



# ROYAL STONES

The trust of Luxurious look

**Manufacturer, Supplier & Service**



@ROYALSTONES.GRC

## GFRC ELEVATION PRODUCT MANUFACTURERS, SUPPLIERS & SERVICES.

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

  
**Royal Stones**  
*The Trust of Luxurious Look !*



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**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 easily 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 does 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 by using Dry fixation method with stainless steel / M.S. fixtures.
- 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
- ❖ Lamp 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 / M<sup>2</sup> 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 ?

It's 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	(Ki / m <sup>2</sup> )	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 <sup>3</sup>
Color	- Any earthen color (popular colors are white & pink)
Texture	- (a) Plan smooth finish, (b) Painted, (c) Acid wash ( Stone Finish)



## MOULDING & CORNICE



## BALUSTRADES & RAILING





## COLUMNS & CAPITALS



## SCREENS





Window Band / Panel /Arches



GRC with V Groove / Open Joint



## WALL CLADDING



## WALL CLADDING

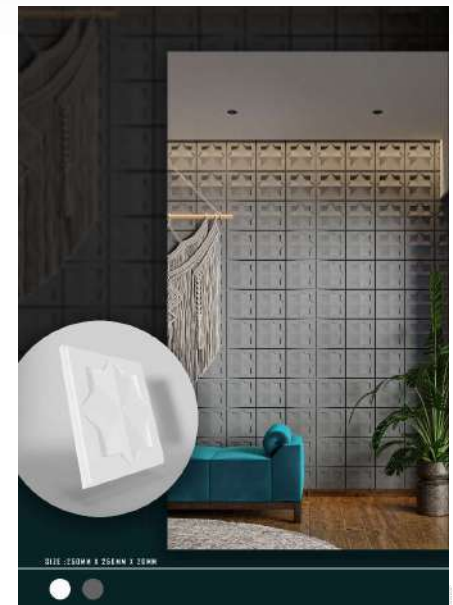
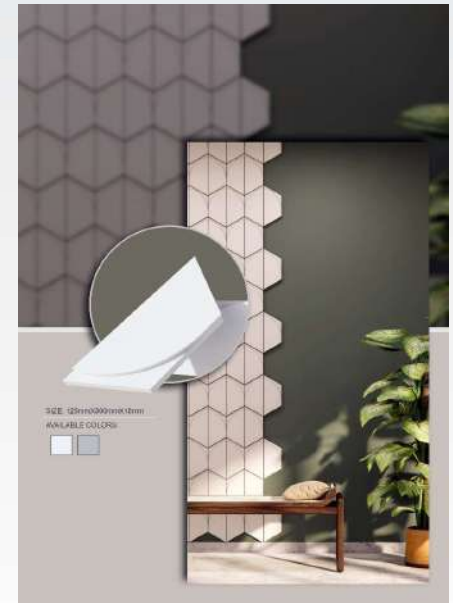




## WALL CLADDING



## WALL CLADDING





## Our Clientele

- ❖ A+I Design, Mumbai.
- ❖ Z Design, Bangalore.
- ❖ Murtaza Hasan & Associates, Indore.
- ❖ Parth Construction, Surat.
- ❖ Hakimi Construction, A'bad/Dahod.
- ❖ idesign group, A'bad.
- ❖ Sphericon infrastructure Pvt Ltd., A'bad/Dahod.
- ❖ Space Age group, Vadodara.
- ❖ Tri. S Associates, Surat.
- ❖ Arch Triangle, Vadodara.
- ❖ Anand Sutterwala & Associates, Vadodara.
- ❖ K ravat & Associates, Dahod.
- ❖ Bansal Associates, Dahod.
- ❖ Mohib Construction, Kukshi.
- ❖ Al Hutaib Construction, Dahod
- ❖ Axis Architects, Dahod
- ❖ Alanwar Construction, Surat