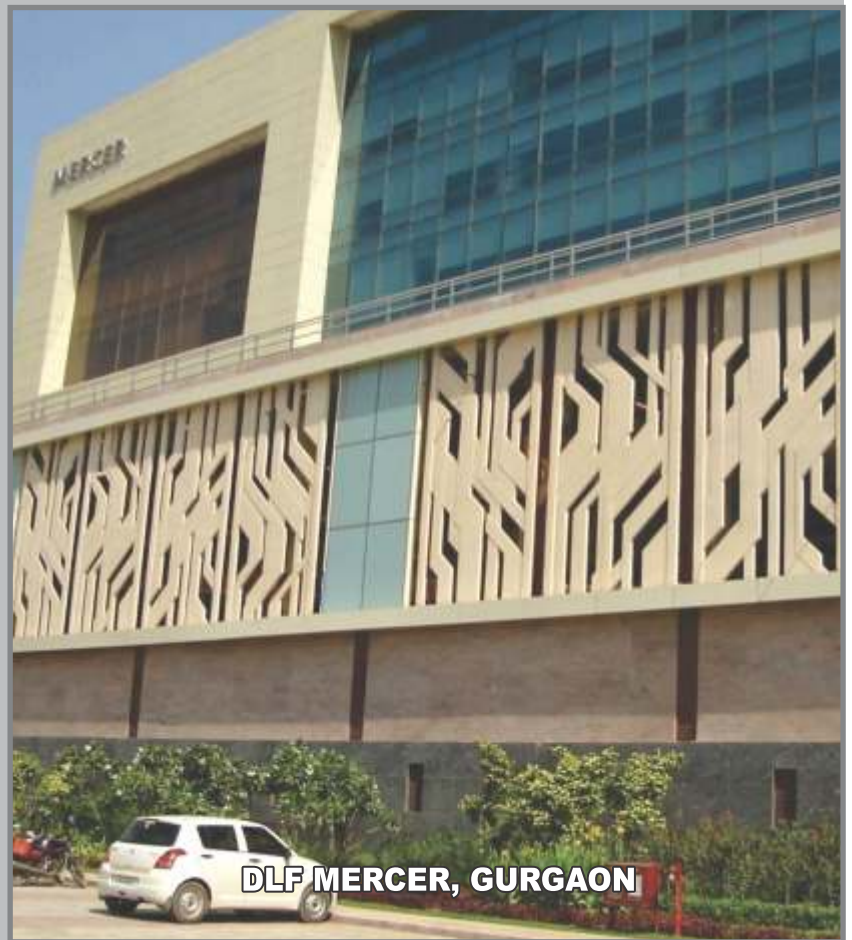




ALTAIR, COLOMBO



ITC GRAND BHARAT, GURGAON



DLF MERCER, GURGAON



MAHESH GRC

MAHESH PREFAB PVT. LTD.

Specialist in : GFRC (Glass Fibre Reinforced Concrete), FRP/GFRG & Easy Walls ®

In Technical Collaboration with



**Fibre Technologies
International Ltd., U.K.**

Company Profile



ITC GRAND CHOLA, CHENNAI

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Mahesh Prefab Pvt. Ltd. – Profile

We are the part of PPG group having an existence of over four decades. The group's turnover is Rs. 350 Million and is headquartered at the millennium city of Gurgaon. We are into multiple business verticals that include Paints, Home Furnishings and GFRC/FRP & GFRG (Glass Fiber Reinforced Concrete/Fiber Reinforced Polymers & Glass Fiber Reinforced Gypsum) & Precast Hollow Core Concrete Walls (Brand Name - EASYWALLS®). Our flagship companies are Mahesh Prefab Pvt Ltd (GFRC/FRP & GRG), MM Creations (Home Furnishings), & Super Aquacem (India) Pvt Ltd (Paints).

We are a part of a conglomerate that is into multiple business verticals, serving clients since last four decades. Serving out of our corporate office in Gurgaon, we are into, among others, Paints, Home Furnishings, Rentals & Leasing, Glass Fibre Reinforced Concrete (GFRC), FRP (Fibre Reinforced Polymers), GFRG (Glass Fibre Reinforced Gypsum) & Precast Hollow Core Concrete Walls (Brand Name - EASYWALLS®). The group has a physical presence in Delhi, Gurgaon & Manesar (Haryana), Ghaziabad (UP), Khushkhera (Rajasthan), Rudrapur (Uttarakhand) and Ludhiana (Punjab). The driving forces behind the group are Mr. Dinesh Kumar Gaiind and Mr. Manmohan Gaiind.



Mr. DINESH KUMAR GAIIND
(MANAGING DIRECTOR)

The Mission Statement

Mahesh Prefab Pvt Ltd, a pioneer in GRC/GFRC, is a leader in providing value-added services to our customers by creating a successful partnership with them through quality construction, technical and management services. The way to do so is to deliver high-quality, cost-effective projects on schedule by employing and supporting motivated, flexible, and focused teams. We value the importance of our relationships and will continue to remain fair and true in our dealings with all employees, clients, vendors, and partners. Our clients count on our dependability, our drive, and our integrity. We take great pride in our accomplishments and build on them every day. Our pledge is to establish lasting relationships with our customers by exceeding their expectations and gaining their trust through exceptional performance by every member of our team. We want to ensure the longevity of our company through repeat and referral business achieved by customer satisfaction in all areas including timeliness, attention to detail and service-minded attitudes. We wish to perform for our customers the highest level of quality services at fair and market competitive prices. Our motto is to maintain the highest levels of professionalism, integrity, honesty and fairness in our relationships with our suppliers, subcontractors, professional associates and customers.



Mr. MANMOHAN GAIIND
(DIRECTOR)



INTRODUCTION & INFRASTRUCTURE

Mahesh Prefab Pvt. Ltd. (MPPL) earlier known as Mahesh GRC has been serving its Architects & Clients need for last many years. MPPL is manufacturing GFRG (Glass fibre reinforced concrete) in technical collaboration with Fibre Technologies U.K. in its most ultra modern plant located at Khuskhera, near Bhiwadi (Rajasthan) with a built up area of 75,000 Sq. Ft. & A Huge production capacity of 2 Lac Sq. Ft. per month of GFRG & Allied Products. MPPL Undertakes works of GFRG including its supply and installation & has a huge resource of trained manpower for safe and quality execution of GFRG erection at site. MPPL has already executed many prestigious projects successfully with leading National & International Architects in almost all parts of the country.

