

# FIBROTECH

India's Leading  
Manufacturer of FRP Products.

[www.fibrotechfrp.com](http://www.fibrotechfrp.com)

**MANHOLE COVERS**

**WATER GULLY COVERS**

**RECESS COVERS**

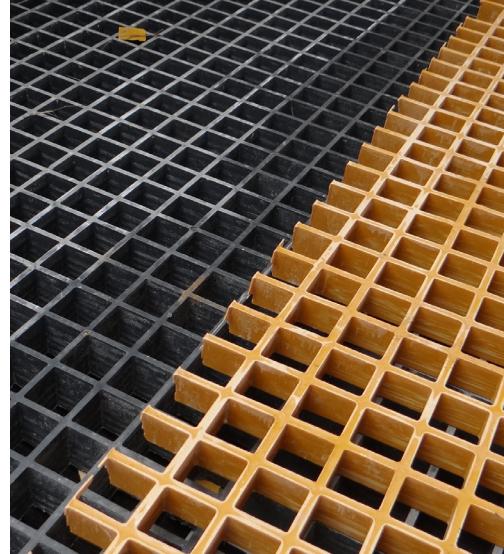
**GRATINGS**

**BENCHES**

**FRP CRASH GUARD**

**PLANTERS**

**RAILINGS**



## ABOUT FIBROTECH

The Fibrotech team is dedicated to delivering top-tier, custom-engineered solutions leveraging the robust capabilities of Fiber Reinforced Polymer (FRP) composites. Our commitment ensures that our clients gain access to products that are not only **lightweight and exceptionally strong** but also exhibit superior corrosion resistance and longevity.

We harness the collective expertise of multiple technologies, formulations, sectors and materials to push the boundaries in composite design and cutting-edge manufacturing techniques. Our comprehensive services extend beyond product delivery. We engage in designing, consulting, and producing tailor-made products while offering strategic solutions for diverse FRP projects, **ensuring that our clients' unique needs are met with precision and excellence**. Our FRP products are more than just products; they are the keystones of robust infrastructure, **designed to excel in the face of extreme weather, corrosive elements, and demanding load conditions**.



**ANTI CORROSION**  
HIGH STRENGTH



**NON CONDUCTIVE**  
GOOD ELECTRICAL INSULATION



**U.V. RESISTANT**  
EASY TO INSTALL



**NON TOXIC**  
LOW THERMAL CONDUCTIVITY

# Our Premier Product Range

## Elite Manhole Covers

Our manhole covers, available in both perforated and non-perforated models, are engineered for unmatched durability. They are the perfect fit for sewage systems, rainstorm drains, and urban pathways, offering strength and reliability where it matters most.

## Advanced Drainage Systems

We specialise in surface drain channels that efficiently manage rainwater and wastewater, designed for optimal flow and ease of maintenance.

## Robust Gully Covers

Tailored for storm drains, these covers offer unparalleled resistance to environmental stressors, ensuring long-lasting performance.

## Multi-Purpose Gratings

Our gratings are a testament to versatility, suitable for various applications from catch basins to architectural features like stairways and balconies and for solar walkways.

## Decorative & Functional Accents

From stylish Light poles, planter pots, boxes and FRP Benches to intricate meshes ("jali") and practical cages, our products blend functionality with aesthetic appeal.

## FRP Applications & Benefits

1. Refineries
2. Offshore Platforms
3. Oil & Gas Industry
4. Effluent Treatment Plants
5. Power Plants
6. Electricity Distribution
7. Manufacturing
8. Aerospace & Aeronautical
9. Marina & Shipping
10. Foot Bridges
11. Swimming Pools
12. Construction
13. Outdoor Construction Panels
14. Mobile towers & structures
15. Switchgear industries  
(operating rods, links, etc.)
16. Construction industries  
(bearing members, supports, etc.)
17. Landscape decorative  
(bench strips, light poles)
18. Transformer industries  
(spacers, runners, coil winders etc)
19. Chemical industries  
(handrails, ladders, walkways, etc.)
20. Construction of cooling towers
21. Tank/reactor stiffeners, girders, agitator/motor mounting on reactors
22. Metro rail, smart city projects, corporations, municipalities (BWSSB, KUWS&DB, MJP)

# MANHOLE COVERS

Our state-of-the-art FRP manhole covers are crafted using superior resin technology and manufactured on world-class automatic machines.



