



**FRP/GRP MANHOLE COVERS**

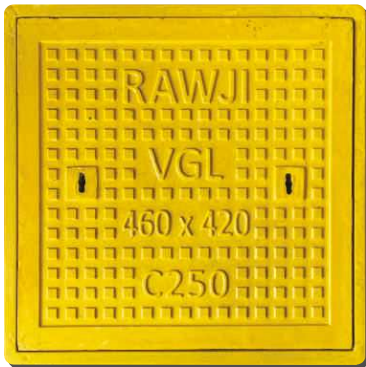
## STANDARD SPECIFICATIONS

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.

## ADVANTAGES

- No resale value hence free from theft.
- Easy to handle and no risk of injury due to lightweight.
- Does not rust due to chemical /sewage / rainwater.
- 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.
- Resistance to extreme temperatures.

## FRP / GRP MANHOLE COVERS



**SQUARE**  
600MM X 600MM



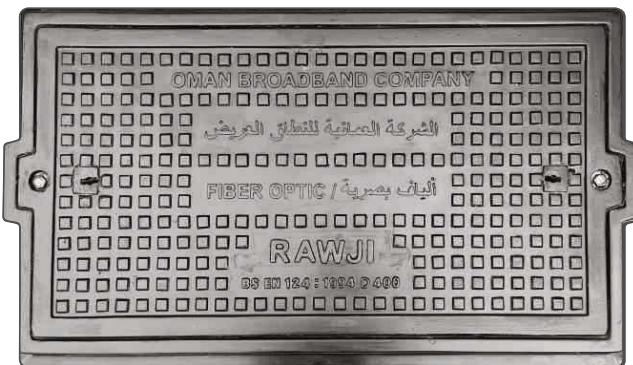
**WATER GULLY COVER**  
600MM X 600MM



**WATER GULLY COVER**  
900MM X 450MM



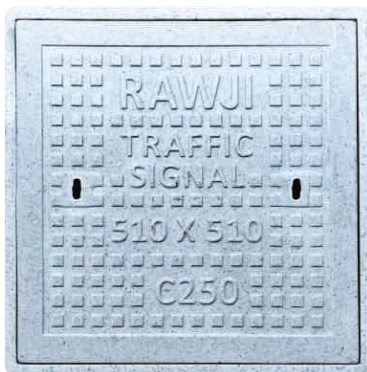
**SQUARE**  
300MM X 300MM



**EXPORT**



**SQUARE**  
450MM X 450MM



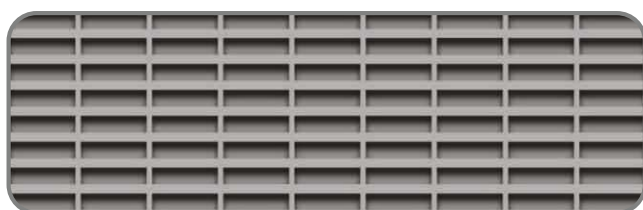
**SQUARE**



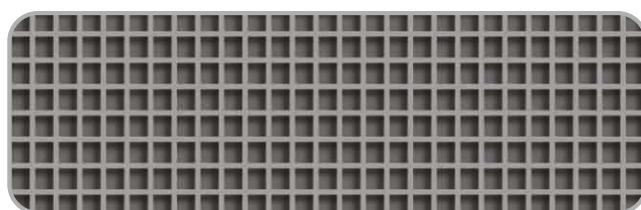
**UNDERGROUND  
WATER TANK COVER  
600MM DIA**



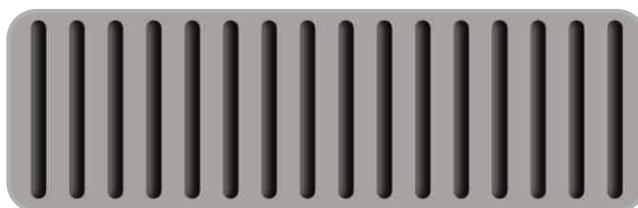
**CIRCULAR  
600MM DIA**



**PULTRUDED GRATINGS**



**MOULDED SQUARE GRATINGS**



**MOULDED GRATINGS**

## **RECOMMENDED LOAD CAPACITY AS PER IS: 1726- 1991 & EN- 124**

### **Group 1 (min Class A 15- 1.5 TON)**

Areas which can only be used by pedestrians and pedal cyclists.

