



Royal Stones

The Trust of Luxurious Look

Manufactures, Suppliers & Services



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- ❖ ARCHES
- ❖ BRACKETS
- ❖ COLUMNS & CAPITALS
- ❖ SCREEN / JALI
- ❖ BANDS & CARVED PANELS
- ❖ WALL CLADDINGS
- ❖ PLANTERS / LANDSCAPES
- ❖ BALUSTERS & RAILINGS
- ❖ MOULDINGS & CORNICES
- ❖ DECORATIVE MURALS
- ❖ FINIS



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GFRC – GLASSFIBRE REINFORCED CONCRETE
FRP- FIBER REINFORCED PLASTIC
& PRE – FAB PRODUCTS



HIGHLY DURABLE & ECO-FRIENDLY

ARCHITECTURAL EXTERIOR CLADDING



INTRODUCTION OF GRC

Glass fiber Reinforced Concrete (GRC) is one of the most versatile building materials available to architects and engineers.

Developed in the twentieth century, GRC has been making a significant contribution to the economics, technology, and Aesthetics of modern construction worldwide for over 40 years.

Glass fibers reinforced concrete is a composite material made of cement, fine aggregates, water, chemical, admixtures and alkali resistance glass fibers, which can be engineered to suit a wide range of applications.

GRC is very versatile and can be suitably molded into wide variety of complex shapes and profiles.

GRC is also most suitable for seismic regions as GRC has tendency to bend and not crack under seismic pressure.

The design and manufacture of GRC products is covered by international standards, Which have been developed in Europe, America, Asia and Australia. GRC is manufactured in over 100 countries.



KEY FEATURES

- GRC product are easy to handle and fast to erect
- GRC is easy molded to reproduce shapes, details and textures.
- GRC can be cast into fine details design of thin cladding elements.
- GRC can be colored with pigments, paints and natural stone facing.
- GRC offers designers unrivalled flexibility.
- GRC dose not suffer from corrosion & environmentally friendly.
- GRC is durable against extreme weather conditions.
- GRC offers a wide variety of shapes and surface.

GRC – CONSTRUCTION INDUSTRY

ADVANTAGES

Light weight

High Strength

High Impact Resistance

Durable

Choice of color / Texture

Easy Fixing

No steel reinforcement

No Health Risk

BENEFITS

Faster installation

Significant savings in superstructure and foundation

Allows greater lengths, reduced number of supports and thin section

Hard and dense surface offers resistance to graffiti.

Minimizes breakages during transportation and erection.

Needs low maintenance never rots or corrodes

Various surface finishes and shades such as plain or sand stone, Striped granite, oak finish, stonewall and acid wash can be obtained.

Avoids all problems of wet fixed cladding. Can be drying fixed with stainless steel / M.S. fixtures.

So, no electromagnetic interference with signaling cables.,

AR glass fibers is irrespirable unlike asbestos fiber.

1. GRC Cladding – can be plain, textured, curved or with bands

2. Ornamental / Architectural Components :

- ❖ Arches
- ❖ Bands
- ❖ Brackets
- ❖ Balustrades
- ❖ Cornice
- ❖ Columns, Capitals and bases
- ❖ Domes
- ❖ Fins and Parapets
- ❖ Partitions
- ❖ Window surroundings
- ❖ Zharokhas

3. Landscaping and Garden Furniture :

- ❖ Landscape elements such as planters / flower pots
- ❖ Garden furniture's
- ❖ Lamps posts
- ❖ Bollards, Signs, Statues and Sculptures.

4. Technical / Civil Engineering Application:

(a) Noise Barriers

The weight per unit of GRC or its surface mass, stiffeners provides a property of noise insulation at lower frequencies. Typical 10mm thick GRC having surface mass 20 kg / M2 will have an average Sound reduction of about 30 decibel.

(b) GRC Replacing RCC

Long but lightweight elements, which greatly reduces the load on the building can be made.

WHY ONLY ROYAL STONES GRC ?

Is a company run by professionals having technical hands on experience of almost 6 years in manufacturing of GRC & FRP Products in India & Overseas and execution of projects in the field of building & construction industry, Factories industrial setups etc.

In house self-monitored capabilities for Pop, Clay work, Wood work, Pattern Making, Mould/ Die Making, Moulding, Casting Painting, Finishing etc.

Committed to use only standard raw materials from reputed & renowned suppliers/manufacturers of the world with recommended specifications and ratios by using well calibrated measuring/ weighing instruments.

Written Service commitment after execution of project in case of need.

TYPICAL PROPERTIES OF GRC (at 28 days)

PROPERTY	UNIT	MACHINE SPRAY	VIBRATION CAST
Glass fibers (AR)	(WT. %)	2.5 to 5 depending upon component of GRC	3
Flexural Strength	Mpa	6 - 11	4 - 7
Compressive Strength	Mpa	35 - 65	40 - 60
Impact Strength	(Kj / m ²)	7 - 20	10 - 15

GRC MATERIAL PROPERTIES

Thickness	- 10 to 15mm (Depending upon article)
Wt. / Sq.Ft.	- 2.5 to 4.0 kg (Depending upon article)
Dry Density	- 1.8 to 2.2 T / M ³
Color	Any earthen color (popular colors are white & pink)
Texture	(a) Plan smooth finish, (b) Painted, (c) Acid wash (Stone Finish)

