



**Rawji Exports**



# MOULDED DOORS



Plain  
Smooth Finish



Plain  
Leather Finish



Plain  
Woodgrain Finish



Single Panel  
Woodgrain Finish



Single Panel  
Woodgrain Finish



2 Panel  
Woodgrain Finish



2 Panel Arch  
Woodgrain Finish



3 Panel Arch  
Woodgrain Finish



3 Panel Square  
Woodgrain Finish



4 Panel  
Woodgrain Finish



4 Panel Arch  
Woodgrain Finish

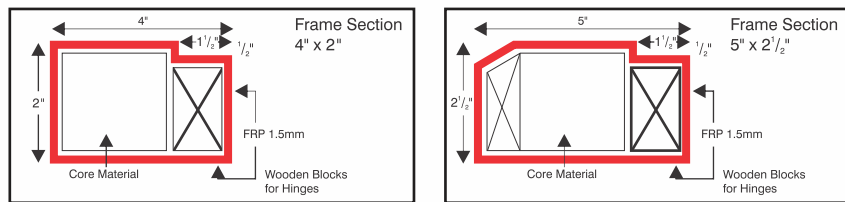


6 Panel  
Woodgrain Finish

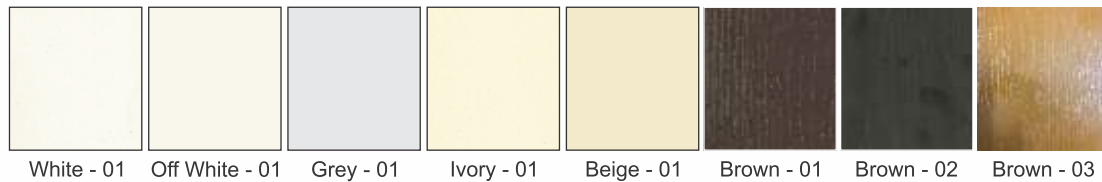


Doors with Glass

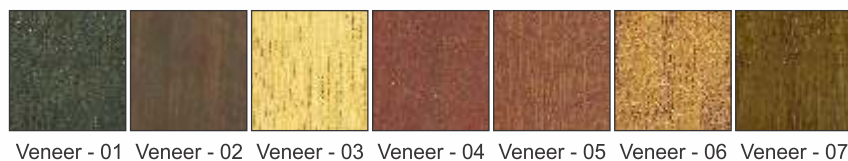
## FRP Door Frame



### SOLID COLOURS



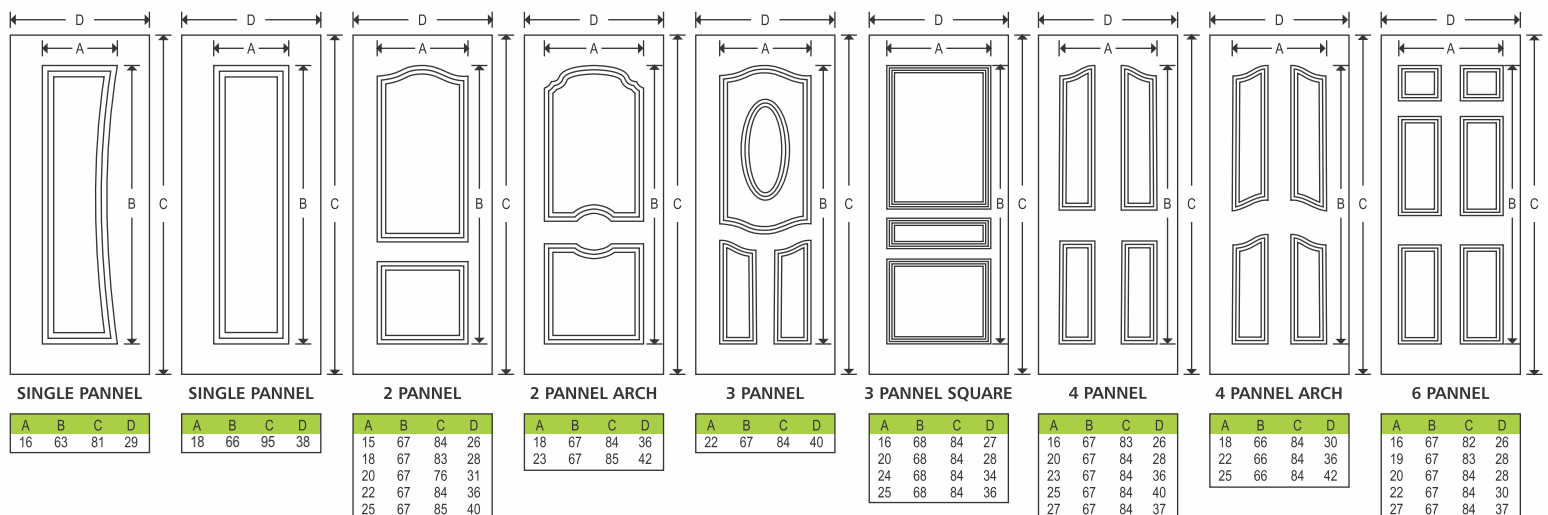
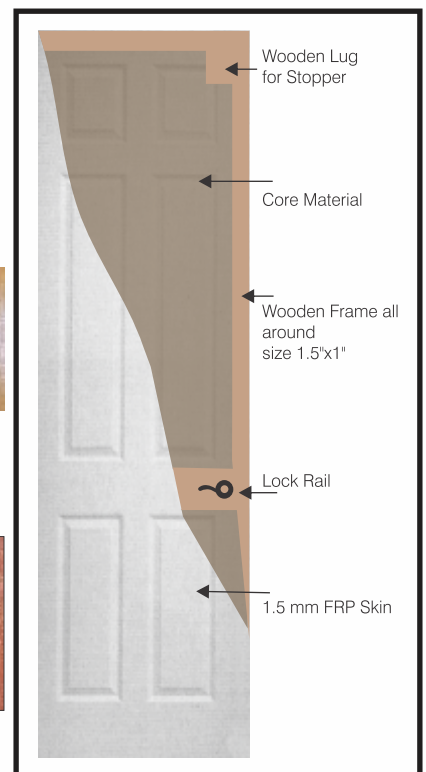
### VENEER COLOURS



