

# REINFORCEMENTS



Glass Reinforced Concrete. The Strength of Concrete. The Convenience of Plastic.

Issue 1, 2011

Sydney - Melbourne - Brisbane - Perth

[www.mascotengineering.com.au](http://www.mascotengineering.com.au)

## Welcome

**W**here did 2010 go? Our 90th anniversary year just flew by... the new production plant in Smithfield is pumping plenty of GRC out everyday and the product range keeps growing.

2011 has kicked off with a bang, and I'm excited to announce the opening of our Brisbane warehouse. This has been in the pipeline for a while now, and by the time you read this it will be in full operation.

We'll also be reviving one of our old product ranges this year... though more on this in the next issue.

Both our Perth and Melbourne warehouses are celebrating their third year in 2011 – you'll find some useful information on their growing range of state specific trade waste products in this newsletter.

The focus of this issue is on GRC, the benefits in both the material and the products we manufacture with it.

I hope you find this information useful, and please feel free to let me know of other things you'd like to hear about that Mascot can help you with in coming issues.

**Nick Taylor**

# What is Glass Reinforced Concrete?

**M**ascot Engineering started working with GRC in the early 1980's, one of the first in Australia.

Originally using the more traditional 'spray-up' method, we began developing wet-cast GRC - today we are the largest manufacturer of Glass Reinforced Concrete products in the Southern Hemisphere.

GRC is a composite of concrete and fibreglass technologies.

It has the benefits of both products: the solidity of concrete and the high instantaneous strength of resin fibreglass.

As the fibreglass is through the entire product (not just reinforcing in some

parts), we're able to achieve the strength of traditional steel reinforced concrete with a thinner section.

This means we can significantly reduce the weight of finished products – in some cases up to 1/10th the weight of a comparative product.

Most components are designed to be lifted by one or two people so you don't need to tie up your backhoe, excavator or crane (and operator) for hours just to move product around on site and install.

GRC's absence of steel reinforcement makes it ideal for usage under normally corrosive conditions and it is resistant to chemical attack.



## Mascot GRC Facts:

- 1/10th the weight of traditional concrete
- Can be used wherever concrete is required
- No shattering like polymer concrete
- Easy to handle
- No need to concrete encase or collar
- Engineered for all load ratings – highway etc.
- Cheaper to freight
- Approved for depths of up to 5m
- Easy pipe entries – no need to core drill

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# Heavy Duty...

## Light Weight

**A**nother cracking example of working smarter with Mascot Pits... there are 98 pits on this truck and not a single fragile sticker in site!!

This photo shows almost one hundred 450sq x 800mm deep pits heading out of our Perth warehouse to a site in WA – so not only are they suitable for highway loadings – but they’ve survived the gruelling trip from our manufacturing plant in Sydney.

Mascot Glass Reinforced Concrete pits are strong, durable and won’t be broken when they turn up on site like other ‘lightweight’ materials.

To replicate this load of 98 pits with old fashioned concrete pits, you’d need another 6 or 7 trucks!

So not only are they strong and cheaper to freight – think about the savings on site – Mascot Pits weigh approximately 1/10th the weight of traditional concrete so most can be handled without a crane.



# Gas & Air Tight Infill Covers

**This is where it all began... Gastight Access Cover and Frames have been the backbone of Mascot Engineering since 1920.**

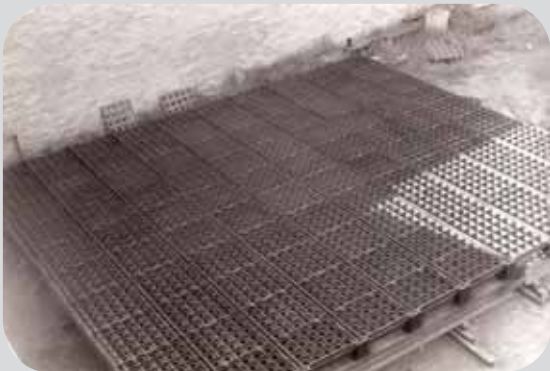
Single, two and three part as well as multi-part covers complete with removable beams are our specialty. We

can supply raw to be in-filled on site or complete in a concrete surround to suit our range of pits or a size to suit you.

Decorative edge covers (brass or stainless steel) are also available for paved or tiled areas ensuring they blend in beautifully.

All products are manufactured to the relevant standards, both in materials as well as load ratings – from Class B through to G.

