

IDEAL SUBSTITUTE FOR CAST IRON



Fibreglass FRP Composite

- Manhole Covers & Frames
- Grating Covers & Frames
- Water Tight Covers & Frames
- Tank Covers & Frames
- Recess Covers & Frames

FRP Moulded Gratings

SFRC Precast Concrete

- Manhole Covers & Frames
- Grating Covers & Frames

Fibreglass FRP Railing

Plastic Manhole Step

www.kkfrp.com



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SFRC Precast Products

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About Us.

KK-FRP AND KONCRETE PRODUCTS PVT LTD Formerly K K Manhole & Gratings Co, Mumbai started manufacturing of Precast Concrete Products primarily manhole covers and frames, in Nashik three decades ago. It is an ideal Substitute of Cast Iron manhole covers. In our constant endeavour to try to improvise and bring in new products to meet the changing needs of the market and the society, we have ventured into manufacturing of Composite Fiberglass Manhole covers and stormwater gratings in the year 2012. We also export these products to African and Gulf Countries .

Our products cater to Housing Industry, Sewage and Water supply projects of Govt and Semi Govt Bodies, Foot paths for Roads, Airports, Ports, Railway Colonies etc

Our products are available in Light, Medium, Heavy and Extra Heavy Duty categories of load capacities from 2.5Tons to 40 Tons as per IS standard IS:12592, IS; 1726 and BSEN 124.

We are an ISO 9001:2015 , ISO 14001:2015 OHSAS 18001:2007 Company

We also have ISI Mark for Precast Concrete Covers.

We manufacture the following products in our 2 manufacturing plants:

- **FRP Composite Manhole Covers & Frames**
- **FRP Composite Storm Water Grating Covers & Frames**
- **FRP Composite Tank Covers & Frames**
- **FRP Composite Recess Covers & Frames**
- **FRP Moulded Gratings**
- **Fibreglass FRP Railing**
- **Plastic Manhole Stepz**

- **Precast Concrete Manhole Covers & Frames**
- **Precast Concrete Storm Water Grating Covers & Frames**
- **Precast Concrete Kerb Stone / Road Dividers**
- **Precast Concrete Railings & Tree Guards**

Our Ethos

KK FRP and Koncrete believe that along with good corporate governance, ethical behaviour an integral part of everything KK FRP and Koncrete does, as we believe that a creative and well managed corporate and socially responsible program is in the best interest of all –our clients, our employees, our suppliers and other business partners who work together with us.

Quality

We pro-actively work in close partnership with our clients to ensure consistency and quality of service is maintained through clear lines of communication. We aim to provide high-quality products for our clients thereby providing products to improve the infrastructure of the country as well as globally.

Customer Service

KK FRP and Koncrete aspires to a culture of unconditional integrity; it is at the heart of how we do things, integrity in dealing with our clients, employees, other contractors and our client's tenants and visitors; integrity in the service we provide and integrity in our behaviour .

We recognise that fostering a work culture that is based on teamwork and positive attitude is one of the keys to business success, and delivering service excellence to our Clients and their occupiers. Excellence is the minimum that we demand from every one of our employees – and we are confident that if you see any of our products, you will see that promise being kept every day. Sustained excellence, proactive problem-solving and unconditional integrity are what we offer.

People are at the centre of everything we do – our clients, our employees and our suppliers . We work as a 'one' team partnership, of shared goals that will aim to set new standards of service delivery.

Sustainability Policy

The company follows environmental friendly manufacturing and production methods. Our working practices are based on sustainability and we prioritise the following :

- Minimising the waste we produce either by re-using it or recycling it.
- Committed to recycling waste generated from its production and thus advocating circular economy.
- Installation of a solar panel plant for conservation of natural resources.

- KK goes green – Introducing eco-friendly sustainability products like recycled plastic waste manhole covers and green cement manhole covers shortly.
- Working towards fully changing the landscape of business, environment and responsibility towards environmental protection.

We are committed to embedding sustainability into every aspect of our operations and that includes exploring opportunities for enhancing biodiversity.

Environmental Policy

Our policy outlines our working procedures relating to the environment. We aim to provide clients with solutions from our wealth of market-leading experience and our understanding of biodiversity.

We are passionate about our environment, so conserving biodiversity is of paramount importance to us.

Workplace Dignity Policy

We care for our employees and partners individual's perception about respect and trust, equal treatment, valuation of one's worth, fair-treatment, autonomy and freedom of expression and at the workplace. All our employees health and wellness is covered in accordance to the relevant Govt. guidelines .

