



# **DALAL TILES**

CONCRETE REDEFINED

**Architectural Products** 



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# **OUR STORY**

Dalal Tiles is the largest manufacturer and supplier of precast paving products in North India. It was established in 1995 through the vision of Rakesh Dalal, a retired Air Force personnel, who possessed an innate understanding of form, a sharp mind for engineering, a natural curiosity for materials and strong entrepreneurial values. He along with his younger brother, Anil Dalal, who had a deeper understanding of market dynamics, demand, and finances.

Dalal Tiles has grown successfully since its inception and is known for excellence, innovation, meeting customer expectations and building a passionate committed team. Our team of professionals understands the customer needs and fulfill them in the prescribed period and budget, without compromising on quality.

We manufacture all types of precast products using various material which is ultimately used for the architectural purpose. From screens to columns, brackets, terazzo tiles, paving tiles and interlocking pavers, they can provide customized designs for all products.

We follow strict safety and quality control procedures covering the whole process, from detailing stage to handling over and takes pride in maintaining the high-quality reputation. Dalal Tiles is ISO 9000:2008 certified and have IS 15658:2006 license for the flooring products.

Our products are described as planet friendly, innovative and edgy by the customers. So whether it's a residential, commercial or government project, we are happy to help you!

Anil Dalal
Director



### PRODUCTS WE MANUFACTURE

### **SCREENS / JALI**

GRC Screens acts as a curtain against direct sunlight on glass to keep the building cool and also makes the building look aesthetically beautiful. Our exclusive range of GRC Screens is of utmost industry norm and standards. These are broadly admired by the customers for its durability and exotic looks. GRC Screens are tough, light weight and quick to install.



**PANELS / FORMLINERS** 

Our exquisite cladding panel offers a lightweight option instead of stone thus reducing the load on the structure and strengthening the frame of the building. These panels are as strong as any other metal panel and yet they never rust. GRC cladding panels can be easily molded into desired shape. These can be customized as per the requirement of customer.

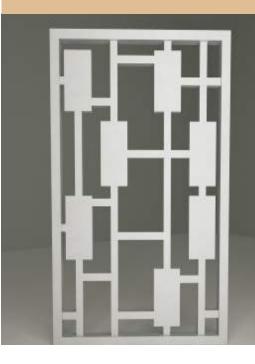
#### **COLUMNS**

Dalal GFRC can manufacture all kind of classical columns as well as customized designs. Columns can enhance the looks of any ordinary building and make it look elegant. Our versatile & easy to install columns are crafted with high strength materials in required shape, styles and finest designs as per customer requirement to embrace the beauty of the building.





Choose from hundreds of cornice designs to accent your building's facade. Available in versatile GFRP and architectural concrete, Cornice provides a better finish to the building. It makes monotonous decor look appealing to eyes. We can provide it in different texture, shape, color and design, depending on the look you are trying to achieve.



#### **DOMES**

Domes are an extraordinary addition to any building. We specialize in coffered, onion, interior domes and cupolas. Domes can make any building look attractive and different. Our unique designs are not just crack proof but highly durable.



#### **BOLLARDS**

Bollards and security planters make streets safe for pedestrians, children and seniors. These are clearly visible barriers for off limit or sensitive areas and can withstand high-impact vehicle collision. Designer concrete Bollards can add security and aesthetic appeal to plantation site. They are durable and offer safe and livable streets.



### **BRACKETS**

Colorful, understated or ornate brackets can be manufactured by our professional artisans. Brackets can instantly add variety and attract attention of the viewers. These superior quality designer Brackets are available in fine finish and intricate design patterns as per customer requirement to enhance the decor of any building.



#### **PLANTERS**

Display your favorite flora in one of our well crafted planters. We have a wide range of planters to enhance the beauty of gardens and parks. With its high impact resistance and longer life, GRC Planters are perfect for outdoor and public places. These are available in different designs, patterns and sizes. Weather proof, long lasting and low maintenance is what makes it the best solution for plant containers.



### PRODUCTS WE MANUFACTURE

#### **BALUSTERS**

We have dozens of balustrade designs for your balcony and staircase. Offered in GFRC & GFRP, Balusters are visually appealing and also serves as safety railing near pools, balcony and drop offs. We will ensure that the Baluster should blend with the interior and exterior of your building. Thus we can customize it as per customer requirement so that your balcony, staircase and pool area looks eye catchy.



#### **INTERLOCKING PAVERS**

We have a variety of Pavers in different finish for landscaping and streetscaping. Our wide range includes hexagonal, milano, zig-zag, collarodo and combi paver in a different colors and dimensions. Interlocking concrete pavers are durable, rigid & sturdy, and can easily withstand every weather condition and heavy loads.





Our premium range of wall cladding tiles is available in brick, stone and wood finish. These designer and patterned wall tiles make your building looks very trendy. These easy to lay tiles give a refreshing and sleek look to your walls and prevents them from frost and moisture. Checkout our unique range of durable, high strength and superior quality wall tiles.



We manufacture designer Paving Tiles in GRC and cement concrete material with different finish. Our high strength Paver Tiles are available in multiple colors and shapes. They are suitable for all domestic purpose and looks attractive when used in color combination.



#### **KERB STONES**

Our concrete Kerb Stones are available in different shapes, colors and dimensions. These are ideal for sidewalks, footpaths & pavements and are widely used to give a finished look to the installation site. Kerb Stones are easy to install and are manufactured from high quality concrete material.



#### **TERRAZZO TILES**

Terrazzo tile is one of the most versatile tiling options available in the market. Bespoke Terrazzo Tiles for interior is the perfect alternative to traditional terrazzo. These are made by mixing marble, granite, quartz, or glass chips into a cement which gives the floor a stunning look.





We manufacture grass pavers that are that eco-friendly and aesthetically beautiful. Grass Pavers are perfect for sites where greenery is required along with the strength of concrete like functional paths, courtyards, driveways and parking areas. These are easy to install are available in various shapes and colors.



#### **GARDEN FURNITURE**

RCC & GRC bench and tables gives a fantastic look to the outdoors. Our Garden furnitures are suitable for all domestic purpose, and are available in different shapes and colors. These can also be customized as per the customer requirement.





## **ARCHITECTURAL PRODUCTS**

# **GFRC**

#### **GLASS FIBER REINFORCED CONCRETE**

GFRC is a type of fiber-reinforced concrete composite of cement, glass fibers, aggregates and polymers. In Europe, developments focused on the need to make to glass itself alkali resistant and at the end of 11940 a suitable glass formulation was identified containing zirconium and optimized to 17% and being alkali resistance this was used as reinforcement in concrete industry thus GFRC was born.

Dalal GFRC is non-combustable, with high flexual strength and have a unique range of colors and textures.

# **GFRP**

#### **GLASS FIBER REINFORCED POLYMER**

First developed in 1930's Glass fiber reinforced plastic has become a style in the building industry. The futuristic house of Disneyland "House of the future" brought a revolution in the market and by 1994 nearly 600 millions pound of composite material was used.

Dalal FRP is a thermoset plastic composite material made from polymer resins, organic fillers, and glass reimplement that achieve a high level of strength and A class fire and smoke rated.

# **GFRG**

#### **GLASS FIBER REINFORCED GYPSUM**

Gypsum is used to make economical and Eco-friendly construction material. Glass fiber is used as reinforcing agent which enhances the strength of the product. By using GFRG product, cement usage is reduced and thereby reducing environmental pollution. Since it's a waste product of fertilizer industry, it is economical.

Dalal GFRG is non-combustable, easy to install and is light in weight as compare to traditional stone or plaster ornament.

### SHAPING POSSIBILITIES THROUGH PEOPLE, PROCESS AND TECHNOLOGY



# **01** ARCHITECT DRAWING

We at Dalal Tiles work with architects and designers to understand their vision and convert their ideas into reality.

# O2 COST ESTIMATION & PROJECT AWARD

We follow the project to the tender stage, and work closely with bidding contractors to examine the complete scope of work. We share best practices for product installation, thus reducing time & cost.

# 03 SHOP DRAWING PREPARATION

After the project is awarded we start working on the details. Our design experts create shop drawings for the standard material to be made and how it will be installed.

# 04 PATTERN MAKING

Shop drawings are then sent to the mold house where these are printed and marked on clay and POP, and are further carved by both machines and sculptors based on the design.