### SURFACE FINISH



## Cross Section View



| A  | B  | C  | D  |
|----|----|----|----|
| 15 | 67 | 84 | 26 |
| 18 | 67 | 83 | 28 |
| 20 | 67 | 76 | 31 |
| 22 | 67 | 84 | 36 |
| 25 | 67 | 85 | 40 |

| A  | B  | C  | D  |
|----|----|----|----|
| 18 | 67 | 84 | 36 |
| 23 | 67 | 85 | 42 |

|               | Max Length | Max Width |
|---------------|------------|-----------|
| PLAIN SMOOTH  | 96         | 48        |
| PLAIN LEATHER | 96         | 48        |
| PLAIN GRAIN   | 96         | 48        |

\*\* all sizes are in inches

## SPECIFICATIONS FOR FRP DOORS

- 1.5mm thick F.R.P. Skin is moulded with the Core Material forming a Sandwich Pannel. Necessary wooden supports are provided for fixing the Handles, Locks, Stoppers and other accessories.
- The door is Self-Pigmented and available in colour of your choice. Also available in veneer finish.
- Doors available in smooth / mat / veneer finish.
- The standard door thickness is 30/35 mm.
- Doors available with fire retardant properties.

## ADVANTAGES FOR FRP DOORS

- The fixing is simple as conventional Wooden Doors and can be fixed on any door frame.
- The doors are free from swelling, warping or splitting & have good impact resistance.
- The doors have no effect of water, insects or termites and have excellent weathering properties.
- F.R.P. doors have a significantly lower coefficient of thermal expansion compared to Wooden Doors, allowing doors and frames to be manufactured to a tight tolerance.

## FRP/GRP MANHOLE COVERS



**Square**  
600 mm X 600 mm



**Square Grating**  
600 mm X 600 mm



**Square Grating**  
450 mm X 450 mm



**Square**  
450 mm X 450 mm



**Square**  
300 mm X 300 mm



**Water Tank Cover**  
600 mm Dia



**Rectangle**  
900 mm X 450 mm



**Circular**  
530 mm Dia



**Circular**  
600 mm Dia



**Recess**  
**Cover**



**Pultruded Gratings**



**Moulded Square Gratings**



**Moulded Gratings**

### STANDARD SPECIFICATIONS :

**FRP Manhole Covers** are made using thermoset material for long term durability . The material comprises of cross-linked polyesters combined with Fibreglass reinforced materials to sustain against wear-n-tear for heavy load vehicular traffic. It is 40% lighter than traditional Precast Concrete and Cast Iron covers. Provides upto 5 times more compressive strength. This resilient material withstands constant exposure to weather or sun without sacrificing security or aesthetics.