### **Group 2 (min Class B 125- 12.5 TON)**

Footways, pedestrian areas and comparable areas, car parks or car parking decks.

### **Group 3 (min CLASS C 250- 25 TON)**

For gully tops installed in the area of kerbside channels of roads which when measured from the kerb edge extends a maximum of 0.5 m into the carriageway and a maximum of 0.2 m into the footway.

### **Group 4 (min CLASS D400- 40 TON)**

Carriageways off roads (including pedestrian streets) hard shoulders and parking areas for all types of road vehicles.

### **Group 5 (min CLASS E 600- 60 TON)**

Areas imposing high wheel loads eg.: docks aircraft pavements.

### **Group 6 (CLASS F 900- 90 TON)**

Areas imposing particularly high wheel loads, eg.: aircrafts pavements.



## PRODUCT TYPE AND SIZES

### CIRCULAR MANHOLE COVER WITH FRAME

| in mm   | in inches |
|---------|-----------|
| 530 Dia | 21" Dia   |
| 600 Dia | 24" Dia   |

### RECTANGULAR MANHOLE COVER WITH FRAME

| in mm     | in inches |
|-----------|-----------|
| 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

| in mm     | in inches |
|-----------|-----------|
| 300 X 300 | 12" X 12" |
| 450 X 450 | 18" X 18" |
| 600 X 600 | 24" X 24" |
| 900 X 900 | 36" X 36" |