Our Continuous Improvement Process

We continuously strive towards continuously improving our procedures, workmanship, machinery and people in order to deliver the best internationally accepted quality standards without compromise.

We adopt the lean business model to maintain the best productivity standards, while reducing operational waste, so that we continuously provide our valued clients with the best product and pricing which is delivered on time, every time.

Our aim is to continuously strive towards being internationally recognised as our industries best, market leading manufacturer partner.



**IDEAL SUBSTITUTE
FOR CAST IRON**

**SFRC Precast Concrete
Manhole Covers & Frames
SFRC Precast Concrete
Grating Covers & Frames**

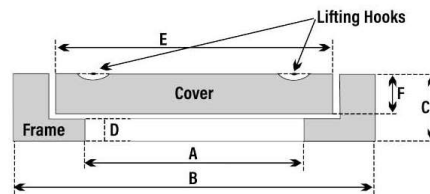


KK Concrete
Build Quality in Upstream

www.kkkoncrete.com

SPECIFICATIONS

SFRC Precast Concrete Manhole Cover & Frame



(All dimensions in mm) Dimensional Tol +/- 5mm

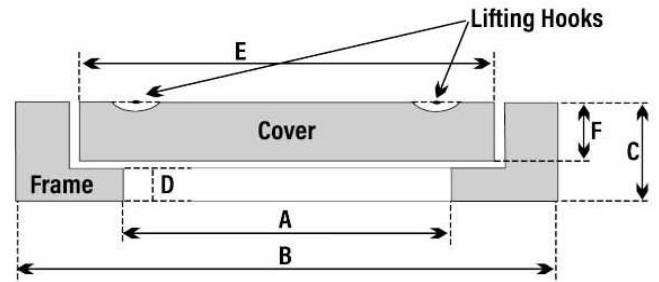
Product Picture	Product Code	Product Description	Load Capacity (Tons)	Wt/ Set (Kgs)	Frame Details				Cover Details	
					A	B	C	D	E	F
	MHCF01	HeavyDuty	20	230	600	910	180	75	760	100
	MHCF02	HeavyDuty	20	220	560	880	175	75	720	100
	MHCF03	HeavyDuty	20	170	540	840	150	50	630	100
	MHCF04	HeavyDuty	20	910	1200x1200	1540x1540	210	75	1360x1360	125
	MHCF05	HeavyDuty	20	730	900x1200	1265x1565	210	75	1060x675(2 nos)	125
	MHCF06	HeavyDuty	20	420	900x900	1170x1170	160	60	1000x1000	95
	MHCF07	HeavyDuty	20	300	750x750	1000x1000	150	50	850x850	95
	MHCF08	HeavyDuty	20	290	900x600	1150x850	150	50	1000x700	95
	MHCF09	HeavyDuty	20	220	600x600	850x850	150	50	700x700	95
	MHCF10	HeavyDuty	20	260	600x750	850x1000	150	55	400x400	95
	MHCF11	HeavyDuty	20	240	900x450	1150x700	150	50	1000x550	95
	MHCF12	HeavyDuty	20	180	600x450	850x700	150	50	700x550	95
	MHCF13	HeavyDuty	20	120	450x450	680x680	150	50	550x550	70
	MHCF14	HeavyDuty	20	75	300x300	530x530	125	55	400x400	70
	MHCF15	Medium Duty	10	110	560	770	120	50	670	70
	MHCF16	Medium Duty	10	145	540	840	125	50	640	80
	MHCF17	Medium Duty	10	125	540	840	115	50	630	65
	MHCF18	Medium Duty	10	300	860x600	1150x900	150	75	1000x750	70
	MHCF19	Medium Duty	10	340	900x900	1150x1150	150	75	1000x495(2 nos)	70
	MHCF20	Medium Duty	10	350	900x1200	1140x1440	125	50	1000x645(2 nos)	70
	MHCF21	Medium Duty	10	490	1200x1200	1450x1450	125	50	1300x645(2 nos)	70
	MHCF22	Medium Duty	10	350	1000x1000	1230x1230	125	50	1100x1100	70
	MHCF23	Medium Duty	10	300	900x900	1130x1130	125	50	1000x1000	70
	MHCF24	Medium Duty	10	220	900x600	1130x830	125	50	1000x700	70
	MHCF25	Medium Duty	10	240	750x750	980x980	125	50	850x850	70
	MHCF26	Medium Duty	10	165	600x600	830x830	125	50	700x700	70
	MHCF27	Medium Duty	5	125	600x600	830x830	100	50	700x700	50
	MHCF28	Medium Duty	10	180	900x450	1130x680	125	50	1000x550	70
	MHCF29	Medium Duty	5	140	900x450	1130x680	100	50	1000x550	50
	MHCF30	Medium Duty	10	140	600x450	830x680	125	50	700x550	70
	MHCF31	Medium Duty	5	100	600x450	830x680	100	50	700x550	50
	MHCF32	Medium Duty	5	80	450x450	680x680	100	50	550x550	50
	MHCF33	Medium Duty	5	50	300x300	530x530	100	50	400x400	50
	MHCF34	Light Duty	2.5	75	540	745	100	50	610	50
	MHCF35	Light Duty	2.5	220	900x900	1130x1130	100	50	1000x1000	50
	MHCF36	Light Duty	2.5	180	1000x600	1230x830	100	50	1100x700	50
	MHCF37	Light Duty	2.5	170	900x600	1130x830	100	50	1000x700	50
	MHCF38	Light Duty	2.5	100	900x450	1080x610	80	40	970x520	37
	MHCF39	Light Duty	2.5	70	600x450	780x610	80	40	660x520	37
	MHCF40	Light Duty	2.5	20	260x260	390x390	60	30	300x300	30
	MHCF41	Light Duty	2.5	16	260x185	390x315	60	30	300x225	30