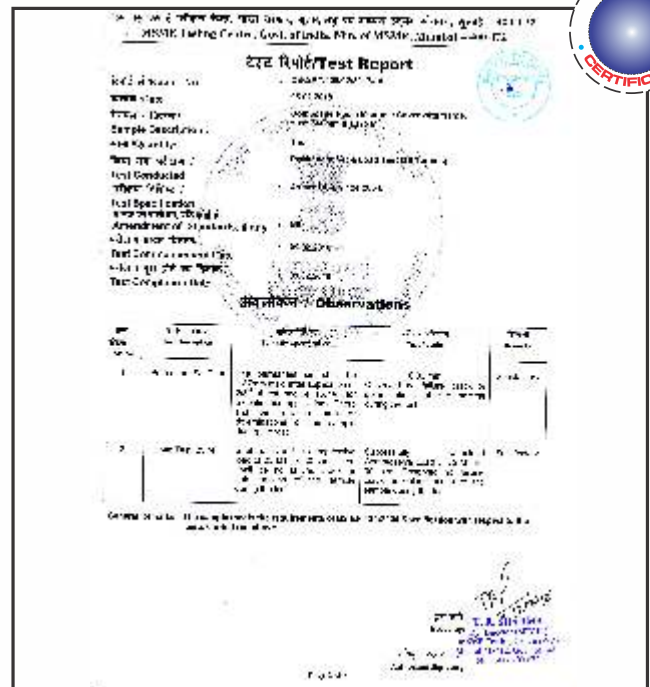
## STANDARD SIZES AVAILABLE :

| Product Type                         | Size ( Clear Opening ) |           |
|--------------------------------------|------------------------|-----------|
|                                      | in mm                  | in inches |
| Circular Manhole cover with Frame    | 530 Dia                | 21" Dia   |
|                                      | 600 Dia                | 24" Dia   |
| Rectangular Manhole cover with Frame | 450 X 600              | 18" X 24" |
|                                      | 450 X 900              | 18" X 36" |
|                                      | 600 X 900              | 24" X 36" |
|                                      | 900 X 900              | 36" X 36" |
| Square Manhole cover with Frame      | 300 X 300              | 12" X 12" |
|                                      | 450 X 450              | 18" X 18" |
|                                      | 600 X 600              | 24" X 24" |
|                                      | 900 X 900              | 36" X 36" |
| Gully Gratings with Frame            | 450 X 450              | 18" X 18" |
|                                      | 450 X 600              | 18" X 24" |
|                                      | 600 X 500              | 24" X 20" |
|                                      | 600 X 600              | 24" X 24" |
| Water Tank Cover                     | 600 Dia                | 24" Dia   |

★ Custom Sizes Available on Request ★

### FRP Manhole Covers Comparison Table

| PARAMETER             | RCC           | CI            | RAWJI<br>FRP Covers    |
|-----------------------|---------------|---------------|------------------------|
| Life Span             | Low           | Moderate      | High                   |
| Strength/Weight Ratio | Very Low      | Moderate      | Very High              |
| Cost                  | Low           | Moderate      | Comparable to CI       |
| Scrap Value           | Low           | High          | Nil (Zero Scrap Value) |
| Colour Range          | Concrete Grey | Black         | Range Available        |
| Logo Embossing        | Not Available | Not Available | Possible               |
| Custom Design / Size  | Not Available | Not Available | Possible               |
| Handling              | Difficult     | Difficult     | Easy                   |
| Thermal Expansion     | Negligible    | High          | Nil                    |
| Corrosion Resistance  | Low           | Medium        | High                   |
| Abrasion Resistance   | None          | None          | Yes                    |



### Advantages

- No resale value hence free from theft.
- Easy to handle and no risk of injury due to light weight.
- Does not rust due to chemical / sewage / rain water.
- High service life as it does not corrode and has high impact resistance.
- High on aesthetics. The covers are self pigmented and do not require periodical painting for maintenance.
- The pigments are built in the material and UV stabilized. Hence there is no peeling/ fading of the colours due to sunlight.
- Resistant to extreme temperatures.

