RNC™
INFRAA

Structures For The Future

GRC & FRP Components

www.rncinfraa.com

What is GRC/ GFRC?

Glass Reinforced Concrete (GRC), also referred to as Glass Fiber Reinforced Concrete (GFRC) and Fiberglass Reinforced Concrete (FRC). Since its introduction, GRC has become extremely popular as versatile building materials among the Architect and Design industry.

Why GRC/ GFRC?

- For over 40 years, GRC has contributed significantly to technology and aesthetics of modern construciton.
- GRC is a composite material made of cement, fine aggregates, water, chemical admixtures and alkali resistant (AR) glass fibres, which can be engineered to suit a wide range of applications.
- GRC is also most suitable for seismic regions as GRC tends to bend and not crack under seismic pressure.
- The design and manufacture of GRC products are covered by international standards, which have been developed in Europe, America, Asia and Australia. GRC is manufactured in over 100 countries.

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KEY FEATURES

01

GRC can be cast into fine details.

02

GRC offers designers unrivalled flexibility.

03

GRC mouldings & features are easy to handle and fast to erect.

04

GRC does not suffer from corrosion

05

GRC is durable against extreme weather conditions.

06

GRC is easily molded to reproduce shapes, details and textures.

07

GRC can be coloured with pigments, paints & natural stone facings.

08

GRC offers a wide variety of shapes and surface finishes

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THE PROCESS

- Mould making as per client's CAD designs from Silicon Rubber or FRP materials.
- Sample making for client's approval for shape, finishes and sizes.
- Manufacture from mixture of white cement, grey cement, silica sand and 3 to 5% AR grade imported chopped glass fibre.
- Developing smooth, profiled, historic arts, sand finish and designed texture by use of moulds.
- Difficult forms are possible in GRC moulding easily.

Exterior Cladding

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ADVANTAGES OF GRC

- RNC INFRAA provides Turnkey solutions with optimal satisfaction in terms of valuing clients investment.
- GRC is a replacement of heavy stone and RCC casting.
- GRC material can reduce weight compared to concrete cast or natural stone elements.
- GRC can make versatile architectural design moulds, impact resistant articles, decorative element transformation and enhancement of structure elevations.
- GRC is available in natural stone colours like, Snow White, Jaipuri Red & Dholpur Yellow tones. GRC can be painted with any colour or pigments after installation by client.
- Diversity in designs and textures can develop without limitations as per consultant or client's requirement to full fill their dreams.
- Lightweight GRC is easily shiftable and can be installed at high rise buildings.
- GRC products are value addition concept with low maintenance expenditure materials in new construction era.

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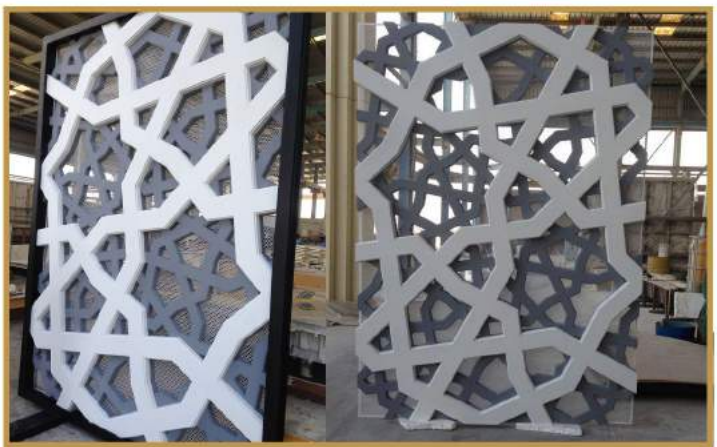
GRC PRODUCTS