KK Concrete Covers & Frames are Provided with suitable taper to prevent jamming of cover inside the frame. Suitable lifting hooks have been provided for facilitating removal of cover from frame. The edges of covers have been provided with mild steel rim to prevent damage of edges while handling. These product are available in circular, rectangular & Square shapes in light, medium & heavy duty category. Load test as per IS 12592-2002 for Extra Heavy Duty is 35 Tons, Heavy duty is 20 Tons, Medium duty is 10 Tons, Light duty is 2.5 Tons. Cover of Non Standard sizes can also be manufactured on request. Outer sizes, thickness, clear opening & load capacity details shall be required for non standard Sizes.

KK Concrete Products are manufactured by high frequency Vibration techniques, high quality moulds with requisite reinforcement in accordance to relevant IS specifications. The concrete grade is min. M 30. Proper water immersed or steam curing is done before despatch. Sizes & Specifications are subject to change without notice due to our constant endeavor to improve our products.

SPECIFICATIONS

SFRC Precast Concrete Grating Cover & Frame



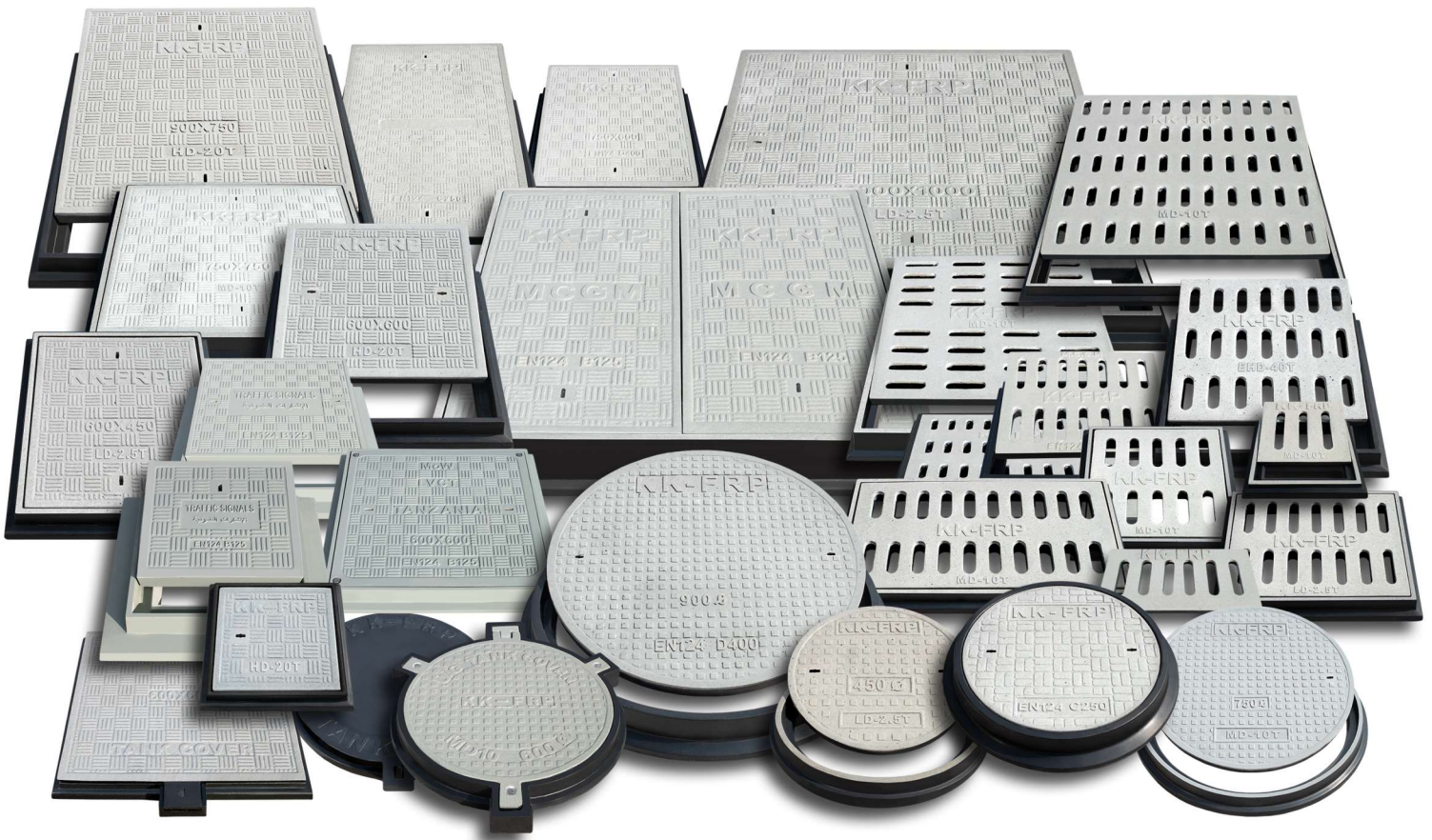
(All dimensions in mm) Dimensional Tol +/- 5mm