**Call our technical team on 1300 885 295 to discuss your project.**



**AS 3996 Table of Load Classification**

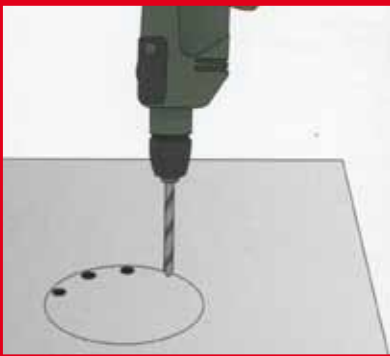
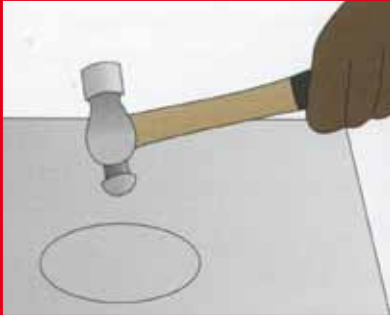
<b>Load Class A</b> 10kN Extra Light Duty	<b>Load Class B</b> 30kN Light Duty	<b>Load Class C</b> 150kN Medium Duty	<b>Load Class D</b> 210kN Heavy Duty	<b>Load Class E</b> 400kN Extra Heavy Duty	<b>Load Class F</b> 800kN Extra Heavy Duty	<b>Load Class G</b> 900kN Extra Heavy Duty



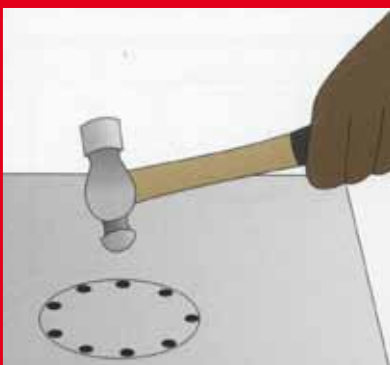
# Conduit entries have never been so easy

GR Concrete pits don't have a knockout, leaving you to choose where the entries are to go as well as the size and number of entries on each side.

There's no need to 'stitch' drill. Simply mark out where the entry is to be made and starting in the centre, softly tap the pit with a ball pein hammer.

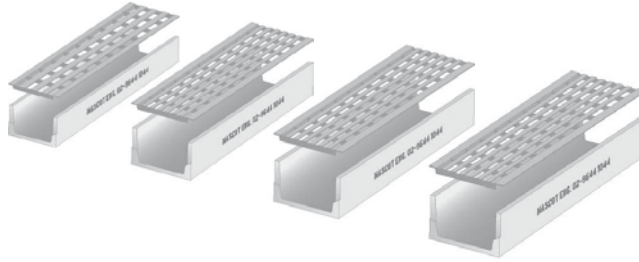


Alternatively, for larger entries (150mm), once you've marked out the hole required, use a masonry drill to drill at 50mm centres. Holes can also be formed using a grinder with masonry disc.



# DriveDrain Channel

Commercial - Industrial - Residential



**T**he GRC DriveDrain is lightweight for easy installation, though suitable for heavy traffic loads.

The metre length channel simply interlocks together and is available with Galvanised Mild Steel Grates as standard, though we can manufacture Cast Iron and Stainless Steel to suit your needs.

'DriveDrain is available in 100mm, 150mm, 200mm and 250mm with more sizes to follow!'



# GRC Channel System – The Choice for Coles

**Our DD trench and channel system is ideal for all situations. In fact, it's so good and so versatile, Coles put it at the top of its shopping list.**

Simple and easy to install with grates that shopping trolley wheels won't get stuck in, yet still capable of taking delivery trucks without breaking the budget.

The range is still expanding with the 250mm and 300mm now available with a range of grates.

**For more technical information and pricing, contact the sales team on 1300 885 295.**



# Adjustable Risers? no worries!

We understand that things don't always go to plan. Have you ever needed an odd size riser - something like 138mm, or 424mm? With our exclusive Glass Reinforced Concrete Risers, anything is possible.



# The Mascot Story...

**E**stablished in 1920, Mascot Engineering Group is one of Australia's most recognised names for Cast Iron Access Covers and Grates & Frames and for being the largest manufacturer of Glass Reinforced Concrete (GRC) in the Southern Hemisphere.

A family owned company, Mascot Engineering began as an Iron Foundry, and has continually evolved our product range to produce the right design for plumbers, electricians, builders, consultants and architects.

With over 90 years experience in supplying the building industry both locally and overseas, and with offices and distributors throughout Australia, the Mascot Engineering team is proud of the company's solid reputation.

We can absolutely guarantee clients that our products are quality made, competitively priced and that our team can give you expert, up-to-date, professional standard technical advice combined with efficient, friendly service.



Products you can trust, from the company with over 90 years experience.

## Access Issues? No Problem with GRC

**S**urely you want to save some money on your next grease trap installation... with Mascot GRC you can.

Not only do we have a huge range of approved trade waste products, but we have crane trucks on call to give you a quick and simple solution.

They're also ideal for when site access is a little tricky as seen here with the bobcat.

Mascot Grease Arrestors are made from Glass Reinforced Concrete, approximately 1/10th the weight of traditional concrete.



The main benefits for you are a significant reduction in installation costs along with big savings in freight costs.

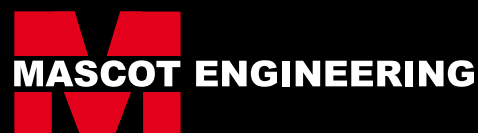
These benefits alone make our grease products the most cost effective on the market.



With gastight covers to suit all load Ratings, we've covered all the bases.

For more information on this and other Trade Waste products, visit our website – [www.mascotengineering.com.au](http://www.mascotengineering.com.au)

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