### WATER TANK COVER

| in mm   | in inches |
|---------|-----------|
| 600 Dia | 24" Dia   |

### GULLY GRATINGS WITH FRAME

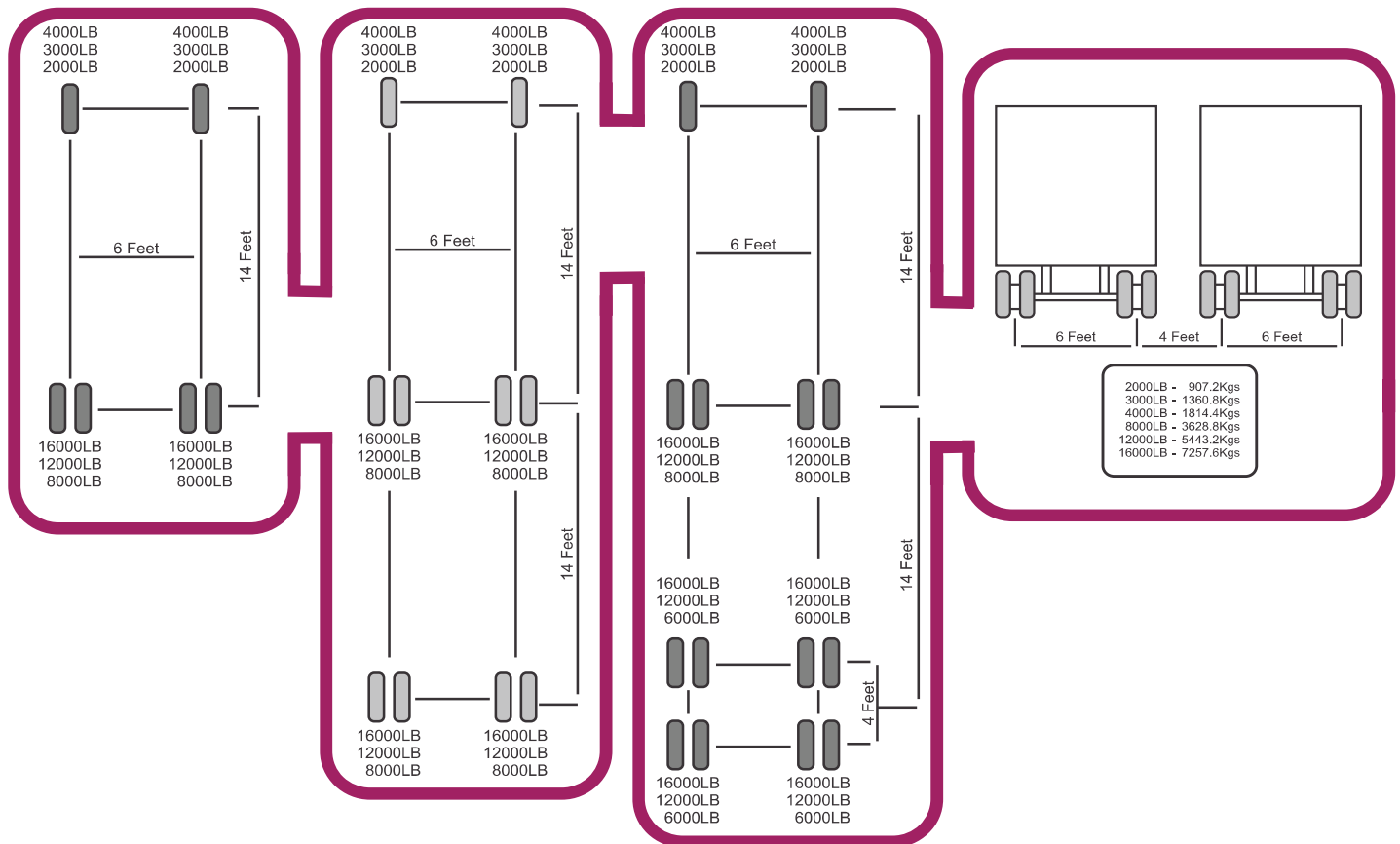
| in mm     | in inches |
|-----------|-----------|
| 450 X 450 | 18" X 18" |
| 450 X 600 | 18" X 24" |
| 600 X 600 | 24" X 24" |

**CUSTOM SIZES AVAILABLE ON REQUEST**

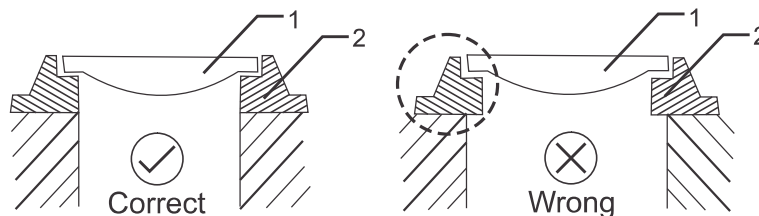
## FRP MANHOLE COVERS COMPARISON TABLE

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

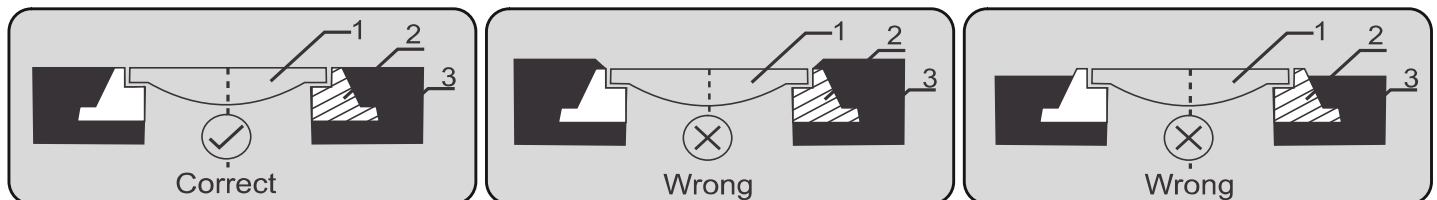
## LIVE LOAD SPACING AS PER ASTM C 857



## INSTALLATION PROCEDURE



Please note that frame is not load bearing and therefore has to be completely supported from all sides



