
FORMCAL® GLASS FIBER REINFORCED STONE (GFRS)

Product Description

FormCal® Glass Fiber Reinforced Stone (GFRS) is a new generation of stone finishing product incorporating innovative manufacturing techniques that go beyond the original Glass Fiber Reinforced Cement (GFRC) technology. The surface material of FormCal® GFRS is made from a proprietary blend of White or Grey cement, silica sand, fine aggregates, mineral fillers, glass fiber, polymer, UV resistant pigment and other additives. The combination of these materials creates a unique series of surface finishing which includes -

- ◆ Sandstone Series
- ◆ Polished Stone Series
- ◆ Chip-Stone Series
- ◆ Sandy Grey-Tone Series
- ◆ Coloured Stone Series
- ◆ Travertine Stone Series
- ◆ Quarry Stone Series

The manufacturing method of FormCal® GFRS is quite similar to normal GFRC in terms of spraying method, strengthening with glass fibre reinforcement and bracing with galvanised steel sub-frames where necessary. In the case of GFRC products, no surface treatment is necessary as the surface is usually coated with colour paint after installation. However, for all FormCal® GFRS products, an additional surface treatment process such as acid etching, sanding or polishing are required in order to expose the sandstone or aggregate finishing beneath. The GFRS surfaces are normally protected with CLEAR protective coatings such as water repellent impregnator, acrylic or other high performance clear coatings where appropriate.

Applications of FormCal® GFRS

- ◆ Wall Claddings
- ◆ Column Claddings
- ◆ Featured Walls & Panelling
- ◆ Planter Boxes/Decorative Pots
- ◆ Counter Top/Basin Top/Table Top
- ◆ Sitting Benches
- ◆ Garden Furniture
- ◆ Decorative Light Balls/Sculptures
- ◆ Threads and Risers

Physical Characteristics

- ◆ Thickness : Varies from 10mm - 25mm depending on application
- ◆ Weight : 28kg/m² @ 12mm Thick
- ◆ Density : 2,300kg/m³
- ◆ Combustibility : Non-combustible
- ◆ Water Resistant : Yes
- ◆ Fungus Resistant : Yes
- ◆ Termite Resistant : Yes
- ◆ Flexural Strength : 15.5 - 21.5 MPa (ASTM C947-99)
- ◆ Compressive Strength : 36.2 - 43.5 MPa (ASTM C140-07a)
- ◆ Impact Resistance : 10 - 15 KJ/m² (ASTM D256)