Our commitment to excellence is evident in every product, with each cover being a testament to the precision of modern engineering.



## Key Features:

### Advanced Resin Technology:

Utilising cutting-edge resin technology contributes to the robustness and longevity of the covers, setting a new benchmark in the industry.

### Thermoset Composition:

This material is meticulously designed for extended endurance that withstands the test of time, retaining its structural integrity and functionality even under strenuous conditions.

### Lightweight:

Despite being lightweight, our manhole covers are built to endure the rigorous wear and strain of automotive traffic. This unique combination of lightness and strength ensures easy handling without compromising on durability.

### Uncompromising Quality Standards:

At FibroTech, rigorous compliance with exceptionally high standards is not just a promise, but a practice. We maintain strict quality control to ensure that each manhole cover meets international benchmarks of excellence.

### Versatility in Application:

Perfectly suited for diverse environments, our manhole covers are the ideal choice for residential areas, bustling roadways, and industrial landscapes alike. Their versatility makes them adaptable to various urban settings.



ANTI CORROSION



LONG LASTING



COST EFFECTIVE



HIGH STRENGTH TO WEIGHT RATIO



# GULLY COVERS

Advanced Drainage Solutions & Manhole Covers for Enhanced Urban Infrastructure

## Revolutionizing Drainage Gullies:

At Fibrotech FRP, we recognize the critical role of efficient drainage systems in urban planning. Our drainage gullies are engineered to expertly manage rainwater and greywater, crucial for preventing system blockages and potential flooding. By facilitating effective water flow, our gullies ensure that drainage systems operate smoothly, safeguarding urban areas from water-related issues.

## Key Advantages of Fibrotech Drainage Gullies:

- Effective Water Management:** Designed to handle high volumes of water, reducing the risk of overflows and flooding.
- Durable and Reliable:** Crafted using our innovative molecular bonding technology, ensuring long-term performance in various environmental conditions.
- Low Maintenance:** Our gullies are designed for ease of maintenance, saving time and resources for urban infrastructure management.
- Various Sizes and tonnages
- Ease of Application
- Aesthetic Appeal
- No sound of car movement compared to CI Gully Covers



ANTI CORROSION



MULTIPLE COLOURS



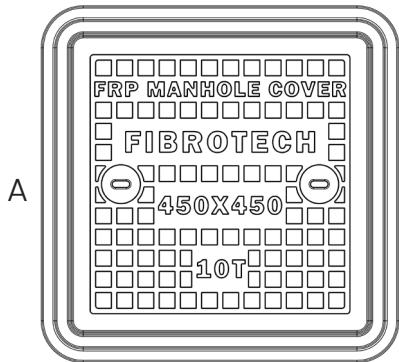
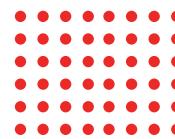
COST EFFECTIVE



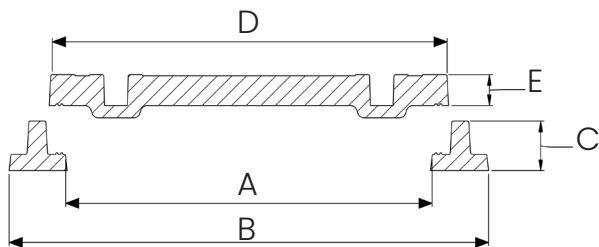
HIGH STRENGTH TO WEIGHT RATIO



In choosing FibroTech, you are opting for a product that brings together technological innovation, unmatched durability, and a commitment to quality. Our FRP manhole covers are not just components of infrastructure; they are symbols of our dedication to advancing urban development with superior, reliable solutions.



