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FRP MANHOLE COVER

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WHAT IS FRP ?

FIBRE-REINFORCED POLYMER (FRP)

Is A Composite Material Made Of A Polymer Matrix Reinforced With Fibers? The Fibers Are Usually Glass Fibers, The Polymer Is Usually An Epoxy, Vinyl ester Or Polyester Thermosetting Plastic, And Phenol-Formaldehyde Resins Are Still In Use. FRP Are Commonly Used In The Aerospace, Automotive, Marine, Construction Industries And Ballistic Armor.

COMPRESSION MOULDING

When The Raw Material Containing Reinforced Fibers Are Compressed & Molded At Certain Pressure & Temperature The Final Outcome Would Be Called A Frp Molded Product, Which Qualifies It As A Fibre-reinforced Polymer. More Typically The Polymer Preform used In Compression Molding Does Contain Reinforcing Fibers. In Compression Molding, A "preform" Or "charge", Of SMC, BMC Is Placed Into Molding Cavity, The Mold Is Closed And The Material Is Formed & Cured Inside By Pressure And Heat. Compression Molding Offers Excellent Detailing For Geometric Shapes Ranging From Pattern And Relief Detailing TO Complex Curves And Creative Forms, To Precision Engineering All Within A Maximum Curing Time Of 20 Minutes.

ADVANTAGES AND LIMITATIONS

FRP Allows The Alignment Of The Glass Fibres To Suit Specific Design Programs. Specifying The Orientation Of Reinforcing Fibres Can Increase The Strength And Resistance To Deformation Of The Polymer. Glass Reinforced Polymers Are The Strongest And Most Resistive To Deforming Forces When The Polymers Fibres Are Being Exerted With A Parallel Force.



FRP MANHOLE COVER

our FRP Manhole Cover comes With A Better Performance Than Cast Iron, Ductile Iron And RCC Manhole Cover , This Product Is An Industrial Revolution. They Have Been Thoroughly Tested As Per Bsen 124, Standards For Drainage And Utility Services. FRP Manhole Cover Meet All The Requirement Of The Code . Our Cover Are Available In All Standard Sizes With Load Bearing Capacity Ranging Form2.5 Ton To 5 Ton Circular, Square And Rectangular Are The Most Common Shapes Used Today.

A high-contrast, black and white photograph of a person running on a dark asphalt surface. The person's legs and feet are visible in the upper right corner, wearing dark clothing and sneakers. A long, dark shadow of the person is cast across the asphalt, extending from the bottom left towards the center. The shadow's hand is positioned directly over a manhole cover, which is a circular feature in the pavement. The overall scene suggests a sense of urgency or a race.

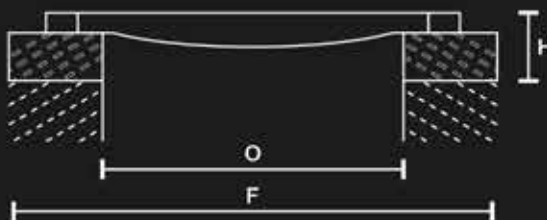
**MOST
TRUSTABLE
FRP
MANHOLE
COVER**

DEFINITION OF STAENGTH



RECTANGLE MANHOLE COVER

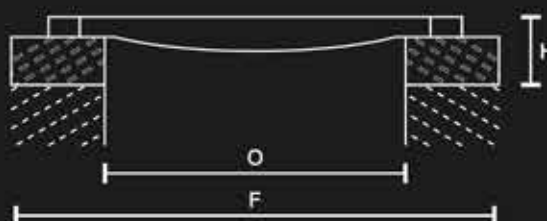
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colours available



Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx.)
Inch	MM	Inch	MM	In Ton	In Kg
12"X 18"	310 x 450	10" x 14.5"	250 x 365	5	4.5



colours available



Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx.)
Inch	MM	Inch	MM	In Ton	In Kg
18"X 24"	460 x 610	14.5"X 20"	365 x 510	5	11



RECTANGLE MANHOLE COVER

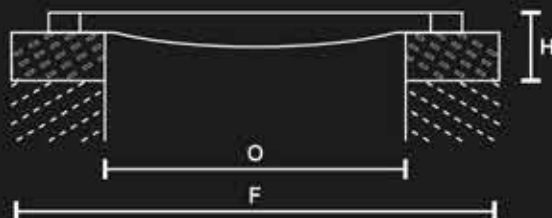
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colours available



Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
18"X 36"	460 x 915	14.5" x 32"	365 x 810	5	16



colours available

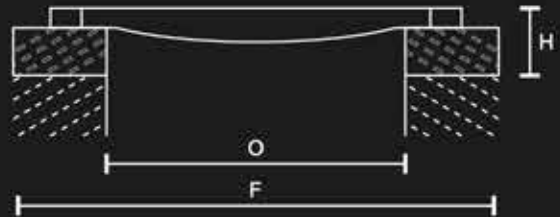


Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
24"X 36"	610 x 910	20"X 32"	510 x 810	5	27



SQUARE MANHOLE COVER

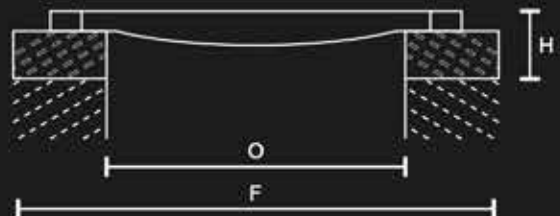
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colours available



Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
10"X 10"	270 x 270	8" x 8"	210 x 210	5	2.5



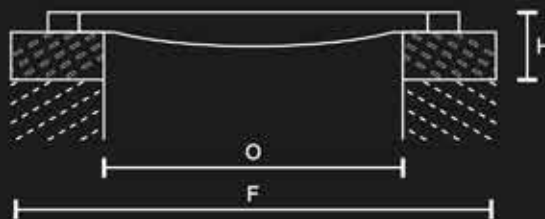
colours available



Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
12"X 12"	310 x 310	10"X 10"	250 x 250	5	3.2

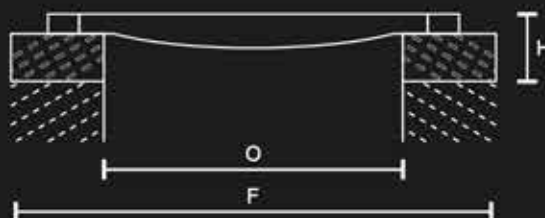
SQUARE MANHOLE COVER

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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
15"X 15"	380 x 380	12" x 12"	250 x 250	5	3.2

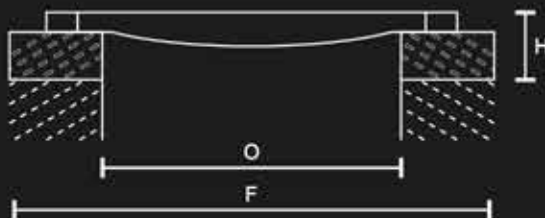


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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
18"X 18"	460 x 460	14.5"X 14.5"	365 x 365	5	7.5

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**SQUARE
MANHOLE COVER**

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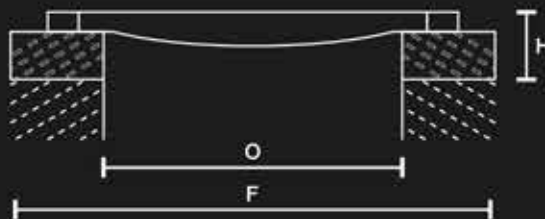
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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
21"X 21"	535 x 535	18"X 18"	450 x 450	5	11

SQUARE MANHOLE COVER

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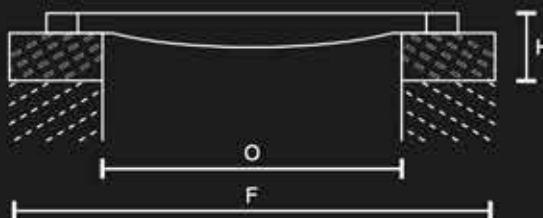
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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
24"X 24"	610 x 610	20"X 20"	510 x 510	5	15

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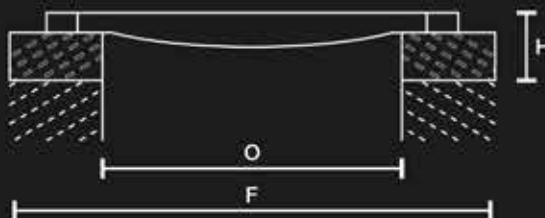
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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
28"X 28"	710 x 710	24"X 24"	610 x 610	5	25