#### 05

#### **MOLD MAKING**

After completion of the pattern, molds are made by following a standard procedure using Fiber resin or rubber.

### 06

#### **CASTING AND CURING**

Material is maufactured by spray or premix processand is based on the Grade selected by client. It is kept under plastic sheets and allowed to set for 24 hours. It is then casted out and cured for 7-28 days until the desired strength is achieved.

### 07

#### FINISHING AND PACKING

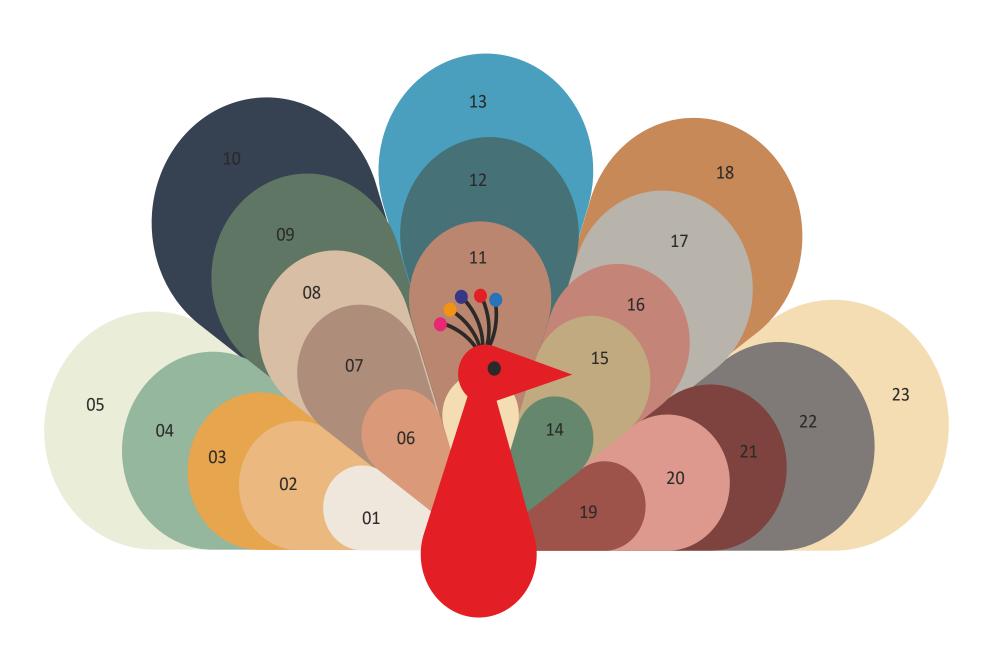
Product is finished and packed considering the factors, how far is the destination, how fragile is the design etc.

### 08

#### **INSTALLATION & FINISHING**

Material is installed based on the shop drawing and finished as per standard operation procedure issued by us.

# **COLOR PALETTE**



### **GRC SCREENS AND PANELS**

Providing and fixing Glass fiber Reinforced Concrete(GRC) screen 50 mm thick on border and 35mm thickinside in approved size, pattern, Design and color manufactured by "DALAL TILES" or Equivalent. Thescreen should be made with '53 grade' white Portlandcement manufactured by 'Birla White/JK' or equivalent, Alkali Resistant Glass fibers manufactured by 'Owens corning' or equivalent, Quartz, fine silica sand, Super plasticizers manufactured by 'BASF/PERMA' or Equivalent, U.V. resistant Synthetic inorganic Pigments should be used for pigmentation manufactured by 'Bayferrox' or equivalent, the material casting should take place in Synthetic Rubber / FRP Mould manufactured by Dalal Tiles or equivalent.

The Fixing of Screens should be Dry Fixing i.e. to be done with Stainless Steel (SS-304) or GI 'L' Shaped Clamps, dash fasteners and pins. Any MS Structure required to be paid extra.

### **FRP SCREENS**

Providing and fixing of FRP Screens (Fiber Reinforced Plastic) of approved design and pattern manufactured by "DALAL TILES" or Equivalent. The grills are made of trapezoidal hollow channels of varying width/ depth and thickness as suggested by the manufacturer and duly approved by the client. Front Sheet thickness of 3 mm and pressed against a sheet of 1mm from back made with fire retardant polyester resin based on phthalic anhydride and standard glycols with additives that give excellent fire retardant properties with reference to IS 6746. Glass fiber of Owens Corning or Equivalent of 300 to 450 gsm mat to be used added with suitable FRP pigments by reputed manufacturer. Thickness of hollow section to be 50mm on border and 35mm inside. FRP grills shall be fixed with suitable approved fasteners to the surrounding on surface of RCC/ masonry work/ MS frame. The FRP grills must be fixed in true to line & level/ plumb with edges finished provided without any extra cost to client. Any MS supports, if required, shall be paid for separately. Other inserts required within the FRP grills sections are included in the rates.

Providing Polyurethane foam filling on the backside of the grills and finishing the same with FRP coating with suitable texture finish to convert the trapezoidal hollow channels to "Foam Filled Tubular Sections"



WIRE & VOID

**GRAND FIR** 

**ROCKRESS** 

**GLAUCA** 





1000mm X 1629mm



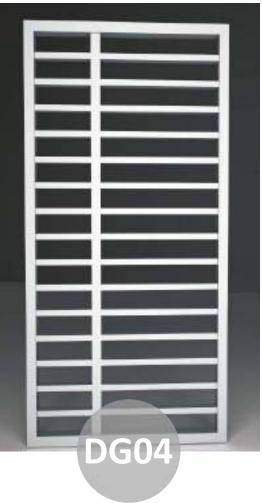
**DIMENSIONS** 

525mm X 1600mm 800mm X 1600mm



**DIMENSION** 

600mm X 1095mm



**DIMENSION** 

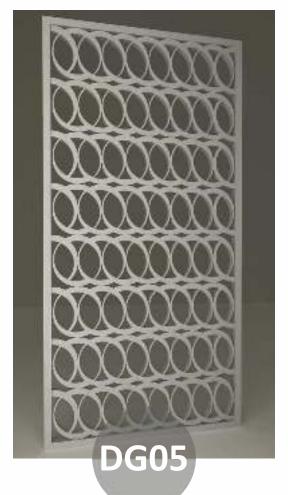
1092mm X 2100mm

### WIND FLOWER

### **MAHOGONY**

### **INDIANA**

### **SICKLE**



**DIMENSION** 

1475mm X 2990mm



**DIMENSION** 

1830mm X 1014mm



**DIMENSION** 

760mm X 760mm



**DIMENSION** 

760mm X 760mm





### SHADE SCALE

### **TAPAS**

### **FESCUE**

### BALSUMROOT



#### **DIMENSION**

750mm X 2500mm



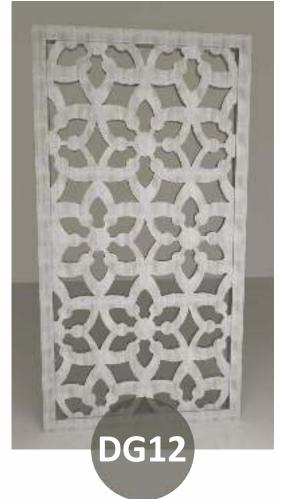
#### **DIMENSION**

1200mm X 2400mm
\*Premium Series



#### **DIMENSIONS**

600mm x 1900mm 980mm x 840mm 945mm x 1960mm 900mm x 1520mm 1650mm x 1200mm 1650mm x 680mm 905mm x 1805mm 890mm x 1513mm