A



A: Clear Opening  
 B: End to End Frame  
 C: Frame Height  
 D: Cover Size  
 E: Cover Thickness

## LOAD CLASSIFICATION



**Class A**

10 kN  
Extra Light Duty

2.5 T



**Class B**

80 kN  
Light Duty

5 T



**Class C**

150 kN  
Medium Duty

10 T / 12.5 T



**Class D**

210 kN  
Heavy Duty

25 T

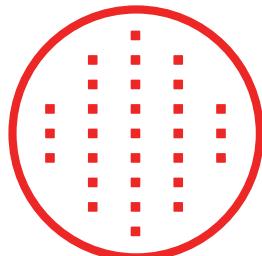


**Class E**

400 kN  
Extra Heavy Duty

40 T

## OUR AVAILABLE PRODUCTS & SIZES

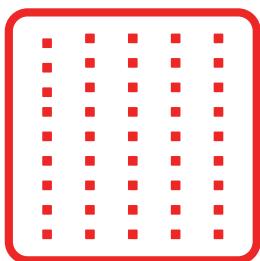


### CIRCULAR MANHOLE COVERS

Clear Opening Sizes:

Size in MM:	Size in Inches:	Size in Feet:	Pedestrain Load (ELD - 2.5 T)
DIA 450	18 in	1.5 ft	2 Wheeler Light Vehicle (LD - 5 T)
DIA 600	24 in	2 ft	4 Wheeler Tempo Load (MD - 10 T)
DIA 900	36 in	3 ft	Truck Trailer Load (HD - 25 T)
			Fire Engine Load (EHD - 40 T)

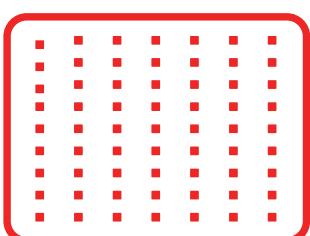
## SQUARE MANHOLE COVERS



### Clear Opening Sizes:

Size in MM:	Size in Inches:	Size in Feet:	
300x300	12x12 in	1x1 ft	Pedestrain Load (ELD - 2.5 T)
450x450	18x18 in	1.5x1.5 ft	2 Wheeler Light Vehicle (LD - 5 T)
600x600	24x24 in	2x2 ft	4 Wheeler Tempo Load (MD - 10 T)
750x750	30x30 in	2.5x2.5 ft	Truck Trailer Load (HD - 25 T)
900x900	36x36 in	3x3 ft	Fire Engine Load (EHD - 40 T)
1000x1000	40x40 in	3.4x3.4 ft	

## RECTANGULAR MANHOLE COVERS



### Clear Opening Sizes:

Size in MM:	Size in Inches:	Size in Feet:	
450x300	18x12 in	1.5x1 ft	Pedestrain Load (ELD - 2.5 T)
600x450	24x18 in	2x1.5 ft	2 Wheeler Light Vehicle (LD - 5 T)
600x900	24x36 in	2x3 ft	4 Wheeler Tempo Load (MD - 10 T)
900x450	36x18 in	3x1.5 ft	Truck Trailer Load (HD - 25 T)
			Fire Engine Load (EHD - 40 T)

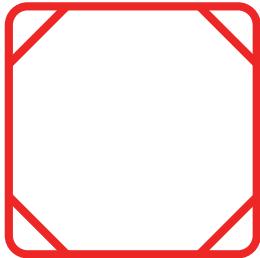
## GULLY GRATING MANHOLE COVERS



### Clear Opening Sizes:

Size in MM:	Size in Inches:	Size in Feet:	
300x300	12x12 in	1x1 ft	Pedestrain Load (ELD - 2.5 T)
450x450	18x18 in	1.5x1.5 ft	2 Wheeler Light Vehicle (LD - 5 T)
600x500	24x20 in	2x1.7 ft	4 Wheeler Tempo Load (MD - 10 T)
600x600	24x24 in	2x2 ft	Truck Trailer Load (HD - 25 T)
900x900	36x36 in	3x3 ft	Fire Engine Load (EHD - 40 T)

