

# INSTALLATION, PRODUCT CARE & WARRANTY – FOR GRC PANELS

Satu Bumi Cityscape panels are built to be strong, attractive, and last for decades. However, to get the intended result, there are a few simple things that should be taken into consideration. Therefore, the intention of this information sheet is to highlight these issues to Satu Bumi's customers so that they are not overlooked in the overall project planning processes.

## ■ Pre-installation considerations

### **a. Shop Drawings Stage**

A good GRC panel installation starts at the design stage. If GRC panels are designed to take into consideration the known issues relating to how and where the panels are to be installed, you can avoid a whole range of issues that could turn the installation into a problem. Therefore, Satu Bumi works with its customers at shop drawings stage to address these issues.

### **b. Transporting onto site**

GRC products are generally referred to as "light weight" because they can be made relatively thin (and therefore light) due to the strength provided by their glass fibre reinforcement, not because they are light in weight. Therefore, the actual weight of the panels should be taken into consideration when deciding on the appropriate lifting into-position equipment required for the panels when they are in their packed state.

## ■ Installation considerations

### **a. Moving panels into position**

GRC panels are most likely to get damaged when they are being moved into position. Therefore: -

- Follow the installation and stacking sticker labels on panel packaging to avoid damage.  
Do not remove the packaging within which the panels were transported to site until the panels are ready to be installed.
- Use additional padding on the hard surfaces of any pallet jack, furniture dolly or padded hand truck that may come into direct contact with
- the panels when transporting them into position, e.g., cardboard or blankets.

## **b. Adding holes to GRC panels**

If holes need to be made in GRC panels post manufacture, diamond tipped drills must be used to create holes in the GRC panels. Hammer drills should not be used under any circumstances on GRC panels because they will damage the structure of the panels and weaken them around the area of the hole. GRC is not the same as cast concrete in structure. Therefore, even though a hammer drill may be appropriate for drilling holes in cast concrete it does not mean that the same process is acceptable when drilling holes in GRC panels.

When the holes you are drilling are in a GRC planter you will be penetrating its internal waterproofing membrane and its external sealant. Therefore, it is important that you re-seal both the inside and the outside of the planter after drilling any holes.

## **Product Care**

Satu Bumi's GRC panels require minimal maintenance and are designed to last for decades when correctly installed. They can be cleaned with a damp cloth and soap-based cleaning products, but abrasive cleaning products should not be used, and highpressure water hoses are not recommended.

## **Warranty**

Satu Bumi GRC panels are manufactured to exacting international standards in compliance with the "Specification for the Manufacture, Curing & Testing of Glassfibre Reinforced Concrete (GRC) Products" produced by the International Glassfibre Reinforced Concrete Association (GRCA) in the UK and come with the following warranty: -

- Satu Bumi warrants every panel that leaves its factory to be structurally sound, in good condition and free of defects.
- Satu Bumi will provide a product replacement should any structural defect under normal usage becomes apparent within a period of four years.
- Satu Bumi panels are not covered under warranty for: -
  - damage from graffiti or any form of vandalism, or staining,
  - fading or modest irregularities in the product finish because they are considered a natural feature and part of the aesthetic appeal of GRC,
  - surface hairline cracks because they are considered common in concrete products.

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