Facade Panels

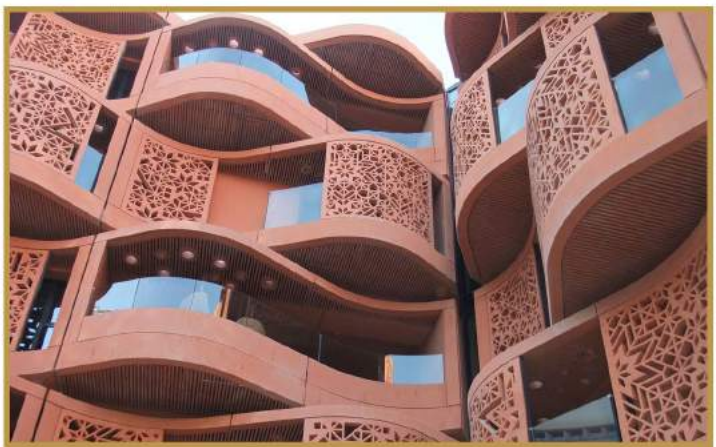
Architectural Articles

Grills

Duct Pipe Covers



Louvers



Wall Claddings

GRC PRODUCTS

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Wall Plaster Finish Panels

Partition Panels

Architectural Columns

Pillars

Cornices

Ceilings

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GRC PRODUCTS

Jharokha

Gazebo

USAGE OF GRC

- Government Infrastructure Buildings
- Hospitals
- Schools
- Public Amenities
- Parks & Resorts
- Irrigation Construction Work
- Solar Park Working Infrastructure
- Administrative Buildings
- Housing Colonies & Buildings
- Commercial Complexes
- Shopping Malls
- Amusement Parks
- Individual Bungalows Schemes
- Metro Rail Project Buildings

PROJECTS

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Jhalawar (Rajasthan)

Manilaxmi Tirth (Tarapur)

Nimanal Palace (Vadodara)

Godly palace (Mehsana)

Ramanuj Mansion (Kota)

Vintage Villa (Vadodara)

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PROJECTS

MPSA (Bhopal)

Devbhoomi (Surat)

AIIMS

Faizanul Quran English Medium School

What is FRP?

Fibreglass Reinforced Plastic (FRP) also known as Glass fibre Reinforced Polymer (GRP) is a composite material made with glass fibres and thermoset polymer matrices. Vinylester and epoxy are the most commonly used thermoset polymers in manufacturing of FRP.

Why FRP?

- FRP is chemically anti-corrosive / resistant to a huge range of chemicals – acidic, alkalis, inorganic & organic chemicals.
- Life of FRP is more than wood, MS, GI and Aluminium. Also, FRP is light in weight from all the mentioned materials.
- FRP has lower installation and maintenance cost allowing for a lower life cycle cost.
- Fibre-reinforced plastic has greater flexural strength than timber and pound-for-pound is often stronger than steel and aluminium in the lengthwise direction.

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KEY FEATURES

01
Anti-Corrosive

02
Durable

03
Light Weight

04
Fire Retardent

05
Completely Maintainance Free

06
Non-Conductor of Heat and Electricity

07
UV Resistant

08
Permanent Colour

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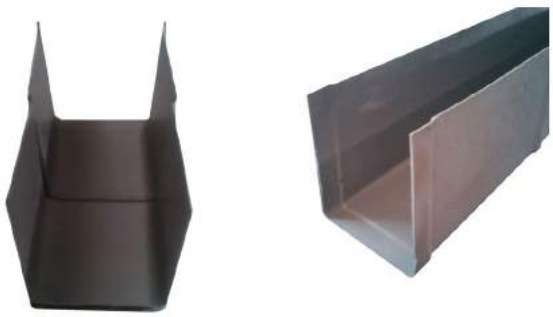
FRP PRODUCTS

Roof Tile

Roofing Sheet



Rainwater Gutter

Base Plate

FRP Toilets

Fencing

FRP PRODUCTS

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Facade

Duct Covering

Grills

Decorative Elements

Planter

Pillers

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OTHER PRODUCTS

Modular Office

Workmen Colony

Premium Site Offices

Modular Restaurants

PUF Panel Cabins

Modular Farm Houses

FRP PRODUCTS

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Ceilings

Columns

Monuments

Statues

Baluster

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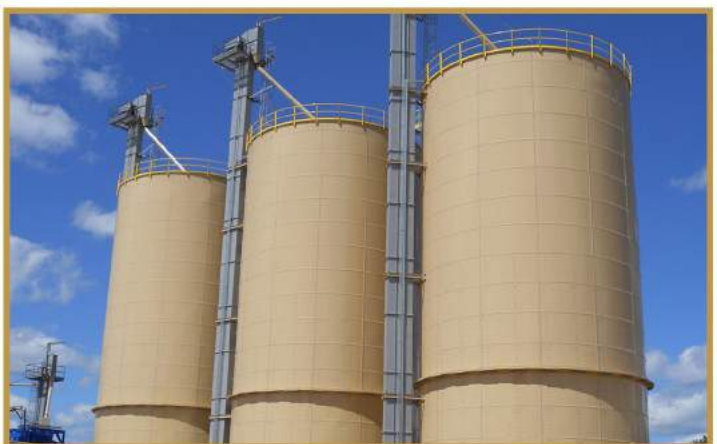
OTHER PRODUCTS

FRAC Tanks

Vaccume Tanks



Silo Storage Tanks

Mud Tanks

Acid-HCL Tanks

Ground Handling Equipments

OTHER PRODUCTS

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Prefab Housing

Modular Toilet

Retail Kiosks

Security Cabins

PEB Structures

Building Extensions

CLIENTELE

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SANGHI CEMENT
Turning Dreams into Concrete Reality

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THANK YOU

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