MPPL recently ventured into Precast Hollow Core Concrete Walls (EASYWALLS®) and has a full-fledged and operational Precast Hollow Core Concrete Walls manufacturing plant, Acotec from Elematic, Finland. This plant manufactures Precast Hollow Core Concrete Walls of varying thickness of – 75 mm, 100 mm and 120 mm, having width of 600 mm and length 2500-3300 mm long. MPPL has huge production capacity of making 15,000-20,000 Sq. Mtr. per month.

GFRC MANUFACTURING PROCESS



Pattern of screens in Gypsum



Screen Mould in FRP



GFRC Casting with Premix Method



GFRC Casting with Spray Process



Demoulding



Final finish

Technical Specifications

THE FOLLOWING ARE BROADLY THE MAIN INGREDIENTS THAT GO INTO THE MANUFACTURING OF ANY GFRC ELEMENTS, NAMELY:

- | | |
|--|---|
| • Cement Contents (White/Grey) | 50+/-5% |
| • Quartz Fine Silica Sand (Graded and Selected) | 50+/-5% |
| • Alkali Resistant (AR) Glass Fiber (NEG, Japan) / Owens Corning | 3% To 5% |
| • Polymer | 1% To 3% Approx |
| • Plasticizer | 0.50% Approx |
| • Polystyrene | As per Requirement |
| • Mould Material | FRP/Rubber (Reckli Germany/Dura Mould U.K.) |
| • Pigments | Bayer's (Germany) or Equivalent |

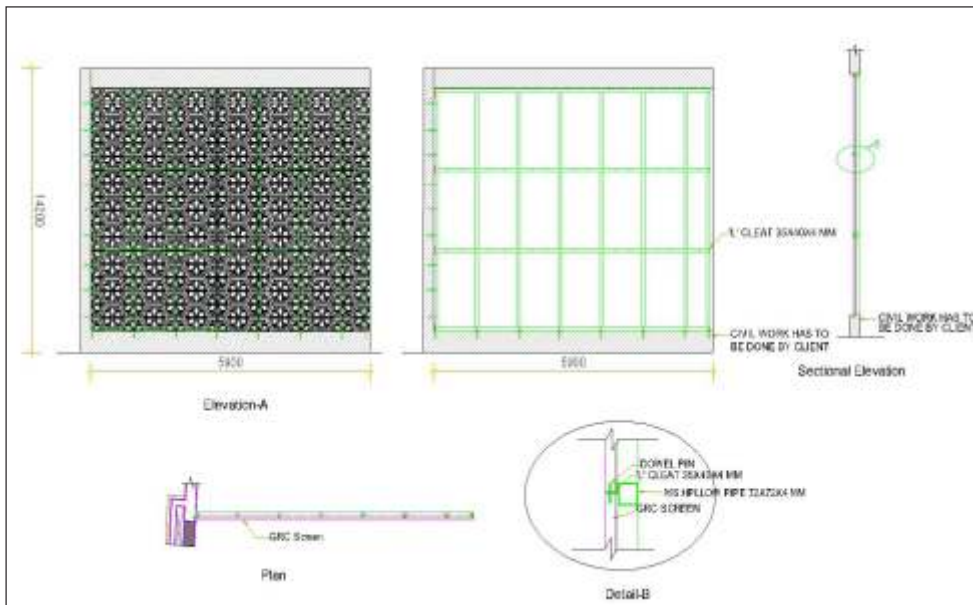
GFRC Material Properties

Thickness	- 10mm to 40mm (or more depending upon size & shape)
Weight	- 25 to 70 kg. per sq. mtr. (or more depending upon size & shape of features.)
Dry Density	- 1.8 to 2.2 T/M ³
Colour	- Any earthen colours
Texture	- Acid Wash / Stone Finish Plain Finish, Paintable/Metallic Finish

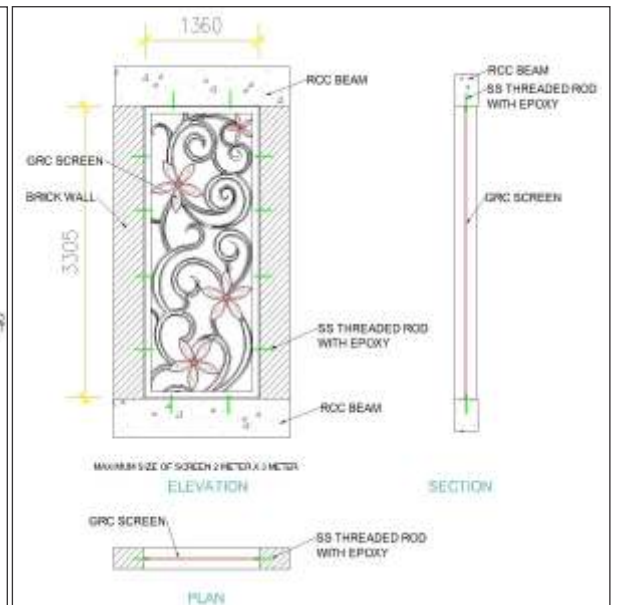
Typical Properties of GFRC

Typical Property	(at 28 days)	
	Result (Machine Spray)	Premix Casting
Glass Fibre (Alkali Resistent)	3% - 5% Depending upon GRC components	2.5% - 3.5%
Tensile Strength	- 6 to 11 Mpa	5 to 8 Mpa
Compressive Strength	- 40 to 65 Mpa	35 to 55 Mpa
Impact Strength	- 7 to 20 Kg/m ²	7 to 15 Kg/m ²
LOP	- 7 to 11 Mpa	
MOR	15 to 25 Mpa	

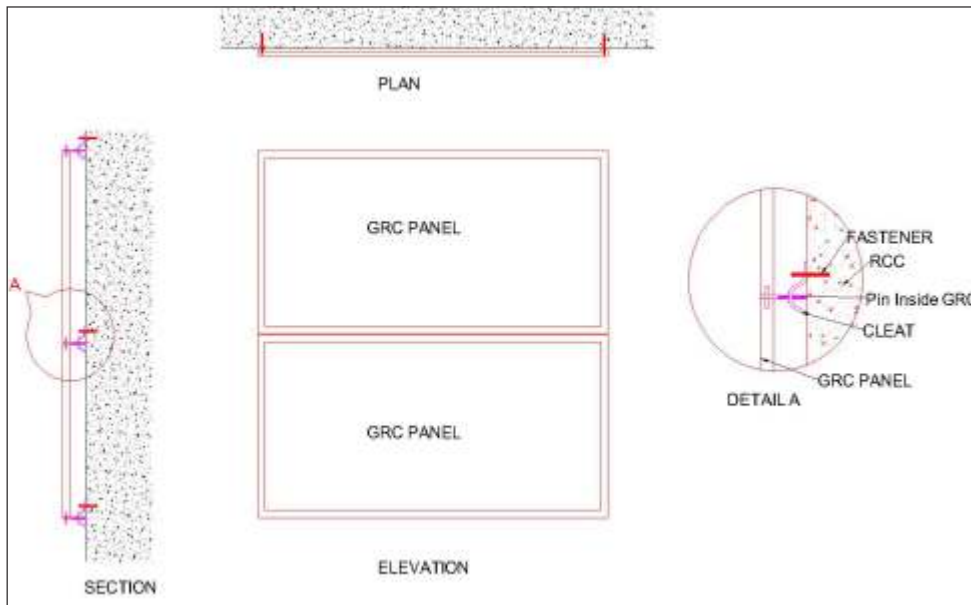
Typical Fixing Detail of GFRG Screens, Cladding Panel, Cornice