## RECESS COVERS



### Clear Opening Sizes:

Size in MM:	Size in Inches:	Size in Feet:	
300x300	12x12 in	1x1 ft	Pedestrain Load (ELD - 2.5 T)
450x450	18x18 in	1.5x1.5 ft	2 Wheeler Light Vehicle (LD - 5 T)
600x600x 30/40			4 Wheeler Tempo Load (MD - 10 T)
			Truck Trailer Load (HD - 25 T)
			Fire Engine Load (EHD - 40 T)

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## COMPARISON CHART

	FRP	CI	RCC
Life Span	High	Moderate	Low
Strength / Weight Ratio	Very High	Moderate	Very Low
Cost	Moderate	Moderate	Low
Scrap Value	Nil	High	Low
Handling	Easy	Difficult	Difficult
Thermal Expansion	Nil	High	Negligible
Corrosion Resistance	High	Medium	Low
Color Range	●	●	●
Logo Embossing	✓	✗	✗
Custom Size	✓	✗	✗
Abrasion Resistance	✓	✗	✗

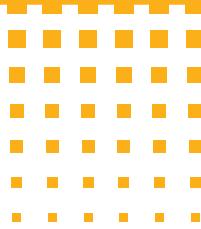


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# HARDWARE MANHOLE COVERS

Revolutionizing  
Manhole Covers for  
India's Commercial &  
Residential Sectors



Fibrotech FRP's commitment to excellence is evident in every manhole cover we produce. By choosing our products, you are not only selecting a superior manhole cover but also contributing to safer, more efficient, and forward-thinking urban environments.



## Key Features:



### Advanced Molecular Bonding:

Utilizing the latest in molecular bonding technology, Fibrotech FRP's manhole covers boast unparalleled strength, ensuring long-term durability and resilience.



### High Strength to Weight Ratio:

Our covers are exceptionally strong yet surprisingly lightweight, facilitating easier handling and installation, reducing labor costs and enhancing safety.



### Cost-efficiency:

Designed with both quality and economy in mind, these manhole covers represent a smart investment, offering superior performance without the premium price tag.



### Locking Facility Option:

For added security, especially crucial in residential areas, our manhole covers come with an optional locking mechanism. This feature provides an extra layer of safety, safeguarding households and communities against unauthorized access.

Fibrotech FRP is at the forefront of manhole cover technology, bringing to the Indian market a groundbreaking solution tailored for both commercial and residential applications. Our state-of-the-art manhole covers are a testament to innovation and efficiency, crafted in a fully automated plant that harnesses molecular-level bonding technology. This cutting-edge approach ensures our covers not only meet but exceed industry standards in strength and durability, all while maintaining an optimal strength-to-weight ratio.



## Benefits of Commercial Grade

- Perfect for small houses and inside houses
- Provides Alternate solution to cast iron
- Easy Installation
- No need of extra labour costs such as welding costs during installations
- Locking facility available
- Rust Free
- Multiple Colours available

### Sizes We Make:

Size in MM:	Size in Inches:	3 Ton	5 Ton	Single Lock	Double Lock
250x250	10x10 in	∅	∅	∅	∅
300x300	12x12 in	∅	∅	∅	∅
375x375	15x15 in	∅	∅	∅	∅
450x300	18x12 in	∅	∅	∅	∅
450x450	18x18 in	∅	∅	∅	∅
530x530	21x21 in	∅	∅	∅	∅
600x300	24x12 in	∅	∅	∅	∅
600x450	24x18 in	∅	∅	∅	∅
600x600	24x24 in	∅	∅	∅	∅
710x525	28x21 in	∅	∅	∅	∅
450x750	18x30 in	∅	∅	∅	∅
710x710	28x28 in	∅	∅	∅	∅
750x600	30x24 in	∅	∅	∅	∅
750x750	30x30 in	∅	∅	∅	∅
900x450	36x18 in	∅	∅	∅	∅
900x600	36x24 in	∅	∅	∅	∅
900x900	36x36 in	∅	∅	∅	∅

# RECESS COVERS

Setting the benchmark for quality, durability & innovative design in the industry.