1. Manhole Cover / Grating 2. Frame 3. Concrete - Road level

## APPROVALS



## CERTIFICATIONS

एम एस ई परीक्षण केन्द्र, भारत सरकार, सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, मुम्बई - 400 072  
MSME Testing Centre, Govt. of India, Min. of MSME, Mumbai - 400 072

**टेस्ट रिपोर्ट / Test Report**

रिपोर्ट नं./Report No. : MSMETC-WR/MT/165/03/2021-22

सैंपल - विवरण / Sample Description : FRP Manhole Cover with Frame 600 X 600 mm

मात्रा /Quantity : 01 no.

किया गया परीक्षण / Test Conducted : Marking, Load Test 25Ton, Breaking Load Test

परीक्षण विधि / Test Specification : As per customer's specification

मानक का संशोधन, यदि कोई हो / Amendment of Standards, if any : Nil

परीक्षण प्रारंभ दिनांक / Test Commencement Date : 04.03.2022

परीक्षण पूरा होने का दिनांक / Test Completion Date : 04.03.2022

**अवलोकन / Observations**

| क्र.सं. / S. No. | परीक्षण विवरण / Test Description | मानक विधि / Standard Specification                     | परीक्षण परिणाम / Test Results                                 | टिप्पणी / Remarks |
|------------------|----------------------------------|--------------------------------------------------------|---------------------------------------------------------------|-------------------|
| 1.               | Load Test, 25MT                  | Shall withstand a compressive load of 25MT for 30 sec. | Sample withstood a compressive load of 25 Ton for 30 seconds. | Satisfactory      |
| 2.               | Breaking Load Test               | ---                                                    | Breaking load observed 31 Ton                                 | ---               |
| 3.               | Marking                          | Shall be duly marked                                   | Sample observed to be marked as "GGL GAS RAWJI C250"          | Satisfactory      |

General Remarks: - The sample meets the requirement of customer's specification with respect to the test carried out above.

द्वारा जारी / Issued by: 

प्रमाणित हस्ताक्षर / Authorized Signatory: 

**Certificate of Registration**

ROHS

This is to Certify That The Quality Management System of

**RAWJI EXPORTS**

UNIT 1: SURVEY NO. 139/PAIKI, OPP. HOLLY MERRY HIGH SCHOOL, RAHANAL VILLAGE BHIWANDI, DIST. THANE - 421302, MUMBAI, MAHARASHTRA, INDIA

UNIT 2: GALA NO. 52, 2ND FLOOR, MANISH INDUSTRIAL ESTATE NO. 5, VILLAGE - NAVGHAR, TAL. VASAI (EAST), DIST. THANE - 401 208, MUMBAI, MAHARASHTRA, INDIA

has been assessed and found to conform to the requirements of

**ISO 9001:2015**

for the following scope :

MANUFACTURE AND SUPPLY OF FIBER GLASS REINFORCED PLASTIC PRODUCTS AND PRE FAB CONTAINER CABINS.

Certificate No. : 22DQU46

Initial Registration Date : 07/05/2022

Date of Expiry : 06/05/2025

1st Surve. Due : 07/04/2023

Issuance Date : 07/05/2022

2nd Surve. Due : 07/04/2024

**QUALITY MANAGEMENT SYSTEM**

**ROHS Certification Pvt. Ltd.**

ROHS

IAF

elaci

CB-QMS-035

## OUR OTHER PRODUCTS

### FRP MOULDED DOORS



### FRP CABINS



### METAL PREFABRICATED CABINS





## **RAWJI EXPORTS**

Survey No 139, Paiki , Opp. Holy Merry High School,  
Village Rehnal , Bhiwandi, Dist. Thane 421 302.Maharashtra.

Phone : +91 8669997712 | 8669997713  
Email : salesfg@rawji.com | kumar@rawji.com  
Website: www.rawji.com