GFRG Screens on Steel Structure



GFRG Screens in Opening



GFRG Cladding on RCC



GFRG Cornice on RCC

Installation

Installation of GFRG elements at site is done by MPPL fully trained manpower. GFRG elements are fixed strictly as per the approved shop drawing of fixing using galvanized Cleats, SS threaded rods, galvanized brackets, hilti/Fisher/Wurth fasteners etc. All safety precautions are taken as per site conditions during fixing. Every new site has new challenges and MPPL has successfully taken up many challenging work of fixing of GFRG element in the past and fully equipped to do more in future.



RUDRA - FARM HOUSE, DELHI



PANCHVATI AZADPUR, DELHI

GFRG Elements

SCREENS

CORNICES

CLADDING

DOMES

FINIALS

MURALS

COLOUMNS & CAPITALS

PERGOLAS

PEDESTAL

BALUSTERS

WINDOW/DOOR SURROUNDS

PEDIMENTS

RAILING

LOUVERS & FINS

SIGNAGES

FURNITURE

GFRG in Architecture

In recent years, a shortage of skilled workers combined with the need to produce lighter weight building components has led to significant advancements in the use of prefabricated GFRG elements. Builders worldwide are appreciating the increase in speed of construction that GFRG provides.

GFRG can be moulded in the plant in any shape, form and texture and thus gives freedom in the hand of Architects to create imaginative designs for the beautification of their buildings elevations. GFRG is a substitute for carved stone and is very useful in replacing heavy stone mouldings, cornices etc because it is lighter in weight and is casted in only approx 15 to 20 mm thickness thus reducing the dead weight on structure.



BESTECH PARK VIEW ANANDA, GURGAON



DLF ULTIMA, GURGAON



DLF CREST, GURGAON



SUNWORLD ARISTA, NOIDA

GFRC in Screens

The most commonly used element for beautification are GFRC screens which are widely used in India and are very popular. The screens can be made in any earthen color matching to the stone look or can also be provided in paintable finish. They can be made in minimum 20mm thickness and are normally made 25-30mm thick with border of 40-60mm thickness. Screens with border are normally made in ideal size of 2 mtr x 3 mtr in single piece. They can also be made in repetitive modules for larger openings and can be dry cladded on steel sub structure behind.



SHIROMANI KOLKATA



CORPORATE BUILDING, MANESAR



ITC BUILDING, MANESAR



DALMIYA HOUSE, DELHI

GFRC in Cladding

GFRC is one of the most popular materials used for creative prefabricated architectural cladding. GFRC's ability to be moulded into thin, lightweight panels with a wide variety of shapes, forms and surface finishes has been appreciated by a growing audience of architects and engineers worldwide.

GFRC Cladding has huge advantages compared to ACP cladding like very high life span, low maintenance cost, thermal insulation, fire resistance etc.