#### **DIMENSION**

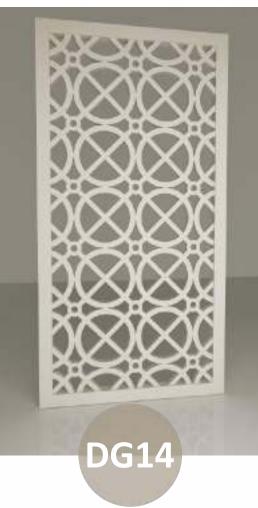
1000mm X 2000mm

RANCHI **ALPHA SEGO** SGT



**DIMENSION** 

1000mm x 1600mm



#### **DIMENSION**

777mm X 1525mm



#### **DIMENSION**

1600mm x 1600mm



#### **DIMENSIONS**

1620mm x 1635mm 1070mmx470mm 1640mm x 1630mm

2060mm x 1165mm 1910mm x 1115mm 2290mm x 1533mm 2060mm x 1645mm 860mm x 2100mm





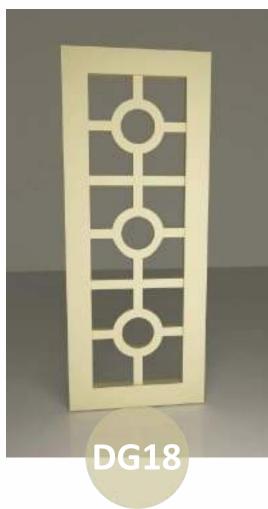
### **ORCHID**

### **DALEA**

### **DATURA**

### **FLABUM**









**DIMENSIONS** 

1000mm x 1000mm 600mm x 600mm 1500mm x 1500mm 750mm x 750mm 2000mm x 2000mm

**DIMENSION** 

300mm x 900mm

#### **DIMENSIONS**

600mm x 1500mm 800mm x 1500mm

#### **DIMENSION**

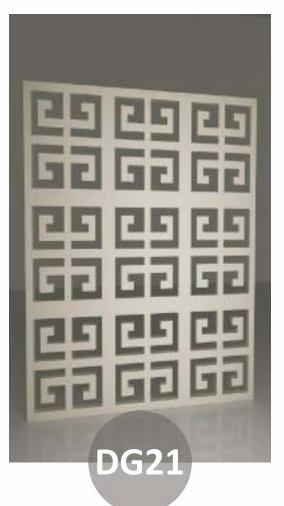
900mm x 900mm

### **TAOD FLAX**

### **OSIER**

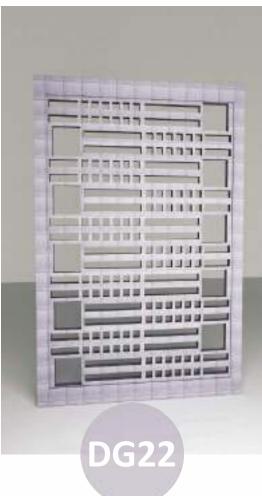
### **CLOVER**

### **JUNIPER**



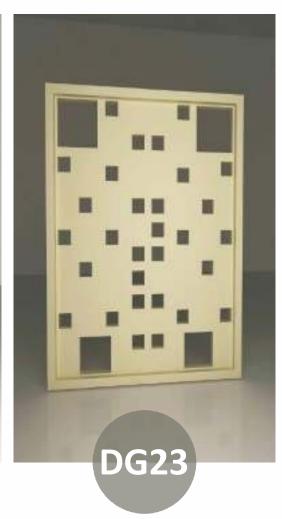


1200mm x 1200mm 1600mm x 1600mm



**DIMENSION** 

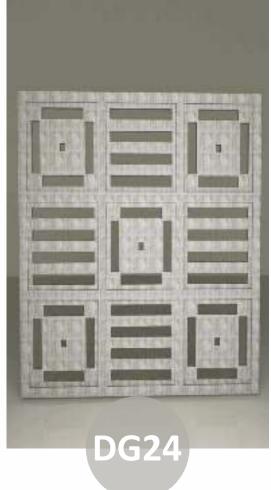
1800mm x 900mm



#### **DIMENSIONS**

600mm x 1500mm 1200mm x 1650mm 945mm x 1960mm

650mm x 1650mm



**DIMENSION** 

900mm x 900mm

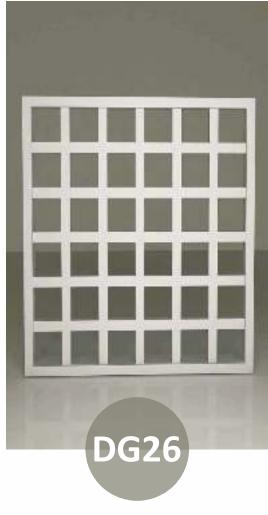




### SWASTIK BOXES PEAVINE GILLIA

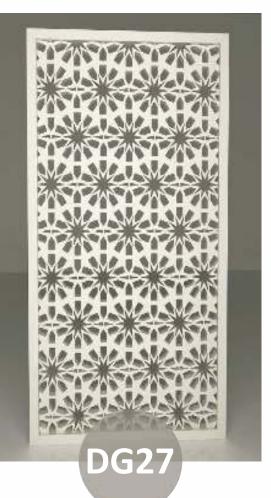


**DIMENSION** 600mm x 600mm



**DIMENSIONS** 

900mm x 900mm 1087mm x 840mm



#### **DIMENSIONS**

1175mm x 840mm 1175mm x 877mm 1027mm x 1381mm



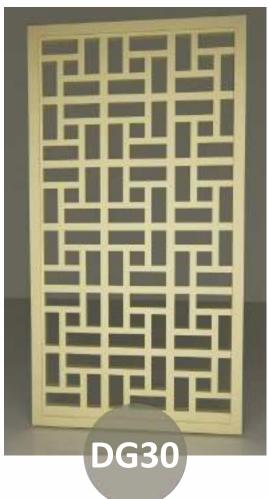
**DIMENSION** 

600mm x 600mm

### CICELY OLD DELHI FLAX POD



**DIMENSION** 600mm x 2400mm



**DIMENSIONS**1238mm x 2220mm 1000mm x 1977mm

1381mm x 760mm 2430mm x 1052mm



**DIMENSION** 900mm x 900mm



**DIMENSION** 900mm x 900mm





### **ASPEN**

### **STUMPHA**

### **PURSLANE**

### VALERIAN



**DIMENSION** 640mm x 640mm

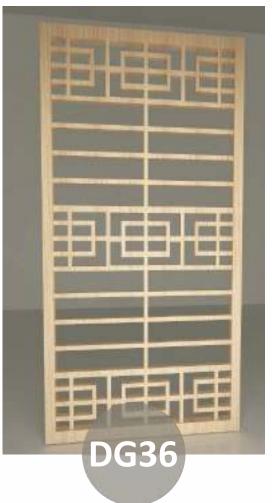