Product Picture	Product Code	Product Description	Load Capacity (Tons)	Wt/ Set (Kgs)	Frame Details				Cover Details	
					A	B	C	D	E	F
	GGFC 01	HeavyDuty	20	230	600	910	180	75	760	100
	GGFC 02	HeavyDuty	20	220	560	880	175	75	720	100
	GGFC 03	HeavyDuty	20	170	540	840	150	50	630	100
	GGFC 04	HeavyDuty	20	910	1200x1200	1540x1540	210	75	1360x1360	125
	GGFC 05	HeavyDuty	20	730	900x1200	1265x1565	210	60	1060x675(2 nos)	125
	GGFC 06	HeavyDuty	20	420	900x900	1170x1170	160	60	1000x1000	95
	GGFC 07	HeavyDuty	20	290	900x600	1150x850	150	50	1000x700	95
	GGFC 08	HeavyDuty	20	300	750x750	1000x1000	150	50	850x850	95
	GGFC 09	HeavyDuty	20	220	600x600	850x850	150	50	700x700	95
	GGFC 10	HeavyDuty	20	260	600x750	850x1000	150	55	400x400	95
	GGFC 10	HeavyDuty	20	240	900x450	1150x700	150	50	1000x550	95
	GGFC 11	HeavyDuty	20	180	600x450	850x700	150	50	700x550	95
	GGFC 12	HeavyDuty	20	120	450x450	680x680	125	50	550x550	70
GGFC 13	HeavyDuty	20	75	300x300	530x530	125	55	400x400	70	
	GGFC 14	Medium Duty	10	110	560	770	120	50	670	70
	GGFC 15	Medium Duty	10	145	540	840	125	50	640	80
	GGFC 16	Medium Duty	10	125	540	840	115	50	630	65
	GGFC 17	Medium Duty	10	350	900x1200	1140x1440	125	50	1000x645 (2 nos)	70
	GGFC 18	Medium Duty	10	490	1200x1200	1450x1450	125	50	1300x645(2 nos)	70
	GGFC 19	Medium Duty	10	350	1000x1000	1230x1230	125	50	1100x1100	70
	GGFC 20	Medium Duty	10	300	900x900	1130x1130	125	50	1000x1000	70
	GGFC 21	Medium Duty	10	220	900x600	1130x830	125	50	1000x700	70
	GGFC 22	Medium Duty	10	165	600x600	830x830	125	50	700x700	70
	GGFC 23	Medium Duty	10	180	900x450	1130x680	125	50	1000x550	70
	GGFC 24	Medium Duty	10	240	750x750	1000x1000	125	50	850x850	70
	GGFC 25	Medium Duty	10	140	600x450	830x680	125	50	700x550	70
	GGFC 26	Medium Duty	5	80	450x450	680x680	100	50	550x550	50
	GGFC 27	Medium Duty	5	50	300x300	530x530	100	50	400x400	50
	GGFC 28	Light Duty	2.5	75	540	745	100	50	610	50
	GGFC 29	Light Duty	2.5	215	900x900	1130x1130	100	50	1000x1000	50
	GGFC 30	Light Duty	2.5	170	900x600	1130x830	100	50	1100x700	50
	GGFC 31	Light Duty	2.5	140	900x450	1130x830	100	50	1000x700	50
	GGFC 32	Light Duty	2.5	125	600x600	830x830	100	50	700x700	50
	GGFC 33	Light Duty	2.5	100	600x450	830x680	100	50	700x550	50
	GGFC 34	Light Duty	2.5	20	260x260	390x390	60	30	300x300	30
	GGFC 35	Light Duty	2.5	16	260x185	390x315	60	30	300x225	30