## Exceptional Quality and Load Capacity:

Discover excellence with Fibrotech FRP's FRP Recess Manhole Cover, a testament to our commitment to superior products. As a leading manufacturer of recess manhole covers, we take pride in offering covers with a remarkable load capacity ranging from 2.5 to 40 tons. These covers are available in variable sizes, catering to diverse infrastructure needs.

## Key Features:

- Load Capacity: 2.5 to 40 tons
- Variable Sizes: Tailored to diverse infrastructure requirements
- Non-Brittle Construction: Ensures durability and resistance to breakage
- Lightweight Design: Superior to conventional materials
- Water-Tight Seal: Manufactured using high-grade fiber for effective coverage

## Non-Brittle and Lightweight Design:

Our FRP Recessed covers stand out for their non-brittle composition, ensuring durability and resistance to breakage. The use of advanced FRP materials makes these covers significantly lighter and superior compared to conventional materials.

## Effective Solution for Manhole Covering:

Engineered for efficiency, our FRP Recessed covers provide an effective solution for covering manholes and other underground openings. Crafted from high-grade fiber material, these covers form a water-tight seal, ensuring optimum performance in diverse environmental conditions.



## MOLDED GRATINGS

Revolutionize Your Infrastructure  
with Fiberglass Reinforced  
Plastic (FRP) Gratings



### Lightweight, Durable, and Slip-Resistant:

Discover the superior qualities of FRP gratings, crafted from fiberglass-reinforced plastic. These gratings are not only lighter but also more durable and boast exceptional slip resistance compared to alternative materials.



### Cost-Effective Long-Term Solution:

Choosing FRP gratings proves to be a wise investment in the long run. Their cost-effectiveness surpasses that of stainless steel (SS) or other metal gratings, making them an economical choice for sustainable projects.



### Ideal for Industrial Spaces & Working Platforms:

Engineered for strength and weight-bearing capabilities, FRP gratings emerge as a prime solution for industrial buildings, on-site working platforms, and maintenance pathways. Their robust construction ensures reliability in demanding environments.



### Low Maintenance, High Impact Resistance:

Experience the convenience of virtually maintenance-free FRP gratings. With minimal need for painting, these gratings retain their pristine appearance. Moreover, high-impact circumstances won't permanently distort them, ensuring lasting performance.



### Corrosion Resistance for Outdoor Excellence:

Embrace the outdoors confidently with FRP gratings. Highly resistant to corrosion, they thrive in locations with high humidity or moisture levels. Their corrosion resistance not only enhances durability but also ensures a safer alternative to traditional metal gratings.

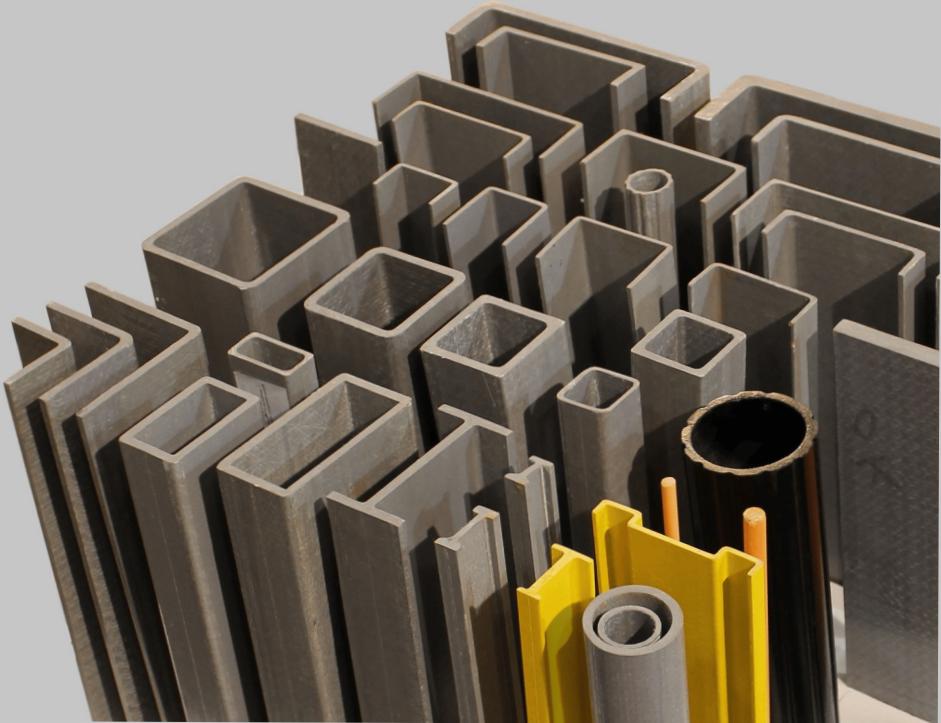
#### Sizes We Make:

THICKNESS	WIDTH	LENGTH
15 MM	1220 MM	4000 MM
25 MM	1220 MM	4000 MM
38 MM	1220 MM	4000 MM
50 MM	1220 MM	4000 MM



# PULTRUTED PRODUCTS

Redefining FRP Composites



## Unveiling Pultrusion Excellence:

At Fibrotech FRP, we embrace the cutting-edge manufacturing process known as pultrusion, a technique dedicated to crafting continuous lengths of Fiber Reinforced Polymer (FRP) composites with consistent cross-sections. This state-of-the-art process stands out for its cost-effectiveness and remarkable efficiency, positioning it as an attractive choice across diverse applications.

## Pultruded Profiles: A Leap Beyond Standard Metal Shapes:

Our pultruded composite shapes, also known as profiles, mirror the performance characteristics of traditional metal shapes. However, they elevate expectations by offering distinct advantages over conventional materials. Fibrotech FRP takes pride in pushing the boundaries of what's possible with pultrusion technology.

## Understanding the Pultrusion Process:

Delve into the heart of innovation as we demystify the pultrusion process. It involves the creation of continuous FRP composites with consistent cross-sections, ensuring precision and reliability. The efficiency of pultrusion translates into cost-effective solutions that meet the demands of various industries.

## Key Benefits:

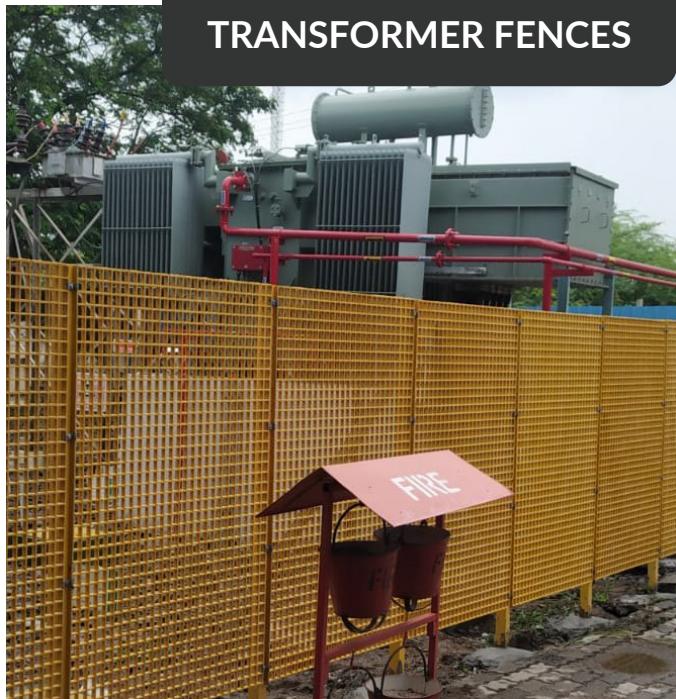
- Cost-Effectiveness: Achieve superior results without compromising your budget.
- Consistent Cross-Sections: Precision-engineered profiles for reliability and performance.
- Similar Performance to Metal Shapes: Enjoy the performance characteristics of standard metal shapes.
- Enhanced Advantages over Conventional Materials: Elevate your projects with FRP composites that outshine traditional materials.