**DIMENSION**1200mm x 1200mm



DIMENSION

520mm x 1012mm



#### **DIMENSIONS**

### **SPIREA**

### **ROWAN**

### **SANCTUM**

### **ZEBRA**



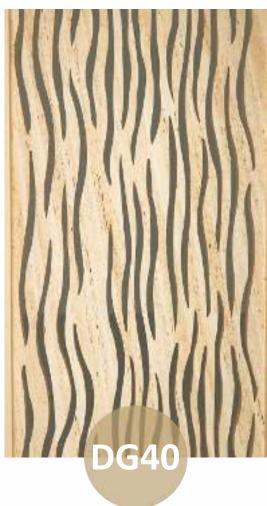
**DIMENSION** 1200mm x 2800mm



**DIMENSION** 750mm x 2200mm



**DIMENSION**600mm x 2100mm



**DIMENSION** 750mm X 1800mm

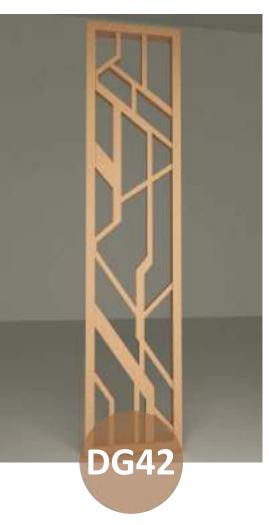




### TRUNK TREFOIL WEB



**DIMENSION** 600mm x 2100mm



**DIMENSION** 300mm x 1600mm

THICKNESS 50mm



**DIMENSION** 

600mm x 2100mm



**QUERCUS** 

**DIMENSION** 

750mm x 1800mm

# **JUNIPERS**

# **MAGNOLIAS**

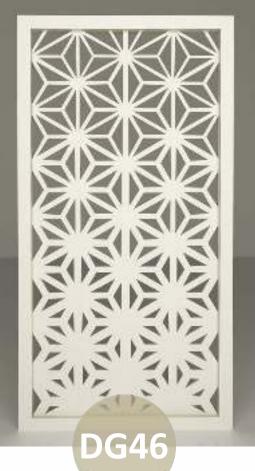
## **FICUS**

## **AUREA**



DIMENSION

600mm x 2100mm



**DIMENSION** 

750mm x 1800mm



**DIMENSION** 

600mm x 2100mm



**DIMENSION** 

750mm X 1800mm



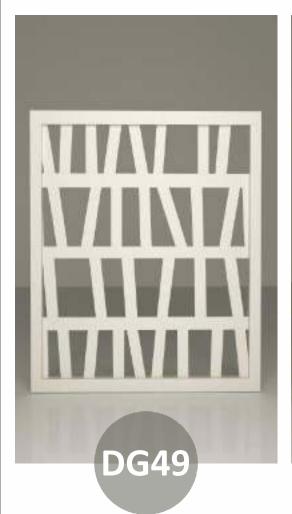


## **ALZEBRA**

# **MARIGOLD**

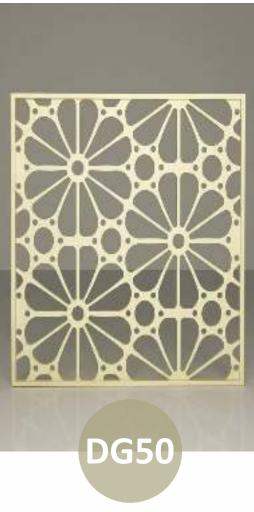
# **SCABIOUS**

## LILAC



**DIMENSION** 

600mm x 2100mm



**DIMENSION** 

750mm x 1800mm



**DIMENSION** 

600mm x 2100mm



**DIMENSION** 

750mm x 1800mm

## **LARKSPUR**

## **TRITICUM**

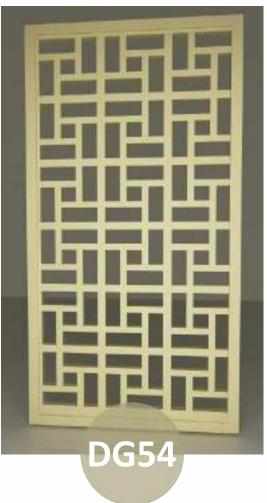
# WOLFGROVER

## **PAPAVER**



**DIMENSION** 

600mm x 2100mm



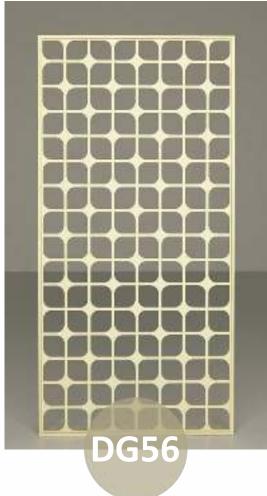
**DIMENSION** 

750mm x 1800mm



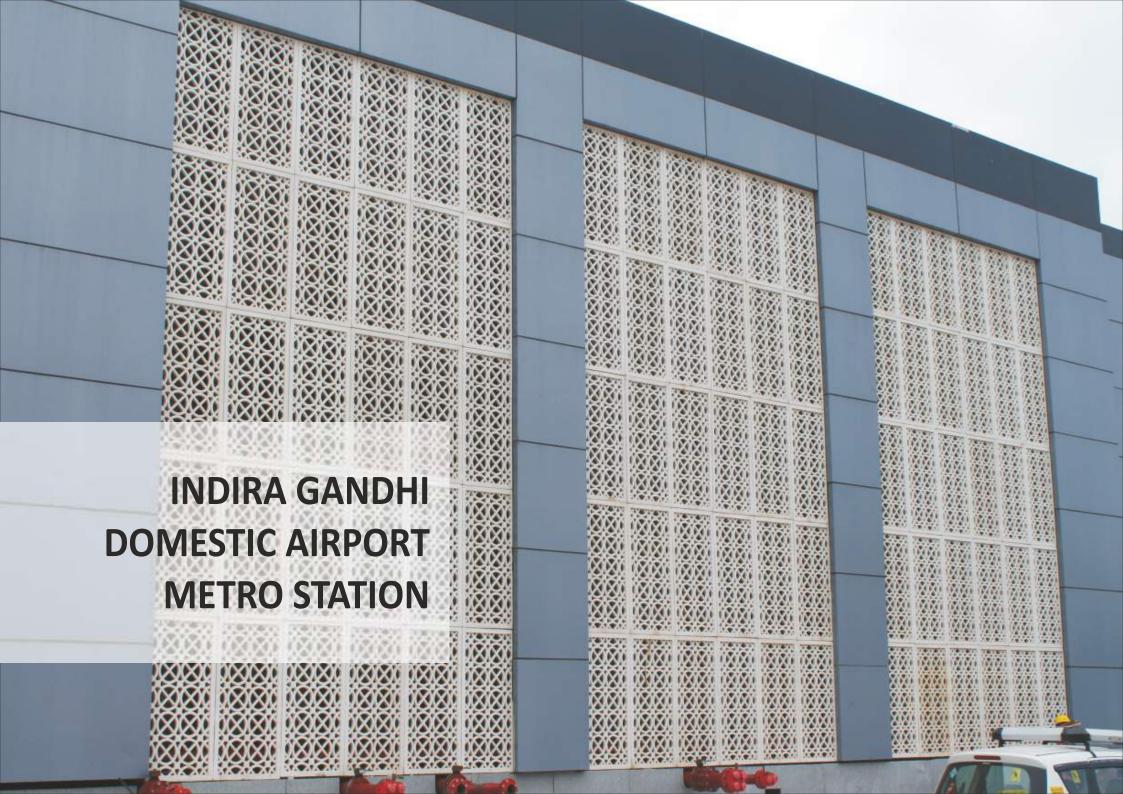
**DIMENSION** 

600mm x 2100mm



#### **DIMENSION**

750mm x 1800mm





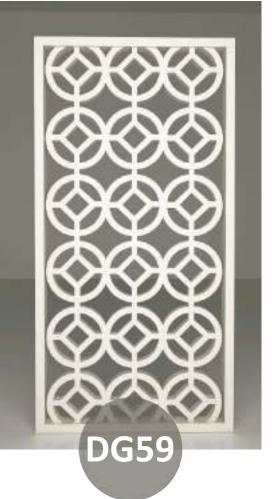
# NIVALIS DAISY VULGARIS LUPIN



600mm x 2100mm



**DIMENSION**750mm x 1800mm



**DIMENSION**600mm x 2100mm



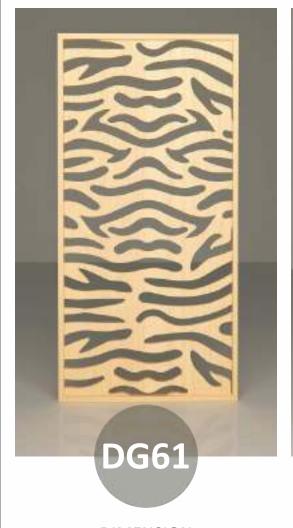
**DIMENSION** 750mm x 1800mm

# **AMAZON**

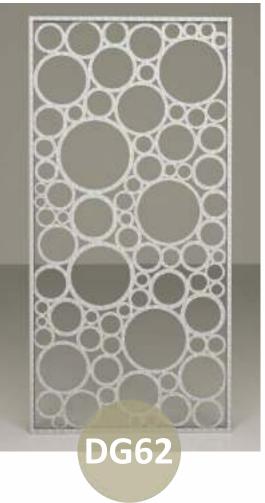