HOTEL MATHAN, BANGALORE



HOTEL MARRIOTT, JAIPUR



DLF CLUB, KOLKATA



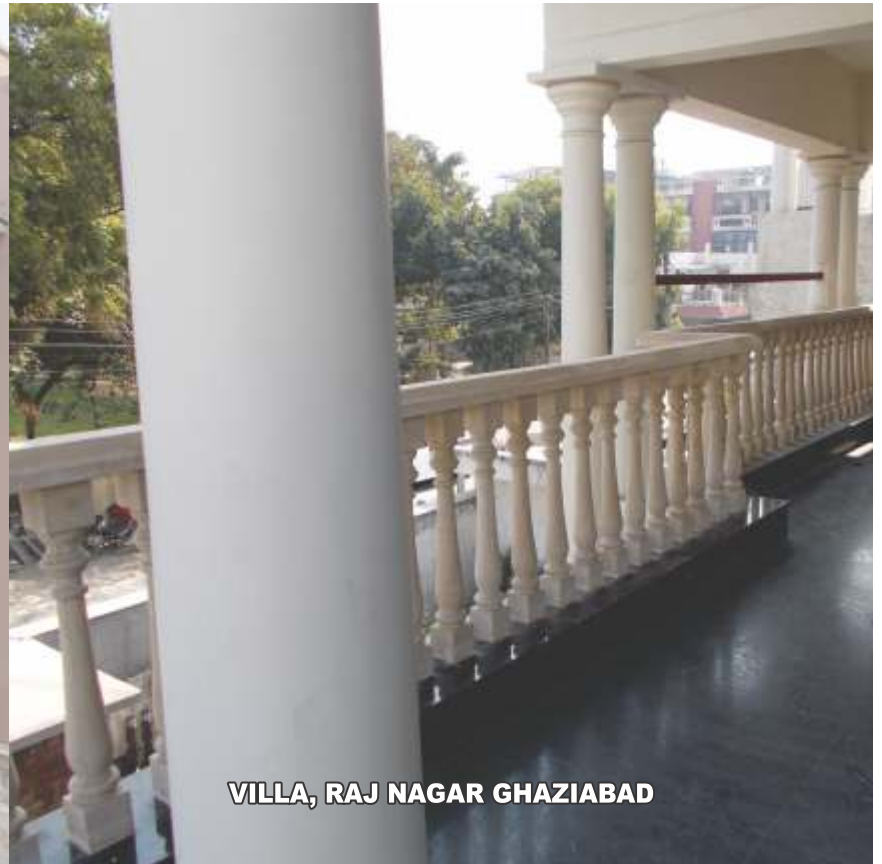
M3M MERLIN, GURGAON

GFRC Louvres/Murals/Finials

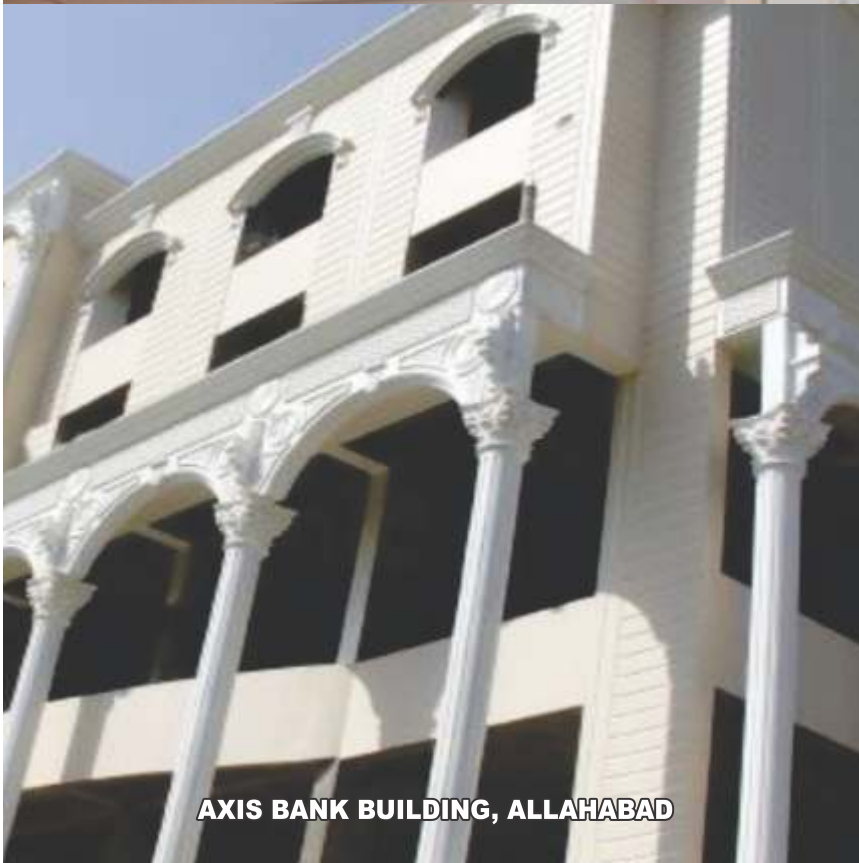
In modern buildings GFRC is extensively used for creating beautiful facades using straight line louvres and fins. They can be made and fixed in various sizes and larger designs. Also murals and finials are used extensively for highlighting the building facades which looks beautiful with night lighting.



DLF CITY CLUB, GURGAON



VILLA, RAJ NAGAR GHAZIABAD



AXIS BANK BUILDING, ALLAHABAD



ELDECO - JALLANDHAR

GFRC Columns/Mouldings/Cornices/Baluster

GFRC is used to produce beautiful architectural mouldings and features. Whilst often cast with thicknesses in excess of 25mm these products remain easy to handle and erect, and permit the architect or engineer an unrivalled freedom for creative design. GFRC does not suffer from corrosion of the reinforcement. GFRC cornices has huge advantages in reducing dead weight on buildings compared to stone and traditional RCC mouldings. They can be made in even larger sizes and profiles with less joints.



DLF ALMEDA, GURGAON



GAUR CASCADE, GHAZIABAD



GOOGLE INDIA, GURGAON

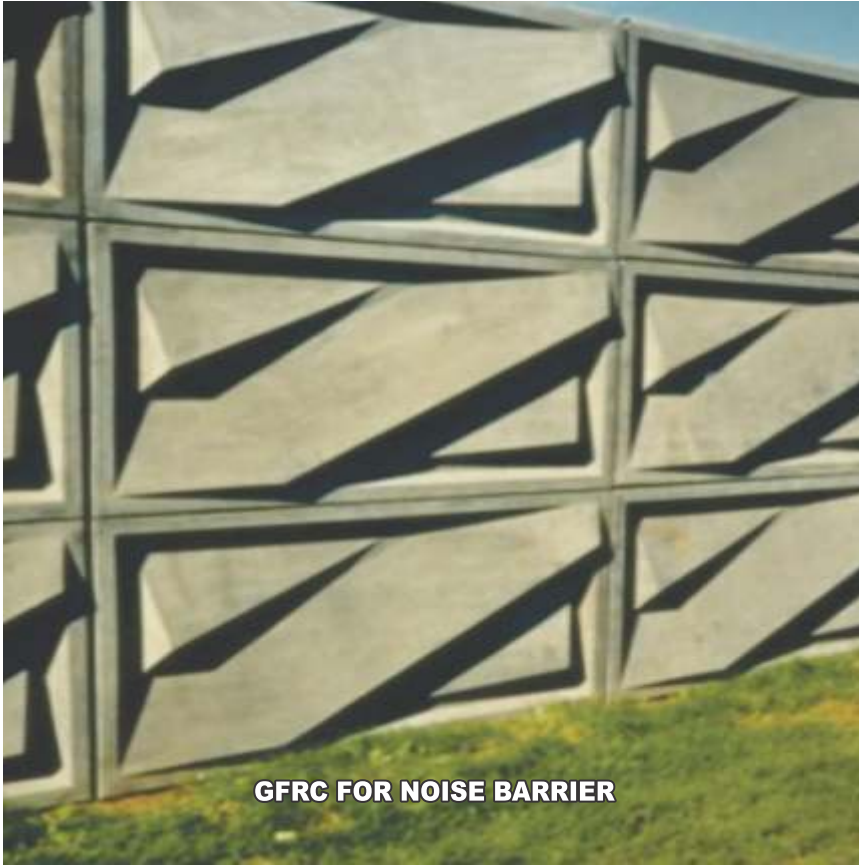


FORTUNE TECHNOBUILD, GURGAON

GFRC in Landscaping

GFRC is a very versatile material for use in landscaping. It is worldwide used for screens and railings, in boundary walls, gazibos, GFRC planters, fountains, water bodies, benches, entrance gate, around swimming pool, murals.

In building projects, leisure facilities, urban renewals and municipal schemes ever-increasing attention is being focused on the built environment. GFRC is playing a major role in seating, planters, kiosks, bollards, signs, statues and fountains, to name but a few, all benefit from being made in GFRC with its ability to make in tailor shape, form and surface finish and to be aesthetically compatible with the chosen environment. GFRC also provides theme park and zoological architects with a medium through which they can turn dreams into reality. Many of the world's largest theme parks and zoos use GFRC to create rockscapes, replica buildings, simulated environments for animals, and much more.