# PRE-FABRICATED CABINS



**Two Persons Cabin**  
1.83m x 1.20m x 2.40m



**Site Office**  
2.50m x 3.0m x 2.40m



**Single Person Cabin**  
1.20m x 1.20m x 2.40m



**Economy Model**  
1.20m x 1.20m x 2.10m



**Toll Booth Cabin**  
0.90m x 1.50m x 2.10m



**Single Person Cabin**  
0.90m x 1.0m x 2.10m



**Executive Toilet**  
0.90m x 1.0m x 2.10m



**Executive Toilet (Interior)**  
0.90m x 1.0m x 2.10m



**Multiple Toilets**



**Multiple Toilets**



**Toilet with Bio Digester**



**Economy Toilet**

## SPECIFICATIONS OF FRP CABINS

- Size : As per customers requirement.
- Walls : The Cabin walls are made of F.R.P. Sandwich pannels. The pannels are made of 1.5 mm thick FRP skin with corrugated structural member in between. This makes the walls a very strong structural system. Overall thickness will be 17/18 mm.
- Roof : F.R.P. Roof has Dome like structure. Larger cabins will have a sloping roof. Tile roof can be provided on request.
- Doors : 17/18mm thick moulded F.R.P. Door is fixed on side with SS hinges. The fixing system is trouble free. Handle and aldrop is provided.
- Windows : 2 nos. sliding powder coated aluminium windows are provided.
- Flooring : 16mm thick Eco Board covered with FRP Flooring.
- Base : The Cabin is erected on M.S. framework as base. Four 3" heavy pipes are provided as legs. The base height is 130 mm.
- Electrical Fittings : Light, fan and one 5 amps socket and telephone jack are provided. The mains can be easily connected to the plug socket provided at the back.
- Desk : A shelf like desk is provided under the window.
- Colour : Available in colour of your choice.

## ADVANTAGES OF FRP CABINS

- 1) Cabins are resistant to Humidity, Termites and Pests.
- 2) There is no rotting or corroding of the Cabin as in Wooden or Steel Cabins.
- 3) The pannels are well insulated providing a cool environment.
- 4) The Cabins are well balanced and Self supporting.



**Telephone Booth**



**Internet Kiosk**

# METAL CABINS



**Site Office**  
Size: 20' x 10' x 8'6" (ht)



**Security Cabin**  
Size: 8' x 8' x 8'6" (ht)



**Site Office**  
Size: 20' x 8' x 8'6" (ht)



**ACP cabin**  
Size: 6' x 6' x 8'6" (ht)



**Single Toilet**  
Size: 4' x 4' x 8'6" (ht)



**Ground + 1 Storey cabin**



**Multiple Toilets**  
Size: 20' x 4' x 8' (ht)



**Site Office**  
Size: 40' x 10' x 8'6" (ht)



**Security Cabin**  
Size: 4' x 4' x 8'6" (ht)

## CABIN INTERIORS



### SPECIFICATION FOR PORTABLE METAL CABIN

| Sr. No. | COMPONENTS                | DESCRIPTION                                                                                                                                                                                                                                                                                     |
|---------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Bottom Frame              | 150 mm Specially Formed CRC Channel                                                                                                                                                                                                                                                             |
| 2       | Top Frame                 | 150 mm Specially Formed CRC Channel                                                                                                                                                                                                                                                             |
| 3       | Stiffener Bottom          | Rectangular,MS Sq. Pipe                                                                                                                                                                                                                                                                         |
| 4       | Stiffener Top             | M.S. Sq. Tubes                                                                                                                                                                                                                                                                                  |
| 5       | Side Post                 | Specially formed Sections                                                                                                                                                                                                                                                                       |
| 6       | Side Wall Stiffeners      | Specially formed Channels                                                                                                                                                                                                                                                                       |
| 7       | Paneling Outside          | Specially Corrugated Sheet-1.2 mm thick                                                                                                                                                                                                                                                         |
| 8       | Internal Wall Paneling    | 8mm MDF OSL Sheet                                                                                                                                                                                                                                                                               |
| 9       | Roof Ouside               | Plain Sheet-1.2 mm thick properly Sloped and water tight.                                                                                                                                                                                                                                       |
| 10      | False ceiling             | MDF OSL Sheet                                                                                                                                                                                                                                                                                   |
| 11      | Bottom Flooring           | 18mm Cement Bonded Fibre Board with Vinyl Carpet                                                                                                                                                                                                                                                |
| 12      | Aluminium Windows         | Double Shutter Sliding Aluminium Powder Coated Windows<br>4mm Tinted Gray Glass- With safety Grills                                                                                                                                                                                             |
| 13      | Door                      | Constructed of Rigid Steel Frame and Insulated with Glass Wool<br>Door Closer, Aldrop & Handles                                                                                                                                                                                                 |
| 14      | Insulation                | Glass Wool Insulation - (Side Wall - 50mm) (Ceiling 50mm)                                                                                                                                                                                                                                       |
| 15      | Wiring                    | All wiring shall be concealed type & shall be of PVC insulated copper wire (FR Grade) of ISI- Polycab make                                                                                                                                                                                      |
| 16      | Electrical Fittings       | <ul style="list-style-type: none"> <li>• All electrical fittings in the Portable Cabin shall be 220-240 V, AC 50 Hz.</li> <li>• Tubes, Door Light, Fan, Switches, Sockets, Telephone sockets</li> <li>• Air Conditioners Point (MCB)</li> <li>• MCB At the input junction for safety</li> </ul> |
| 17      | Outside Painting          | Phosphate the Cabin and Painting with coat of Epoxy primer with Two Coats of Paint. In colour of your choice                                                                                                                                                                                    |
| 18      | Legs                      | 5 inch high Four legs at all four corners                                                                                                                                                                                                                                                       |
| 19      | Hooks                     | Specially formed Hooks for Easy lifting and Shifting                                                                                                                                                                                                                                            |
| 20      | Partition Wall (optional) | MS Pipe Stiffener with 8mm MDF OSL Sheet                                                                                                                                                                                                                                                        |