# MOONS

# **PLANTARY**

# **ABYMARH**



**DIMENSION** 600mm x 2100mm



**DIMENSION**750mm x 1800mm



**DIMENSION** 600mm x 2100mm



**DIMENSION** 750mm x 1800mm





## **BHAVNAGAR**

# WILLOW

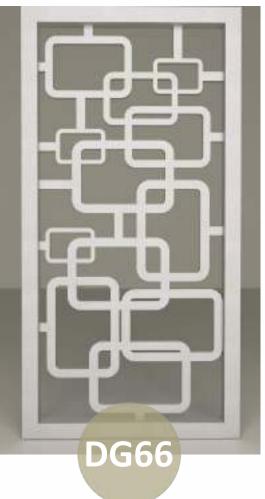
# **WILLOW**

## **SORREL**





600mm x 2100mm



#### **DIMENSION**

750mm x 1800mm



#### **DIMENSIONS**

900mm x 900mm 1050mm X 1050mm 550mm X 550mm



#### **DIMENSIONS**

600mm X 1200mm 1400mm X 450mm 1400mm X 750mm

# **SWASTIK 2**

# **STUMPHA**

# **YARROW**

# **MAPLE**



**DIMENSION** 

1610mm x 1610mm 1520mm x 1610mm



**DIMENSION** 

900mm x 900mm



**DIMENSION** 

1000mm x 2000mm



**DIMENSION** 

807mm x 2127mm







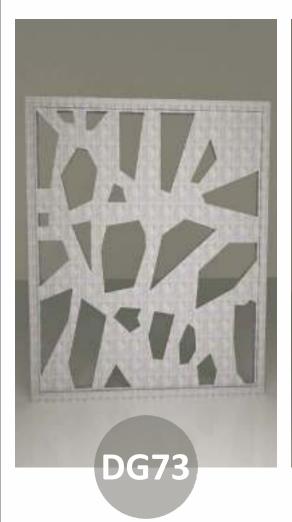


# **HAETHER**

## **LIMBER**

# **SUBALPINE**

# **VELVET LEAF**



**DIMENSIONS** 

600mm x 600mm 900mm x 900mm



**DIMENSION** 

900mm x 900mm



**DIMENSION** 

755mm x 1615mm



**DIMENSION** 

910mm x 1725mm

## COLUMBINE

## **MADIDUM**

# CONSTELLATION

### **COLLOMIA**



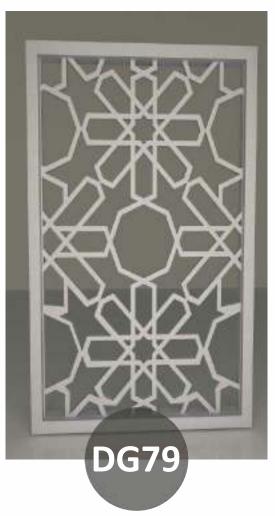
**DIMENSIONS** 

900mm x 2000mm



**DIMENSION** 

1365mm x 2650mm



**DIMENSION** 

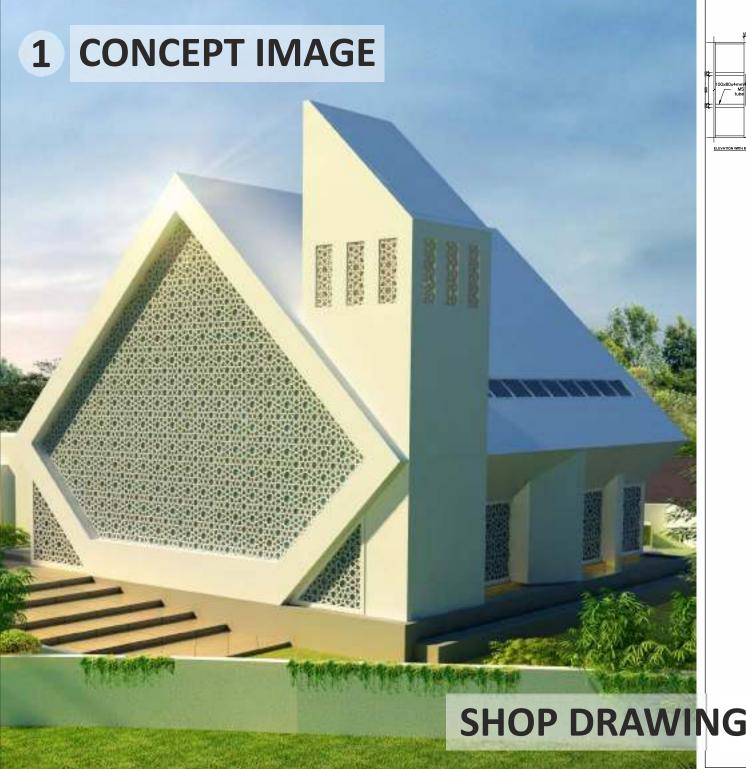
600mm x 1800mm

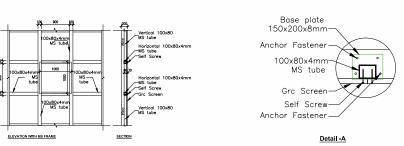


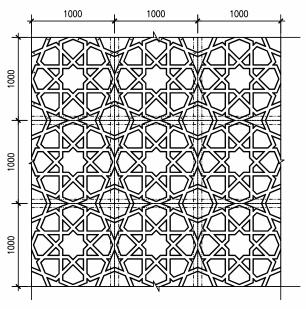
**DIMENSIONS** 

1165mm x 2410mm 950mm x 2920mm 750mm x 2400mm

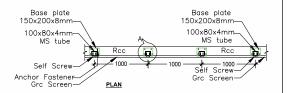
950mm x 2800mm



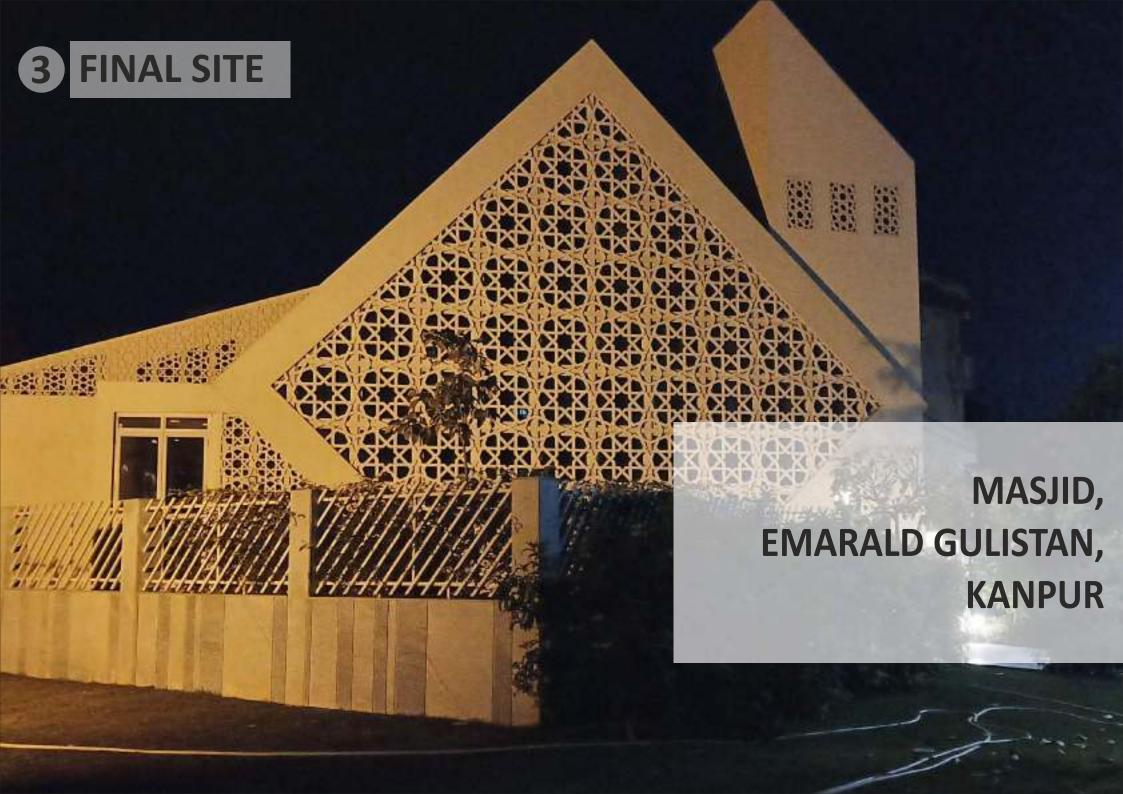




**ELEVATION WITH GRC SCREEN** 



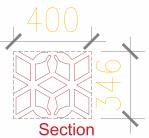
	PROJECT-:EMERALD GU	LISTAN	Dalal Bulider Pvt Ltd. Add-:Corp.off. :Flat No.178-179,Poket-26,				
	DRAWING TITLE:	DRAWING No.			No,1/8-1/9,1 ni.New Delhi		
VAVINIC 2	TYPICAL FIXING DETAIL OF GRC SCREEN	DWG001	Mob No-: 9 E mail:dalal			651,9811372	2125
	DRAWN BY : AMAN	REVISION NO. &DATE					_
	SCALE - 1:1		G	F	R	C	
A CONTRACTOR OF THE PARTY OF TH	DATE: 6-9-2017		GLASS	FIBRE	REINFORCED	CONCRETE	