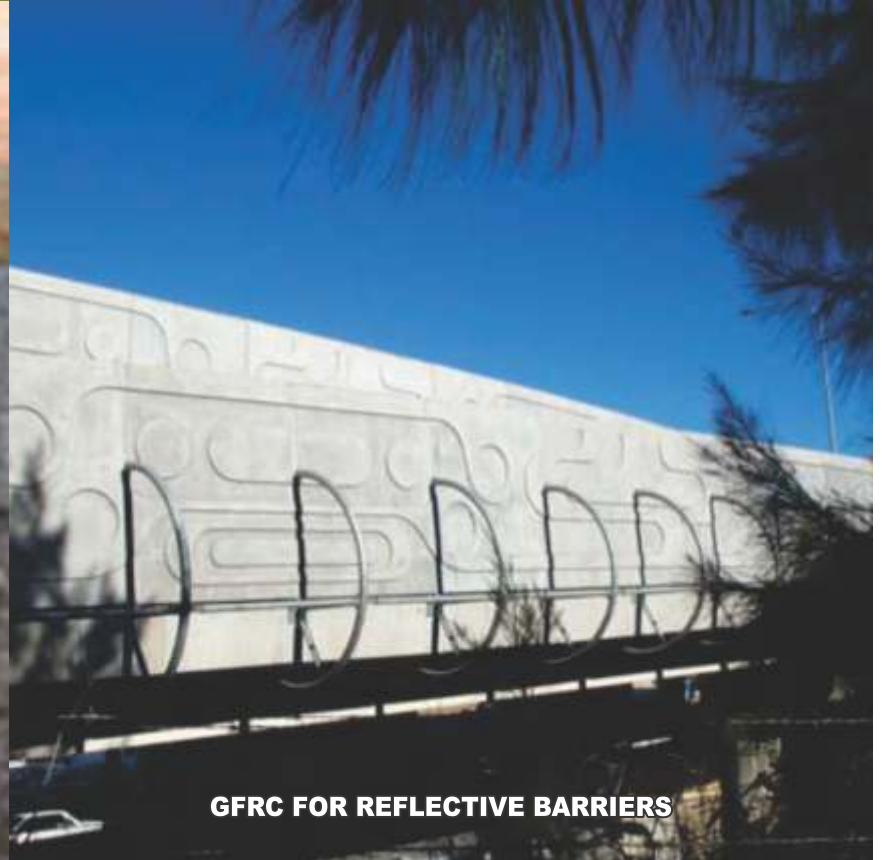
GFRC FOR NOISE BARRIER



GFRC FOR WALL CLADDING



GFRC FOR CABLE MANAGEMENT



GFRC FOR REFLECTIVE BARRIERS

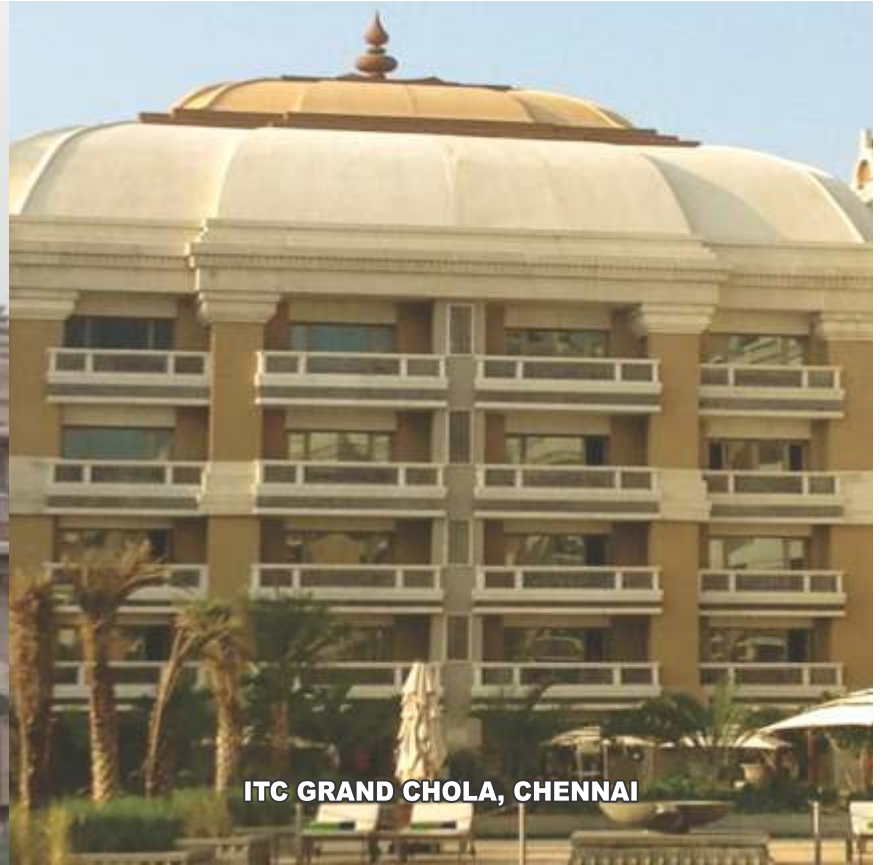
GFRC in Engineering

Compared to traditional concrete, GFRC offers the engineer an unrivalled range of material properties. GFRC is not a single material. Its properties can be engineered to suit each application. For example, for products such as permanent formwork, high short-term strength is required. While for utility and drainage products light weight combined with durability give GFRC a considerable advantage. GFRC used extensively in noise barriers worldwide because of its property of sound absorption and design capability.