WE ALSO MAKE  
& PROVIDE //



TRANSFORMER FENCES



CRASH BARRIER



# CERTIFICATIONS



**TEST REPORT ON FRP MANHOLE SAMPLE**

Report No.: BVPL/SPJ/BH/2012/8/2022  
Date: 26.08.2022  
Page: 1 of 1

Customer's Reference : Letter No A/PFL/BVPL/050/2022-23 Dated 22.08.2022  
Condition of samples : Samples received  
UIN : 2203554  
Project : FRP Manhole Frame and Cover  
Sample Dimension # : 600x600mm  
Identification : Smart City Mangalore-2.3T-Fibro Tech(600 x 900)  
Date of test : 26.08.2022  
Test Method : Laboratory Developed Method

**DIMENSIONAL CHECK :**

Sl. No.	Particulars	Measurements (Averag)
COVER :		
1	Size (mm)	953 x 600
2	Distance Between End to Hook (mm)	70
3	Thickness (mm)	43
FRAME :		
1	Opening (mm) Bottom	909 x 562 895 x 593
2	Depth (mm)	38
3	Setting (mm)	50
4	Base Width (mm)	86
5	Wall Thickness (mm)	18

**TEST CONDUCTED :**

Sl. No.	Test Conducted	Load applied (Tons)	Remarks
1	Load Test (ton)	2.5	No Cracks Observed on Cover and Frame

# As furnished by the customer  
Note: 1. The results relate only to the items tested.  
2. Report shall not be reproduced except in full, without the written approval of the lab.  
3. Report is valid for one year from the date of issue.

for BUREAU VERITAS (INDIA) PRIVATE LIMITED  
Construction Services Laboratory

S. Kumaraswamy  
Signature

\*\*END OF THE REPORT\*\*

Bureau Veritas India Private Limited  
Construction Services Laboratory  
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Highway, Chembur, Mumbai - 400082, India  
Tel: +91 80 23018800 | Fax: +91 80 20798823  
e-mail: bvtmumbai@bvtmumbai.com

Or Lab : Vizianagaram, Andhra Pradesh, India  
Bhopal, Chennai, Cochin, Gurgaon  
Ahmedabad, Mumbai - 400023, INDIA  
Dibrugarh, Guwahati, Jorhat, Kohima, Nagaland, Panipat, Silvassa, Srinagar, Nagpur, Nashik, Pune, Raipur, Ratnagiri, Trivandrum, Vizag, Visakhapatnam

**TEST REPORT**

Report For : FRP Manhole Cover  
Report No : 2300 3347  
Date : 11-07-2023  
Page : 2 Total No. of Pages : 2

Ministry of Micro, Small & Medium Enterprises  
एमएसएमई परीक्षण केंद्र  
MSME TESTING CENTRE  
फैब्री - 600 032 | CHENNAI - 600 032

**TEST REPORT**

Description of Sample : FRP Manhole Cover - 600X600mm, 40T  
Identification : ---

**TEST RESULTS**

1. Load Test : Withstood the Load of 40T for 30 sec and No crack Observed.

**Environmental Condition**

Temperature	: Ambient
Humidity	: Ambient
Date of testing	: 30.06.2023
Type of test	: Load Test
Procedure followed	: IS: 12592-2002
Tested by	: S.Sadamadhavan

-End Of the Report-

G.V.Ramgopal  
G.V.Ramgopal  
Assistant Director (Met.)  
Authorized Signature

651, ஓர் மீட்டர் ரோட், பிள்ளை, கெள் - 600 032 | 651, G.S.T. Road, Guindy, Chennai - 600 032  
Phone : 044-2250 0634, +91 9445662299, e-mail : coll-dtct-sr@commerce.gov.in / dtct-sr@commerce.gov.in