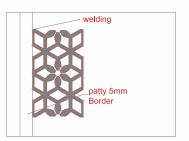


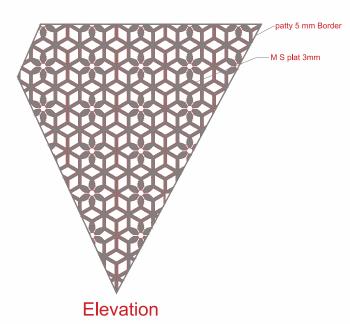




### Grc screen fixing detail







PROJECT-:Temple		Dalal Bulider Pvt Ltd.		
DRAWING TITLE:	DRAWING No.	Add-:Corp.off. :Flat No,178-179,Poket-26, Sector-24,Rohini,New Delhi-110085		
TYPICAL FIXING DETAIL OF GRC SCREEN	<u>DWG001</u>	Mob No-: 9312972125,09416283651,9811372125 E mail:dalaltiles@yahoo.com		
DRAWN BY : Tejas	REVISION NO. &DATE	C $E$ $D$ $C$		
SCALE - 1:1		G F R C		
DATE: 9-1-2018		GLASS FIBRE REINFORCED CONCRETE		

SHOP DRAWING 2





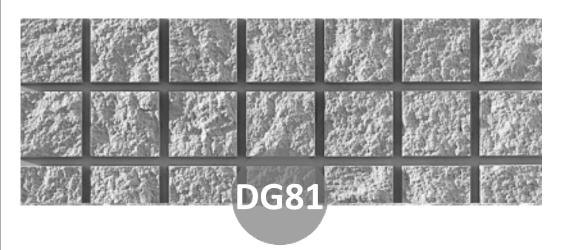








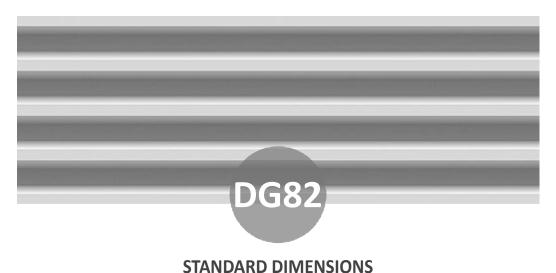
# **CONTEMPORARY**



STANDARD DIMENSIONS 600mm x 1200mm



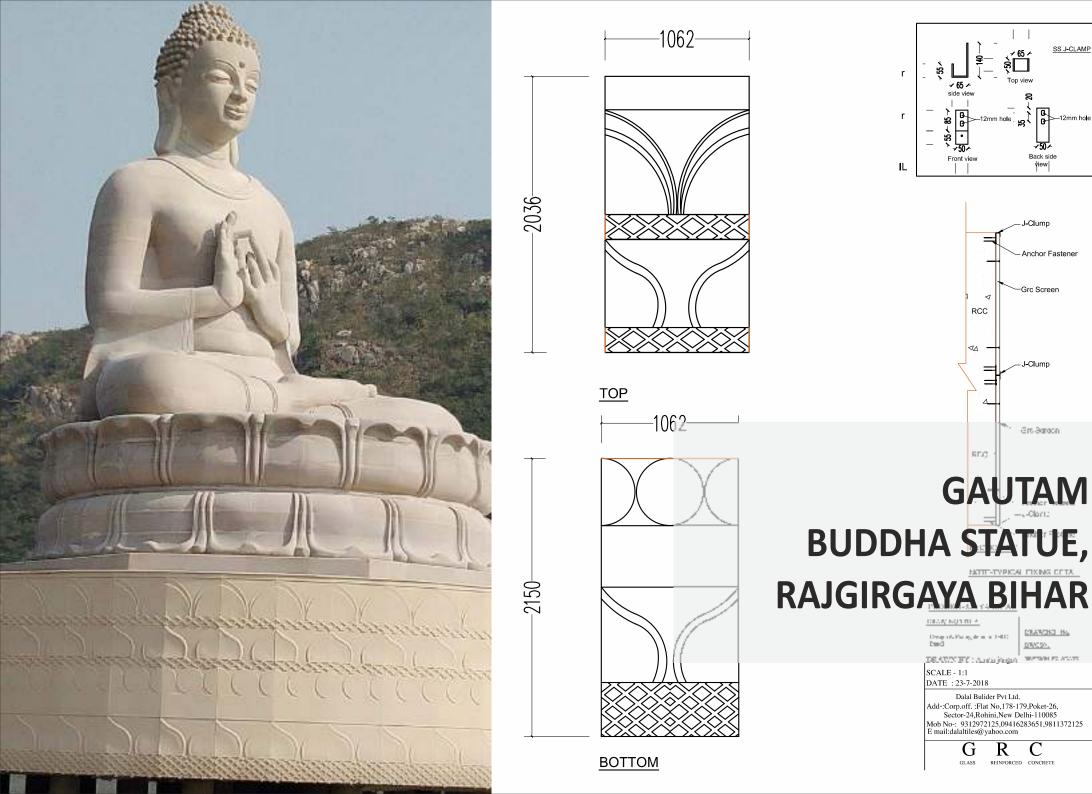
STANDARD DIMENSIONS 600mm x 1200mm

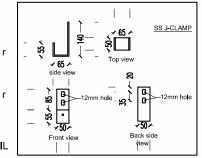


DG84

600mm x 1200mm

**STANDARD DIMENSIONS** 600mm x 1200mm





J-Clump

Anchor Fastener

-Grc Screen

J-Clump



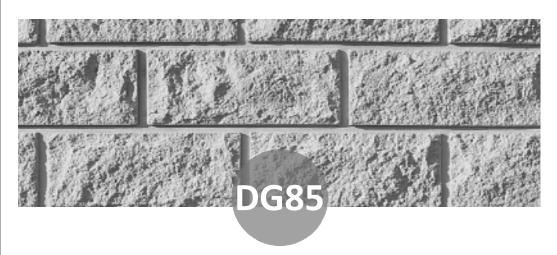
Designate Paragraph of a 1980. Design

Dalal Bulider Pvt Ltd.

Sector-24,Rohini,New Delhi-110085 Mob No-: 9312972125,09416283651,9811372125 E mail:dalaltiles@yahoo.com