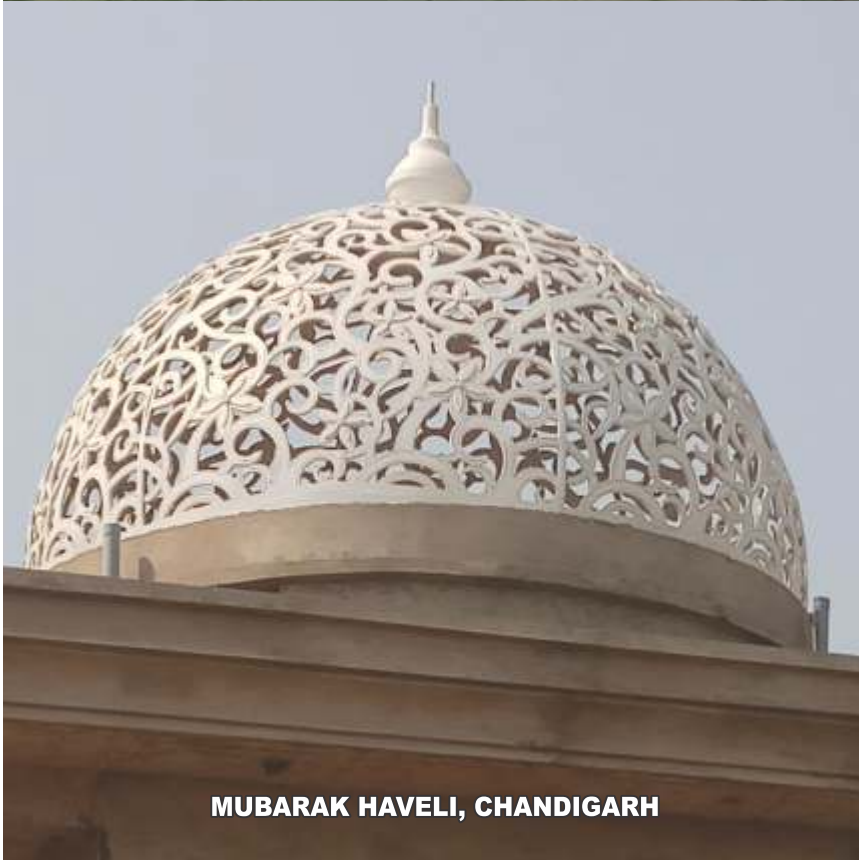
Examples of engineering applications can be found worldwide.



ITC GRAND BHARAT, GURGAON



ITC GRAND CHOLA, CHENNAI



MUBARAK HAVELI, CHANDIGARH



ITC GRAND CHOLA, CHENNAI

GFRC for Domes

GFRC is an ideal material for domes cladding because it can be casted in thin sections and reduces dead weight on the structure provided for the domes. First time in India we have done "insitu" casting of GFRC domes at ITC project Chennai in which the dome size was 30mtrx 30mtrx 12mtr height. They can be made in acid washed, stone finish or paintable finish and can be fixed to a steel structure provided which has to be designed as per individual site requirements. By "insitu" casting of GFRC domes we achieved less joints and better finish.



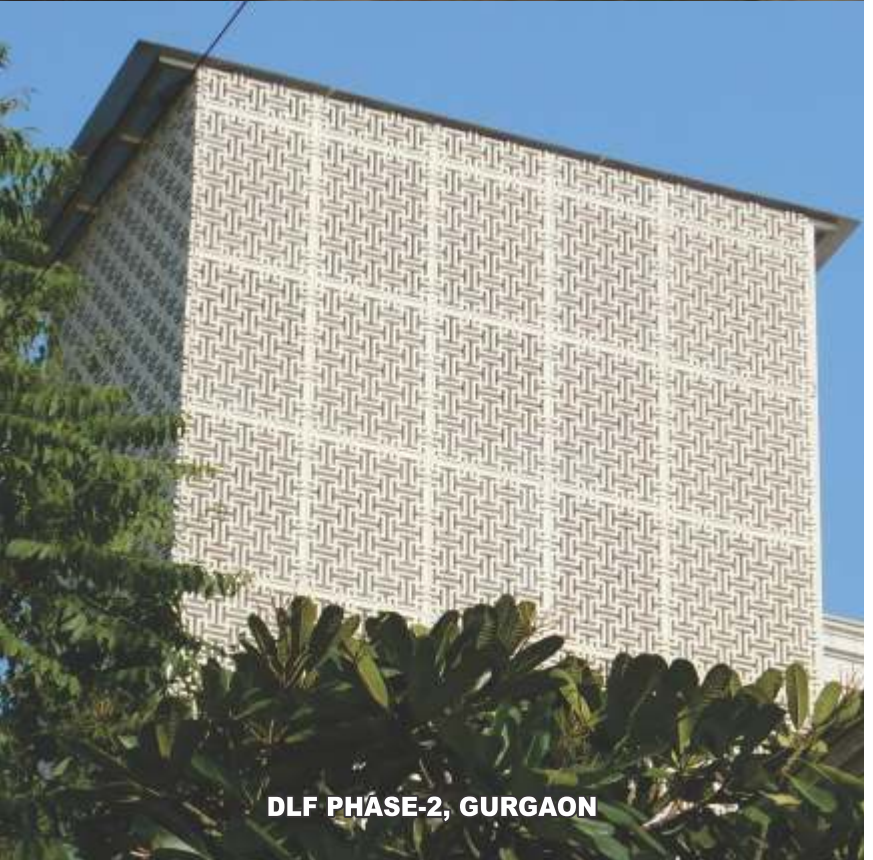
SECTOR-48, NOIDA



KHURANA RESIDENCE, GURGAON



DEFENCE COLONY, DELHI



DLF PHASE-2, GURGAON

GFRC in Residences

GFRC is an ideal material for the beautification of residential facade/elevation.

It can replace all carved stone products which were earlier used like screens, mouldings, railings, ballustrades, cladding, landscaping, decorative murals, planters, Screens are most commonly used in shaft area and as an elevation feature. They can be lighted from behind using LED lights.

GFRC in Residences



COMPLETED PRESTIGIOUS PROJECTS



Project Name : DLF CAMELIAS,
GURGAON
Client Name : DLF limited

GFRG Application : GFRG Screens in Elevation, Nibs
Approximate Area : 1,50,000 Sq. Ft.



Project Name : DLF, SUMMIT
Client Name : DLF limited

GFRG Application : GFRG Screens in Elevation &
Terraces, Cladding, Murals,
Carved Panels, Signages.
Approximate Area : 1,00,000 Sq. Ft.

COMPLETED PRESTIGIOUS PROJECTS



Project Name : DLF MAGNOLIAS,
GURGAON
Client Name : DLF limited

GFR Application : GFR Screens in Elevation,
Waterbodies, Stilt Covering,
Gazebo Screens, Electric
Box Covering, Planters

Approximate Area : 1,10,000 Sq. Ft.



Project Name : THE OBEROI,
GURGAON
Client Name : Orbit Resorts Pvt. Ltd.

GFR Application : GFR Cladding Panels
Approximate Area : 1,00,000 Sq. Ft.

COMPLETED PRESTIGIOUS PROJECTS



Project Name : DLF PARK PLACE,
GURGAON
Client Name : DLF limited

GFRG Application : GFRG Screens in Elevation,
Entrance Gate, Courtyard,
Terrace, Lift Lobby
Approximate Area : 1,00,000 Sq. Ft.



Project Name : ATS ONE HEMLET,
NOIDA
Client Name : ATS Greens Pvt. Ltd.