## ROOFINGS SHEETS



FRP Mangalore Tiles



FRP Chajja





# Day Light

## Standard Corrugations TO MATCH WITH

Nominal width 106.68 cm (42 <sup>1</sup>/<sub>2</sub> in)

14.60 cm (5 <sup>1</sup>/<sub>4</sub> in) 107.95 cm (3' 6 <sup>1</sup>/<sub>2</sub> in) 4.76 cm (1 <sup>5</sup>/<sub>8</sub> in)

Nominal width 109.22 cm (44")  
111.78 cm (3'-8")  
33.87 cm (13'-33") 4.44 cm (1'-34")

Nominal 66.04 cm ( 26") for 8/3" (7.62 cm.)  
width 81.28 cm ( 32") for 10/3" (7.62 cm.)  
81.28 cm ( 2 - 8<sup>12</sup> )  
7.62 cm ( 3") 1.30 cm ( 3/4")

Technical drawing of a mechanical part with dimensions in mm. The part has a total length of 1060 ± TOLERANCE. Key dimensions include a top width of 353 ± 2, a bottom width of 1126, and various step heights and radii. A note states "(All Dimensions in mm)".

Nominal width 93.3 cm (3'10 1/2")

93.3 cm (3'10 1/2")

12.7 cm (5")

3.8 cm (1 1/2")

Technical drawing of a stepped shaft. The total length is 1060 mm. The shaft has four steps. The first step has a diameter of 35 mm and a length of 195 mm. The second step has a diameter of 35 mm and a length of 195 mm. The third step has a diameter of 35 mm and a length of 195 mm. The fourth step has a diameter of 35 mm and a length of 195 mm. The distance between the first and second steps is 975 mm. The distance between the second and third steps is 3 mm. The distance between the third and fourth steps is 195 mm. The distance from the end of the shaft to the fourth step is 10 mm. The shaft is labeled 'Long Return Log'.

Diagram illustrating the dimensions and components of a corrugated metal sheet:

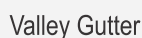
- 1006**: Total width of the sheet.
- 930 (COVER WIDTH)**: Width of the cover area.
- 76**: Width of the intermediate rib.
- 32**: Width of the stitch rivet.
- 186**: Width of the side lap.
- DIRECTION OF SHEET LAYING**: Indicated by an arrow pointing to the right.
- INTERMEDIATE RIB**: The raised portion of the sheet.
- STITCH RIVET**: The fastener used to join the sheets.
- SIDE LAP**: The overlapping edge of the sheet.

Timing diagram for ReturnLog signal. The diagram shows a periodic waveform with various time intervals labeled. The total period is 1057 + 5 mm. The 'Anti Capillary' interval is 975 + 5 mm. Other labeled intervals include 10, 32, 87, 195, 46, 107, and 23.

Diagram of a corrugated metal profile with dimensions: 1057 (total length), 975 (usable length), 195 (flange width), 49 (flange height), 32 (rib height), 87 (rib spacing), 32 (rib width).

## : Crinkle Glass Effect, Decorative cloth embedded and other special designs .

## Curve Roof Sheet



- ◆ Is available in exciting wild or soft colours with beautiful decorative embedded designs.



Kayak



Wall Hanging Booth



Fire Hose Box



Dustbin



Underground Junction Box with Cover



Tile Roof



Dustbin cum Ashtray



Cross Corrugations



Firemen Helmet



Airport Chairs



Pod Stool



Bench



Chajja

# Rawji Exports

ISO 9001 : 2008 COMPANY

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