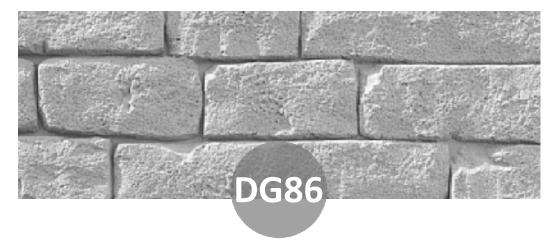
# **BRICK STONE SERIES**



STANDARD DIMENSIONS 600mm x 1200mm



**STANDARD DIMENSIONS** 600mm x 1200mm



STANDARD DIMENSIONS 600mm x 1200mm



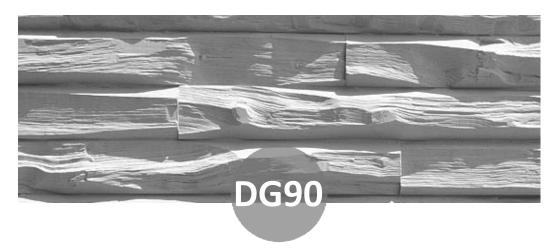
STANDARD DIMENSIONS 600mm x 1200mm



# **ANTIQUE WOOD SERIES**



STANDARD DIMENSIONS 600mm x 1200mm



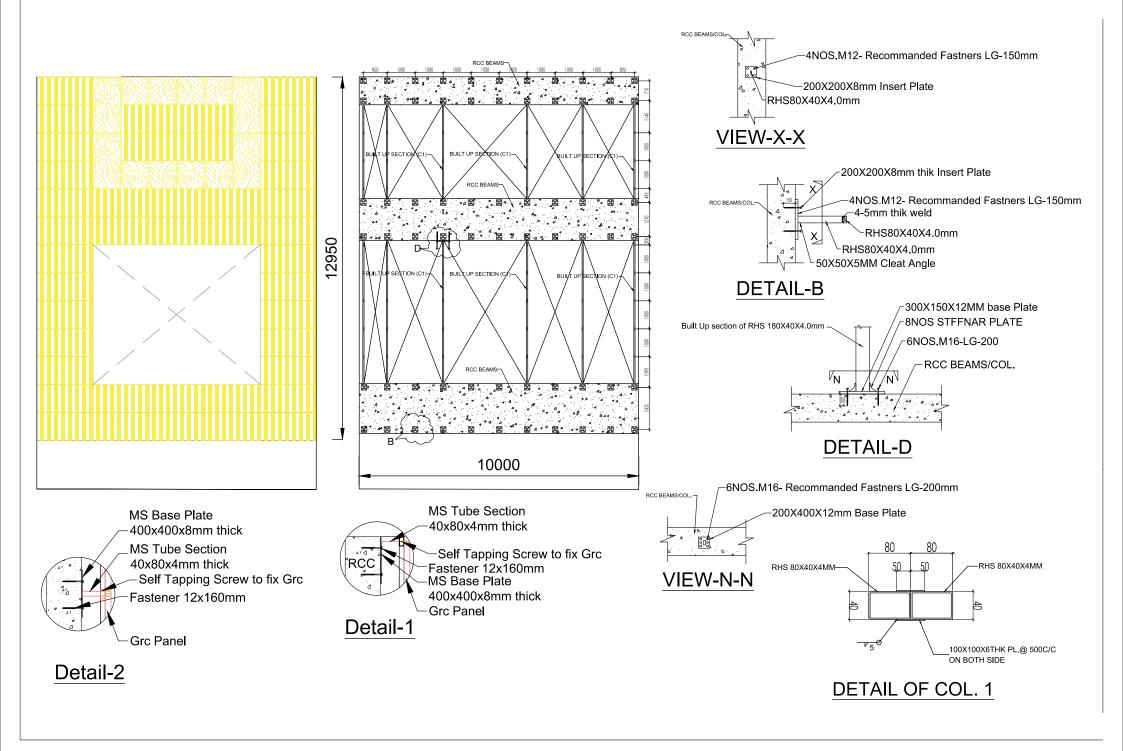
STANDARD DIMENSIONS 600mm x 1200mm



STANDARD DIMENSIONS 600mm x 1200mm











**EGYPTIAN 2** INDIAN **EGYPTIAN** GREEK

# **ROMAN ROMAN 2 EGYPTIAN 3 GREEK 2**

\*Note : All these designs & dimension can be customized



















DBR 11 DBR 12 DBR 13 DBR 14 DBR 15











**DBR 17** 

**DBR 18** 

**DBR 19** 

**DBR 20** 











**DBR 21** 

**DBR 22** 

**DBR 23** 

**DBR 24** 

**DBR 25** 











**DBR 26** 

**DBR 27** 

**DBR 28** 

**DBR 29** 

**DBR 30** 











**DBR 31** 

**DBR 32** 

**DBR 33** 

**DBR 34** 

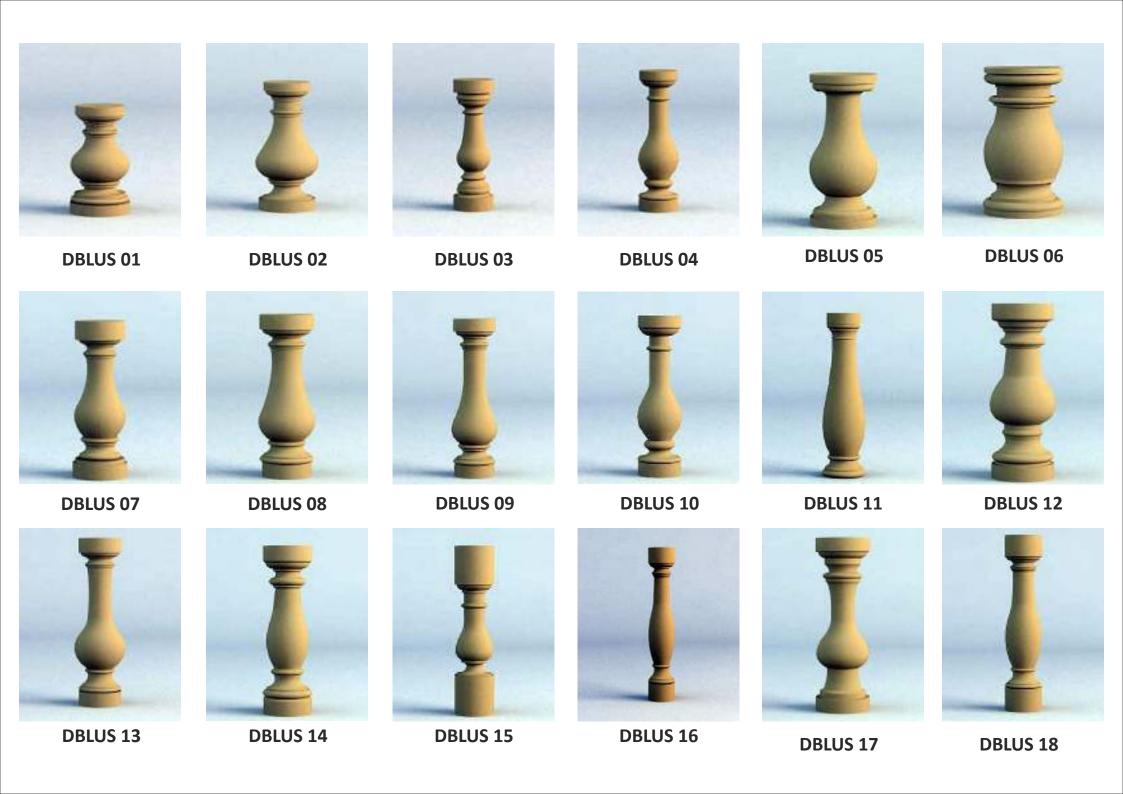
**DBR 35** 

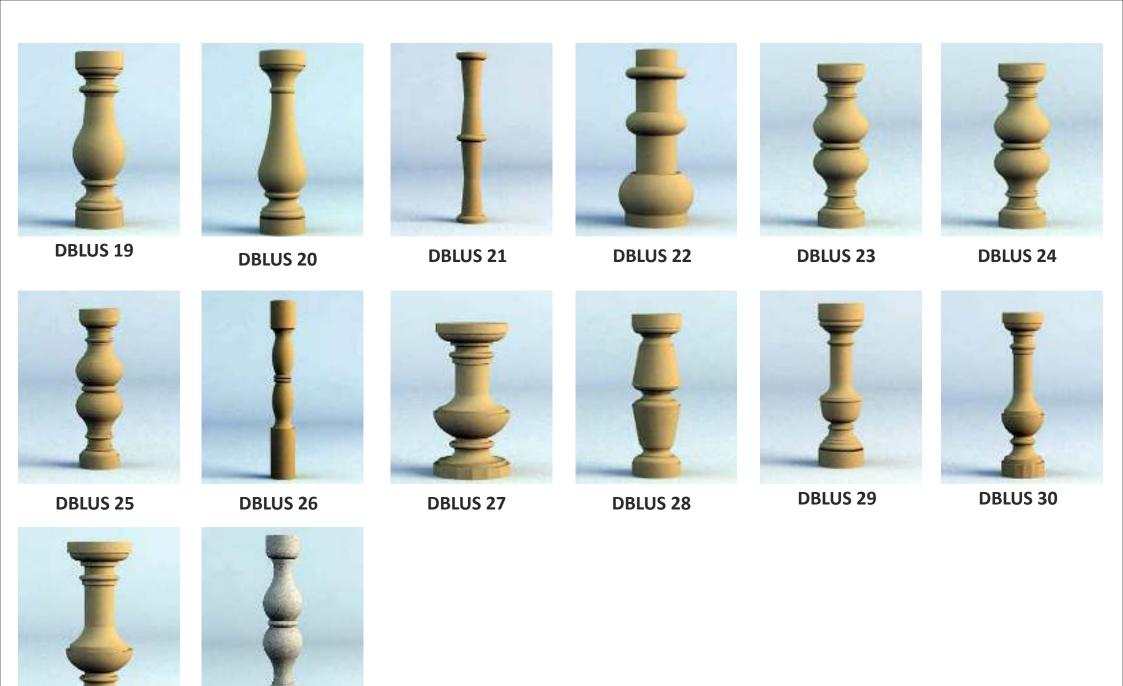


**DBR 36** 









DBLUS 31

DBLUS 32











## **STANDARD DIMENSIONS**

300mm x 300mm 150mm X 150mm THICKNESS 20 ± 2mm







### FROM ARCHITECTS AND DESIGNERS

We have a design concept and would like to understand how your materials can help achieve it, or provide a solution for a particular technical issue. What can you do to assist us?