GFRG Application : GFRG Screens in Elevation,
Entrances, Club, Mouldings
Approximate Area : 1,20,000 Sq. Ft.

GOVERNMENT PROJECTS



AIIMS, NEW DELHI (CPWD)



**CP RAILING
NEW DELHI (NDMC)**



GTB, NARELA, NEW DELHI (PWD)



NDMC, CONNAUGHT PLACE, DELHI

MAYUR VIHAR, NEW DELHI (PWD)



**EAST KIDWAI NAGAR, NEW DELHI
(GKC, NBCC)**



**EAST KIDWAI NAGAR, NEW DELHI
(NCC, NBCC)**



**EAST KIDWAI NAGAR, NEW DELHI
(NKG, NBCC)**



AWAS VIKAS, JAIPUR

OTHER COMPLETED PROJECTS



OTHER COMPLETED PROJECTS



OTHER COMPLETED PROJECTS



STATUE OF UNITY, GUJARAT



UNITY ONE, ROHINI, DELHI



DLF ARLIAS, GURGAON



HOTEL CROWN PLAZA, DELHI



VEGAS, DWARKA, NEW DELHI



HOLY HOCKS, GURGAON

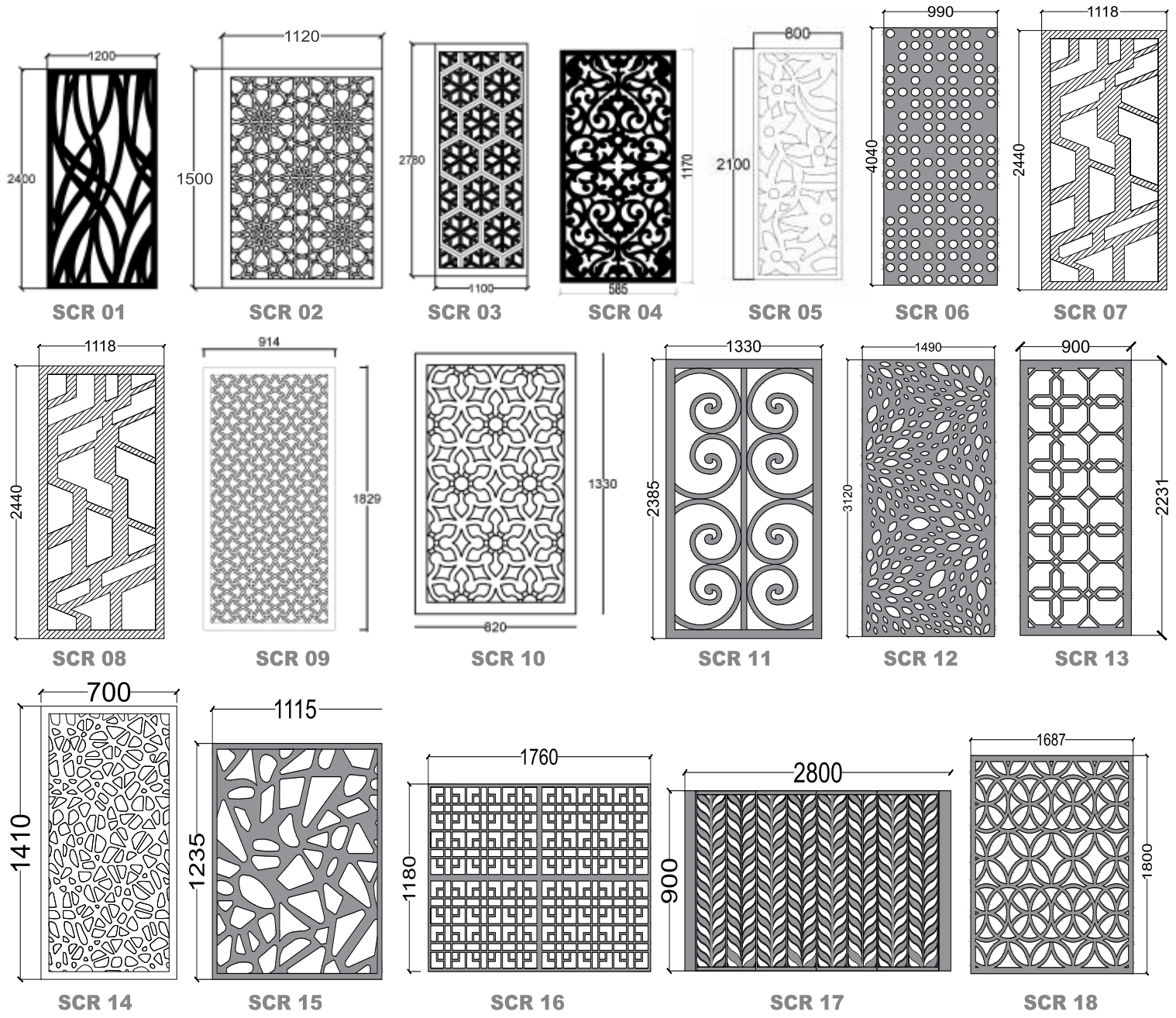
GFRC PLANTERS



FRP PLANTERS



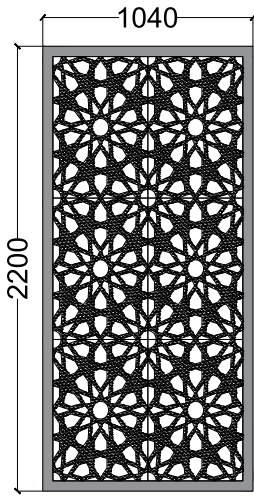
GFRC SCREEN DESIGNS WITH BORDER



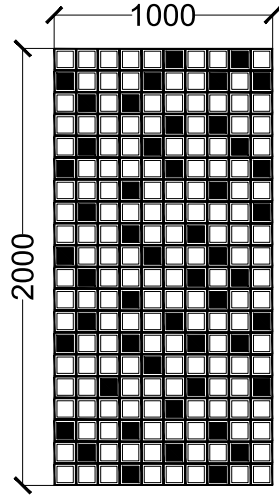
GFRC CLADDING DESIGNS



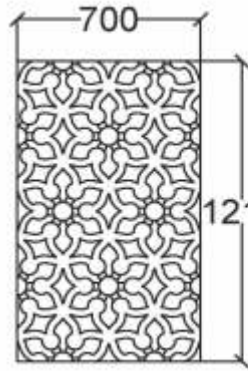
GFRC MODULAR SCREEN DESIGNS



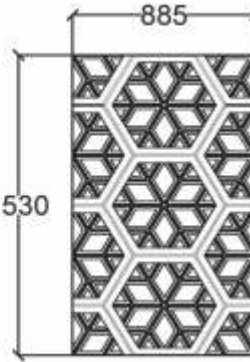
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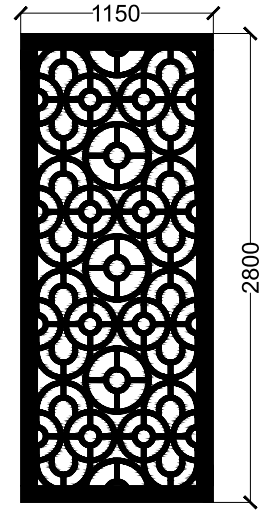
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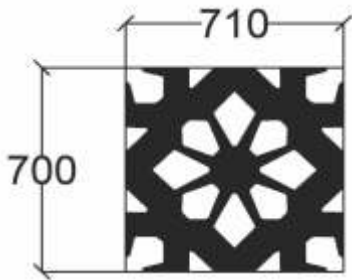
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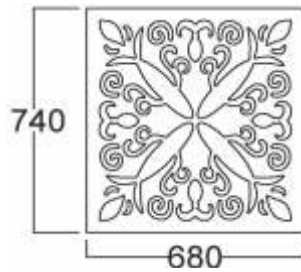
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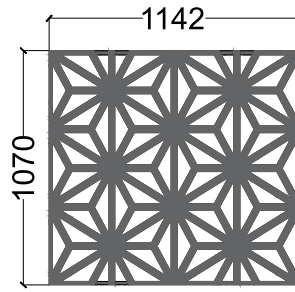
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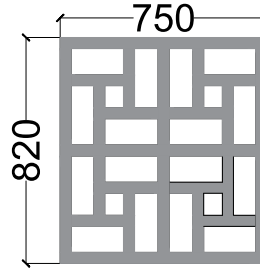
