

Abbey Artstone Limited

## **Glass Reinforced Plastic Technical Specification**

### **Composition**

**GRP** doesn't dent, corrode, rot, support infestation or bacteria and has a high strength to weight ratio being several times stronger than mild steel on a weight for weight basis.

### **Tenside Strength**

123 MPa

### **Flextual Strength**

193 MPa this can be increased with the addition of woven reinforcement.

### **Manufacturing Tolerances**

All Abbey Artstone products comply with following tolerances unless otherwise agreed in writing by us. The maximum permitted variation from plane is 0.03% of the maximum dimension of the item of 3mm whichever is the greater. The actual dimensions of individual regular units should conform to the stated dimensions subject to the tolerances below:

<b>Tolerance in MM</b>	<b>Length</b>	<b>Width</b>	<b>Thickness</b>
Up to 600mm	+/-2	+/-2	+/-2
Over 600mm to 1000mm	+/-3	+/-3	+/-3
Over 1000mm to 2500mm	+/-4	+/-4	+/-4
Over 2500mm to 4000mm	+/-5	+/-5	+/-5
Over 4000mm	+/-6	+/-6	+/-6

### **Fire Resistance**

Products can be manufactured to different degrees of fire resistance however unless specified our products are manufacturer to general purpose (GP) Grade.

### **Structural Use**

All GRP Units are non Structural . All fixing must be used in accordance with the drawings provided failure to do so will invalidate any product warranty.

### **Cutting**

GRP should designed in such a way as to avoid any site cutting. Where cutting is required please ensure a clean edge is created and avoid damage to the surface gel coating.

### **Surface Finish**

The colour and texture of the exposed face of the GRC should be agreed between the client/architect and ourselves.

Our stonetek coating if used is guaranteed for 10 years by the coating manufacturer (Details available upon request)

### **Storage**

GRP Units should be treated with care and should handled and stored correctly.

All pallets should be stored on a flat even surface and should never be stacked on top of each others  
GRC components should be stored, handled and transported in such a way that

1. No Part of the component should be over stressed.
2. Bowing or twisting is not induced in the component.
3. No damage is caused to any part of the component, particularly edges and corners.
4. No permemant staining or discoloration is caused by the storage conditions.
5. Individual units should not be stacked face to face without the appropriate packaging/protection material used.
6. Individual units should be supported by timber bearers as supplied within the pallets.
7. It is important that the opened pallets are covered with polythene to prevent ingress of water, dirt and dust.

All pallets should be stored on a flat even surface **C.O.S.H.H.**