KK Concrete Grating Covers & Frames are Provided with suitable taper to prevent jamming of cover inside the frame. Suitable lifting hooks have been provided for facilitating removal of cover from frame. The edges of covers have been provided with mild steel rim to prevent damage of edges while handling. These product can be used in areas such as open drains, storm water drains etc. These products are available in circular, rectangular & Square shape in light, medium & heavy duty categories.

KK Concrete Products are manufactured by high frequency Vibration techniques, high quality moulds with requisite reinforcement in accordance to relevant IS specifications. The concrete grade is min. M 30. Proper water immersed or steam curing is done before despatch. Sizes & Specifications are subject to change without notice due to our constant endeavor to improve our products.

IDEAL SUBSTITUTE FOR CAST IRON & RCC MANHOLE COVERS



**Fibreglass FRP Composite
Manhole Covers & Frames
Grating Covers & Frames
Tank Covers & Frames
Recess Covers & Frames
Moulded Gratings**

www.kkfrp.com

What is FRP (Fibre Reinforced Polymer) ?

It is a Composite material of Thermosett resin mainly polyester resin. with a matrix of glass fibres reinforced in it & quartz as an aggregate. Reinforcing Glass fibres of varied types & categories are arranged in a fashion to suit specific load capacities & polymer resin is applied to it which acts as the binder to the composite material. Aggregates of quartz mixed with resin are then added & the mixture of above creates a composite material which is very high in compressive. tensile & flexural strength. FRP's are commonly used in aerospace. marine. automotive & other miscellaneous industry. extensively.

Advantages.



Quality

- ◆ Waterproof. Weatherproof. Non Corrosive. Burglarproof
- ◆ High Strength : Weight Ratio
- ◆ Light Weight : Ease of Handling
- ◆ Temperature Resistance from - 40 degrees to 80 degrees



Durability

Life span of 30 + years



Sizes & Configuration

Standard designs conforming to IS:1726 - 1991 are 2.5 10. 20 & 35 Ton & BSEN - 124 are 1.5. 12.5. 25 & 40 Ton

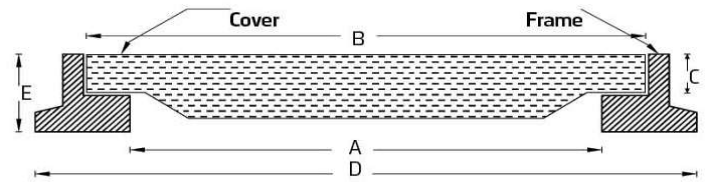


Customization

Options of decorative surface designs & color variations available.