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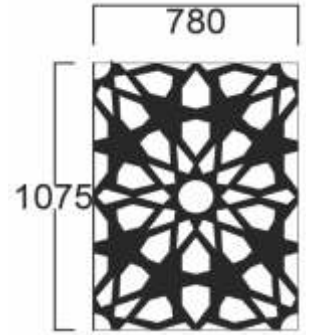
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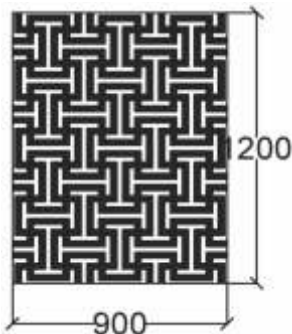
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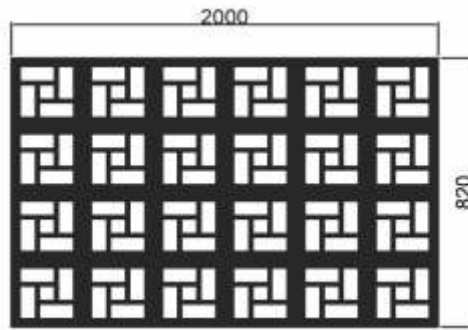
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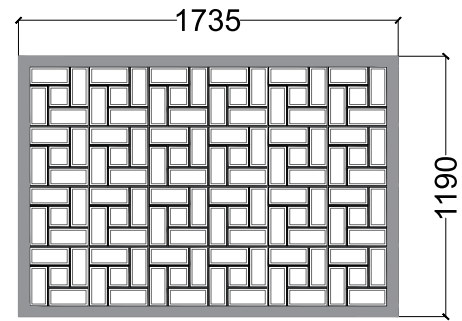
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MSCR 11

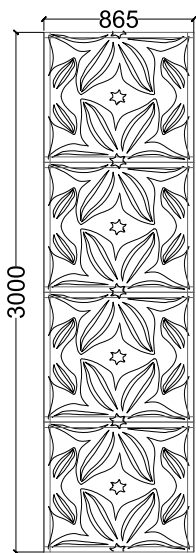


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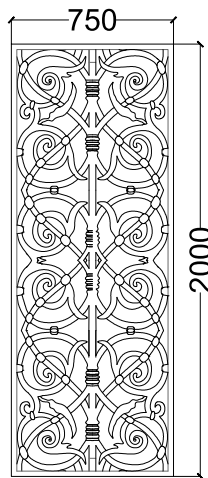


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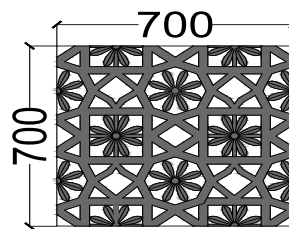
CARVED SCREENS FOR PREMIUM SPACES



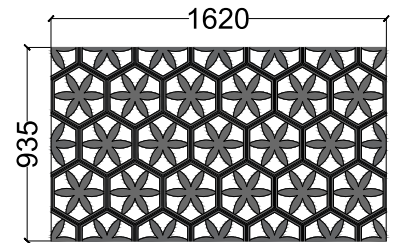
CAR-01



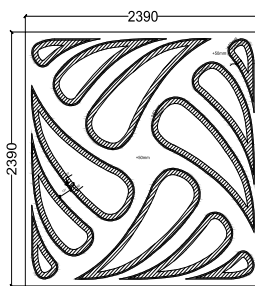
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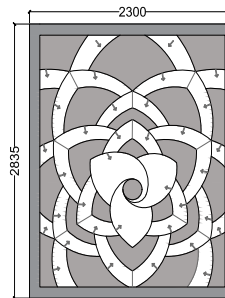
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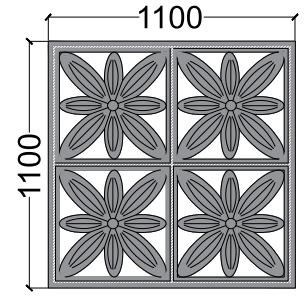
CAR-04



CAR-05



CAR-06



CAR-07



Give Shape to your Imagination

(An ISO Certified 9001:2015)

**Fully Equipped In House Facility
for Complete GFRP Testing**



MAHESH PREFAB PVT. LTD.

Specialist in : GFRP (Glass Fibre Reinforced Concrete), FRP/GFRG & Easy Walls ©

In Technical Collaboration with



**Fibre Technologies
International Ltd., U.K.**

Corporate Office : M M Towers, 8, 9, Udyog Vihar Phase - IV
Gurgaon - 122015

Tel. : 0091-124-4997310, Mob.: 09873908471

E-mail: info@maheshgrc.com

Visit us at : www.maheshgrc.com