**TEST REPORT**

Report For : FRP Water Gully Cover  
Report No : 2300 3319  
Date : 11-07-2023  
Page : 2 Total No. of Pages : 2

Government of India  
Ministry of Micro, Small & Medium Enterprises  
एमएसएमई परीक्षण केंद्र  
फैब्री - 600 032 | CHENNAI - 600 032

**TEST REPORT**

Description of Sample : FRP Water Gully Cover – 600x600mm, 40T  
Identification : ---

**TEST RESULTS**

1. Load Test : Withstood the Load of 40T for 30 sec and No crack Observed.

**Environmental Condition**

Temperature	: Ambient
Humidity	: Ambient
Date of testing	: 10-06-2023
Type of test	: Load Test
Procedure Followed	: IS: 12592-2002
Tested by	: S.Sadamadhavan

-End Of the Report-

G.V.Ramgopal  
G.V.Ramgopal  
Assistant Director (Met.)  
Authorized Signature

651, ஓர் மீட்டர் ரோட், பிள்ளை, கெள் - 600 032 | 651, G.S.T. Road, Guindy, Chennai - 600 032  
Phone : 044-2250 0634, +91 9445662299, e-mail : coll-dtct-sr@commerce.gov.in / dtct-sr@commerce.gov.in

**TEST REPORT**

Report For : FRP Manhole Frame With Cover  
Report No : 2300 3309  
Date : 12-06-2023  
Page : 2 Total No. of Pages : 2

Ministry of Micro, Small & Medium Enterprises  
एमएसएமई परीक्षण केंद्र  
फैब्री - 600 032 | CHENNAI - 600 032

**TEST REPORT**

Description of Sample : FRP Manhole Frame With Cover 900X900mm, 25T  
Clear Opening - 900X900, Cover Size - 900X900  
Frame Size : 1118X1110  
Identification : FIBROTECH

**TEST RESULTS**

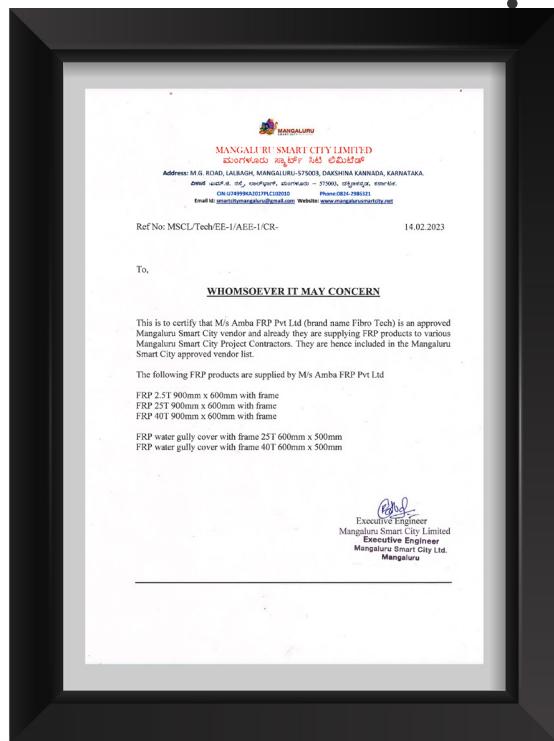
1. Load Test : Withstood the Load of 25 T for 30 sec and No crack Observed.

**Environmental Condition**

Temperature	: Ambient
Humidity	: Ambient
Date of testing	: 12-06-2023
Type of test	: Load Test
Procedure Followed	: IS: 12592-2002
Tested by	: S.Sadamadhavan

G.V.Ramgopal  
G.V.Ramgopal  
Assistant Director (Met.)  
Authorized Signature

651, ஓர் மீட்டர் ரோட், பிள்ளை, கெள் - 600 032 | 651, G.S.T. Road, Guindy, Chennai - 600 032  
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### Corporate Office

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