Dalal Tiles regularly works with architects and designers at the design stage to understand their vision and help bring concepts to reality. We are pleased to discuss material and installation options, technical performance attributes and provide details. More often than not, the earlier we are asked to contribute, the more likely we can provide a useful solution.

We have project where we have encountered budget constraints and must now "value-engineer" the design. How can you assist us?

We are pleased to review drawings and material options previously specified in order to identify opportunities to substitute materials, simplify construction, speed up installation, and ultimately save money. Honest, forthright advice is what we are known for, even if it does not result in use of our materials or solutions on a given project.more likely we can provide a useful solution.

Are you able to provide technical input on a complex new design we are working on?

Yes, we are happy to review drawings and identify opportunities where use of our solution can address a technical challenge. We do not charge for this service, but if asked to develop 3D models or other technical documentation, or must fabricate a proof of concept mockup, charges may apply. Our hope, however, is that our input results in Dalal Tiles being specified in the project, and that we will earn the opportunity to be part of it.

We are interested in learning more about your materials and solutions. How do we obtain more information?

You can anytime contact us and if required we will send our local representative who could give you complete information about our products.



## **FROM CONTRACTORS**

# We sometimes obtain products on a "supply and install" basis. Can Dalal Tiles offer this service?

Because we supply all across India, it is not always economical or practical to transport people from the factory over long distances to job sites where they may have to wait on other trades. Often, given local laws and business requirements, we may not be able to offer installation, even if we would like to. There are certain situations in India where "supply and install" service is applicable. Otherwise, we would be happy to recommend proven contractors that we have worked with in the past.

# How do I obtain pricing for a job we are quoting, or have already secured?

Prices are quoted on a project-by-project basis. As a custom manufacturer, price is normally comprised of tooling and material costs, and is influenced by quantity, complexity, lead time, and factory finishing (if specified). Requests for pricing are best submitted by sending an e-mail to info@dalalgfrc.com . Be sure to provide the name of the project, its location, relevant plans, sections, and quantity take-offs (if available). Please clarify when the quotation is required, and your complete contact details. A member of our estimating team will contact you to acknowledge receipt and clarify any issues once they've had the opportunity to initially review the details you've provided.

#### What is your typical lead time for an order? How can we reduce it?

We always manufacture to order. Therefore, we do not maintain an inventory of products ready to ship. Lead time depends on the size and complexity of an order, plant capacity, and the customer's project schedule, but is always contingent on the receipt of approved shop drawings by the architect. Lead times are always calculated from the time approved drawings are received by Dalal Tiles. We will work closely with the project job site to establish and meet critical deadlines. Typically, products can be shipped to a project work site in three to ten weeks after shop drawings are approved. Specific lead-times are quoted, based upon the then current factory schedule, by a member of our Estimating Team at the time of Quotation. Partial shipment can be arranged to meet difficult or short lead times. Lead times can be streamlined by ensuring that Dalal Tiles has the most current version of the architectural drawings, either as an unlocked PDF file or a DWG file. From these drawings, we can prepare our own shop drawings. Lead time can also be reduced by ensuring prompt turnaround of the approved Dalal Tiles shop drawings by the architect.



#### **GRC SCREENS/JALI, PANELS**

Table a: Guide mix design - Grade 8, Grade 10 and Grade 18

Grade	Grade 8	Grade 10	Grade 18  Direct Sprayed GRC			
Description	General purpose Premix	Sprayed Premix or High Quality cast premix				
Aggregate/cement ratio	0.5-1.50	0.5-1.5	0.5-1.5			
Water cement ratio	0.30-0.40	0.30-0.40	0.30-0.40			
Glass fiber content (% by weight of total mix)	2.0-3 %	2.0 – 3.5%	4.0 – 5.5 %			
Minimum bulk dry density kg/m3	1800	1800	1800			
Minimum bulk wet density kg/m3	2000	2000	2000			
Compressive strength (IS 516) MPA	35-55	40-65	50-70			
Tensile Strength (IS 516) MPA	4-7	6-11	8-15			
Impact strength kg/m2	7-15	7-20	7-22			
Thickness	10-50 mm as per architect's specifications					
Weight	25 to 70 kg/m2 depending on the design					
Finish	Smooth/ Acid wash/ shot blasted					
Colors	As per architect re	equirements.				

#### GFRP SCREENS/JALI, PANELS

Test	Specification	Comments		
Front and Side Sheet Thickness	3 mm	Sheet Thickness of FRP from front and sides		
		should be minimum		
		3mm from front and		
		sides.		
Back Sheet Thickness	1 mm	Minimum Sheet		
		Thickness packed from		
		back should be 1mm.		
Filled Material	10-46 mm	Liquid Polyurethane		
		foam should be filled		
		and cast in situ as per		
		approved make.		
Resins	Fire Retardant Polyester	To be based on phthalic		
	Resin.	anhydride and standard		
		glycols, manufactured		
	1966 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	by physical addition of		
		additives to give		
		excellent fire retardant		
	APPENDING TO THE RESERVE OF THE PERSON OF TH	properties with		
		reference to IS 6746.		
Liquid Resin Properties		Make as specified		
Appearance	Pale White			
Acid Value	20 ± 2	Mg KOH/gm.		
Viscosity	$900 \pm 100$	Brookfield RVT Sp2/10		
		rpm		
Specific Gravity at 25	$1.45 \pm 0.01$			
Degree				
Styrene Content %	$30 \pm 2$			
Fiber Mat	300 to 450 gsm	Make as specified		
Color Pigments	As per Architect/ Site in			
	charge			
Surface finish	Waxpol Polished	Surface to be properly		
		polished from front and		
		back with waxpol.		

#### **GRC PAVING TILES**

Test	Parameters	Comments		
Top Surface	Mat, Chequered, Plain	1 Cement : 1 Marble		
	and Stone Finish	powder/Quartz/silica		
Bottom Layer	As per Requirements	M-40		
Sizes	300X300x25,			
	150x150x22			
Wear Resistant	AV Wear: 2 mm Max	IS 13801:1993		
	Max. wear on			
	Individual: 3mm			
Thickness Variation	±1 mm	IS 13801:1993		
Water Absorption	5% Max	24 Hours Immersion in water		
Water Absorption in	1% Max	24 Hours Immersion in		
Top Layer		water		
Wet Transverse Strength	3.0 N/mm2 Min	IS 13801:1993		
Straightness	1% Max	IS 13801:1993		
Perpendicularity	2% Max	IS 13801:1993		
Flatness of surface	Convexity: 1mm (Max)	IS 13801:1993		
Compressive strength	40.0 N/mm2 Min			
Diff. of Thickness btw	3.0 Max	IS 13801:1993		
the thickest and thinnest				
line				
Colors	As Per Architect/Site In	BS EN 12878:1999		
	charge			
Lacquer Coating	2 Layers of Spray	Should be coated with		
	Coating	Spray Gun with		
		minimum 2 layers		
		giving homogeneous		
		material all through		
		surface.		
Fiber Reinforcement	Glass or Synthetic Type	Added to avoid		
	Fibers	shrinkage cracks and		
		reduce wear over		
		surface.		



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# DALAL TILES INDUSTRIES

# **CONCRETE REDEFINED**

Corp. Off. : 178-179, Pocket-26, Sector-24, Rohini, Delhi-110085 For Inquiry Contact:
9891924243, 9811372125, 9312972125
Architect Helpline No.: 9953490566

E-mail info@dalalgfrc.com rohitdalal@dalaltiles.com

