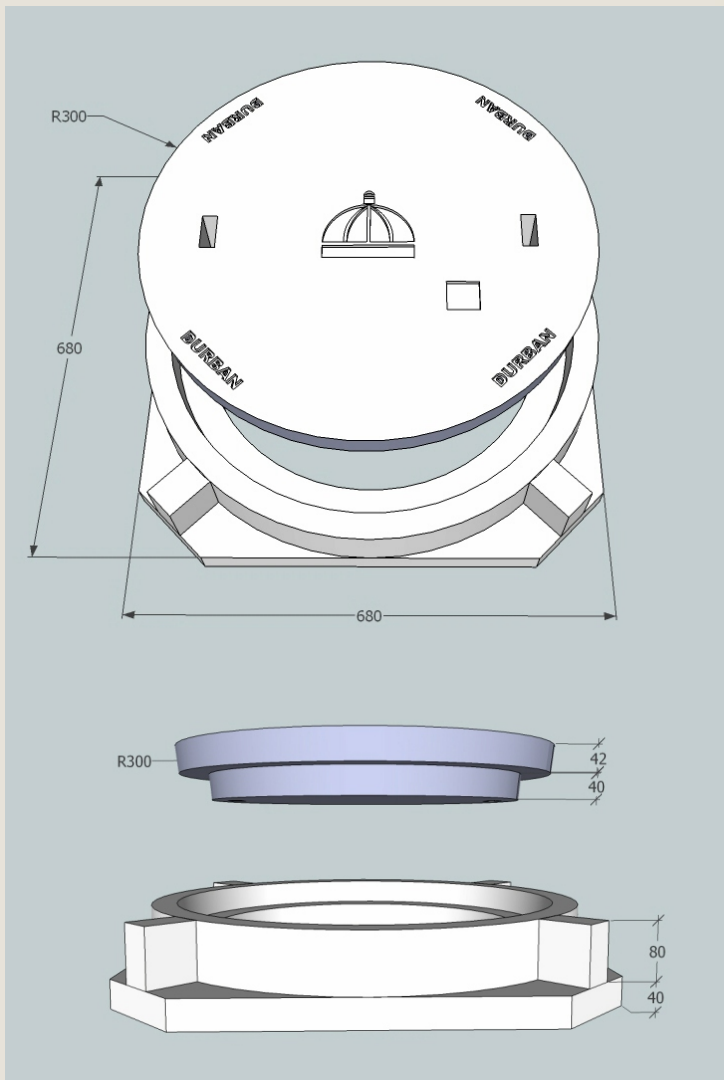
ABRASION TEST

Products are regularly tested for abrasion resistance using the C & CI Abrasion Testing Method.

This recognised industry standard comprises the use of a vertical machine mounted 60 mm diameter wire cup brush.

An aggregate is then fed through the hollow shaft of the brush onto the surface of the tile which combined with water, produces a highly abrasive slurry, which is then ground into the surface of the test substrate.

This test is carried out for a period of 10 minutes and on all tests measured to date, the depth of abraded penetration measured was nil microns, giving it a *Class 1a certification*



INDEPENDENT LOAD TESTING

Durban Beachfront Phase 3

2012-09-12

Polymer Concrete Manhole Frame & Cover
Site Test using 30t WaterCart

Before Test



Water Cart first Pass



Water Cart Fourth Pass



Lid Test