BRACKETS



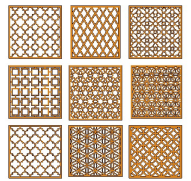
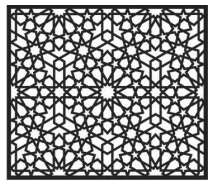
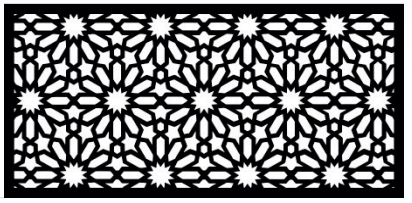
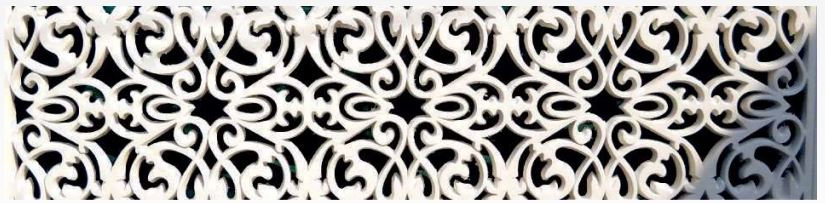
COLUMNS & CAPITALS



MOULDINGS & CORNICES



SCREENS



DECORATIVE MURALS



BANDS & CARVED PANELS



PLANTERS / LANDSCAPES



BALUSTERS & RAILINGS



ARCHES



FINS



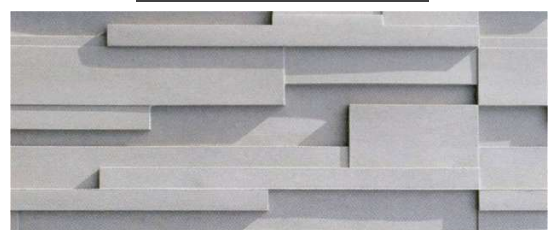
GRC WITH V GROOVE / OPEN JOINT



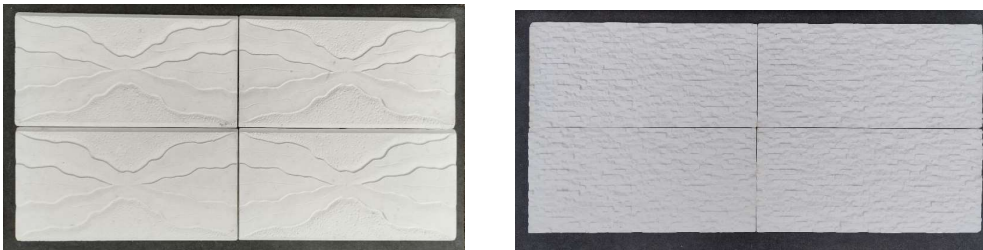
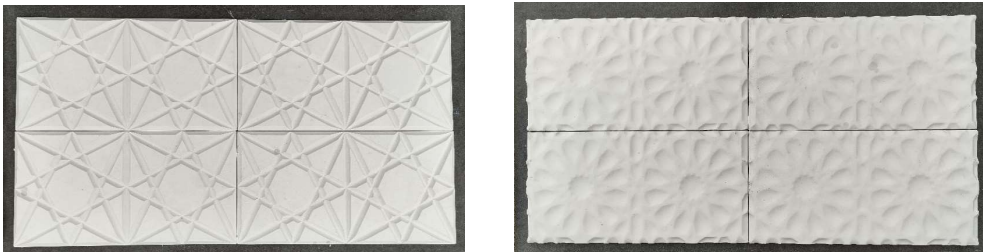
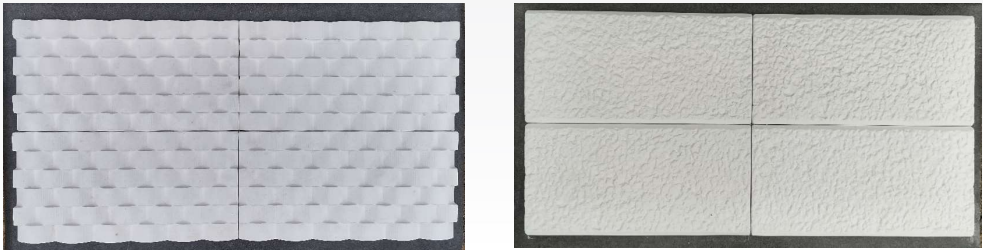
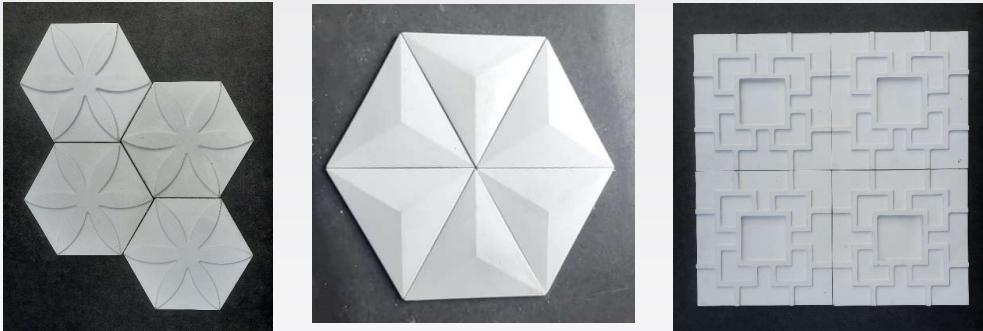
GRC REPLACING RCC



GRC AS A NOISE BARRIER



WALL CLADDING



WALL CLADDING