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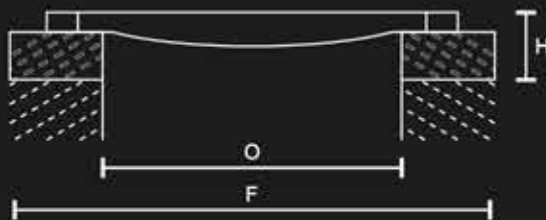
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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
30"X 30"	760 x 760	26.5"X 26.5"	675 x 675	5	28

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**SQUARE
MANHOLE COVER**

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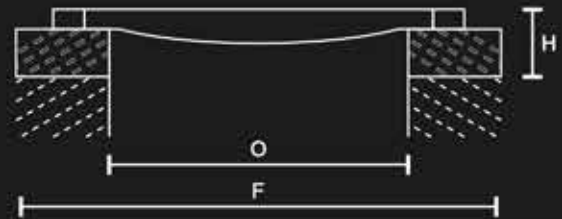
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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
36"X 36"	915 x 915	32"X 32"	810 x 810	5	43

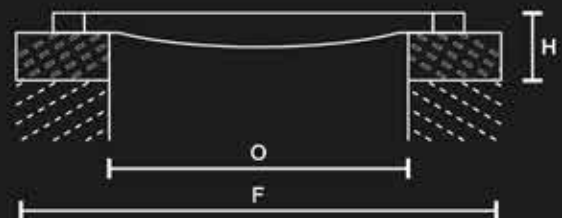
ROUND MANHOLE COVER

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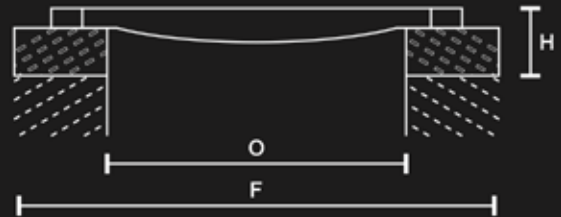
colours available ☐

Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
16"	407	13.5"	320	5	5.3



colours available ☐

Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
18"	460	16"	365	5	8

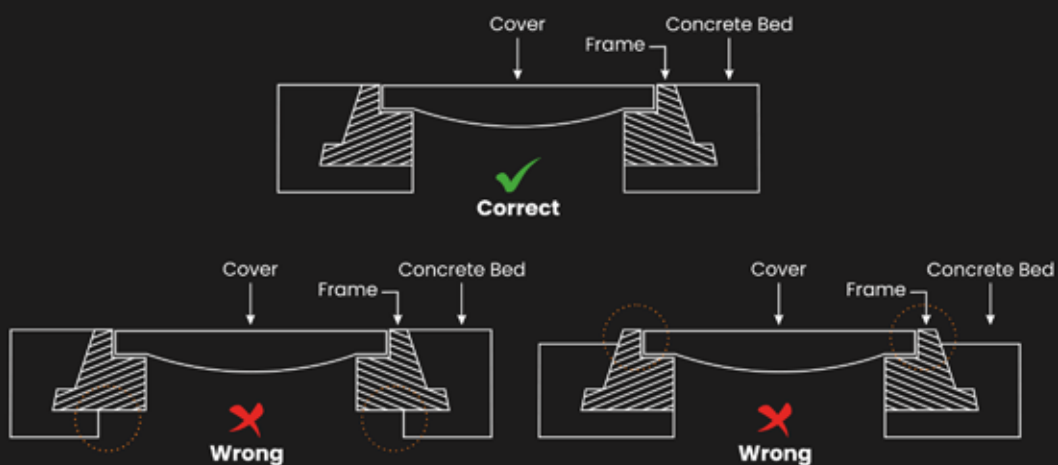


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Frame Size (F)		Clear Opening (O)		WBC (Weight Bearing Capacity)	Weight (Approx)
Inch	MM	Inch	MM	In Ton	In Kg
18"X 18"	460 x 460	14.5" x 14.5"	365 x 365	5	8

Installation Procedure for FRP Manhole Cover :

Care should be taken in handling of manhole cover and frames to prevent damage of edges and corners.



Installation Instructions :

1. Make sure that top level of the frame should match the road.
2. Prepare concrete bed considering height of the frame.
3. Frame should be allowed to set in concrete for a minimum time of 48 hrs. before its use.
4. Please note frame is not load bearing and therefore has to be completely supported from all sides.

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