SPECIFICATIONS

Manhole Cover & Frame



FRP Composite Manhole Cover & Frame - Light Duty LD-2.5/5

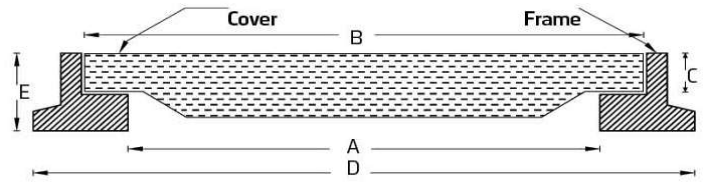
Areas where our Duty Manhole Covers & Frames are used include pedestrians, pedal cyclists, footways, car parking, residential complexes, institutions & where light vehicular traffic is common.
(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
 	MCLD-01	2.5/5	22	450 Dia	500 Dia	30	580 Dia	60
	MCLD-02	2.5/5	30	560 Dia	610 Dia	30	680 Dia	60
	MCLD-03	2.5/5	34	600 Dia	660 Dia	30	730 Dia	60
	MCLD-04	2.5/5	57	750 Dia	810 Dia	30	880 Dia	60
	MCLD-05	2.5/5	81	900 Dia	960 Dia	40	1060 Dia	80
	MCLD-06	2.5/5	11	225x300	260x330	20	345x420	50
	MCLD-07	2.5/5	13	300x300	350x350	25	440x440	60
	MCLD-08	2.5/5	29	450x450	510x510	30	600x600	70
	MCLD-09	2.5/5	35	450x600	510x660	30	600x750	70
	MCLD-10	2.5/5	49	600x600	660x660	30	750x750	70
	MCLD-11	2.5/5	53	600x750	660x810	30	730x880	60
	MCLD-12	2.5/5	58	750x750	810x810	30	880x880	60
	MCLD-13	2.5/5	46	900x450	960x510	30	1050x600	70
	MCLD-14	2.5/5	63	900x600	960x660	30	1050x750	70
	MCLD-15	2.5/5	75	900x750	960x810	30	1030x880	60
	MCLD-16	2.5/5	91	900x900	960x960	30	1050x1050	70
	MCLD-17	2.5/5	170	1000x1000	1080x1080	50	1200x1200	90
	MCLD-18	2.5/5	150	1200x600	1280x680	50	1400x800	90
	MCLD-19	2.5/5	190	1200x900	645(2)x990	50	1400x1100	80
	MCLD-20	2.5/5	255	1200x1200	1280x1280	50	1400x1400	90
	MCLD-21	2.5/5	290	1500x1500	1580x1580	50	1680x1680	90
	MCLD-22	2.5/5	310	1800x1200	630(3)x1280	50	1980x1380	90



SPECIFICATIONS

Manhole Cover & Frame



FRP Composite Manhole Cover & Frame - Medium Duty MD-10 / B125

Areas where our Medium Duty Manhole Covers & Frames are used include roads, service lanes & where medium vehicular traffic is common

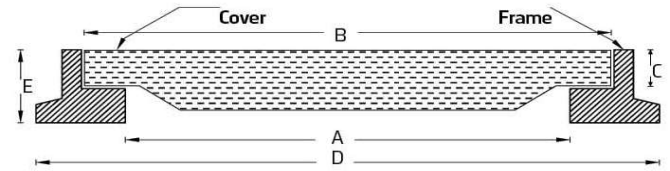
(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	MCMD-01	10/12.5	22	450 Dia	500 Dia	30	580 Dia	60
	MCMD-02	10/12.5	30	560 Dia	610 Dia	30	680 Dia	60
	MCMD-03	10/12.5	34	600 Dia	660 Dia	30	730 Dia	60
	MCMD-04	10/12.5	57	750 Dia	810 Dia	30	880 Dia	60
	MCMD-05	10/12.5	81	900 Dia	960 Dia	40	1060 Dia	80
	MCMD-06	10/12.5	11	225x300	260x330	20	345x420	50
	MCMD-07	10/12.5	13	300x300	350x350	25	440x440	60
	MCMD-08	10/12.5	29	450x450	510x510	30	600x600	70
	MCMD-09	10/12.5	35	450x600	510x660	30	600x750	70
	MCMD-10	10/12.5	49	600x600	660x660	30	750x750	70
	MCMD-11	10/12.5	53	600x750	660x810	30	730x880	60
	MCMD-12	10/12.5	58	750x750	810x810	30	880x880	60
	MCMD-13	10/12.5	46	900x450	960x510	30	1050x600	70
	MCMD-14	10/12.5	63	900x600	960x660	30	1050x750	70
	MCMD-15	10/12.5	75	900x750	960x810	30	1030x880	60
	MCMD-16	10/12.5	91	900x900	960x960	30	1050x1050	70
	MCMD-17	10/12.5	170	1000x1000	1080x1080	50	1200x1200	90
	MCMD-18	10/12.5	150	1200x600	1280x680	50	1400x800	90
	MCMD-19	10/12.5	190	1200x900	645(2)x990	50	1400x1100	80
	MCMD-20	10/12.5	255	1200x1200	1280x1280	50	1400x1400	90
	MCMD-21	10/12.5	290	1500x1500	1580x1580	50	1680x1680	90
	MCMD-22	10/12.5	310	1800x1200	630(3)x1280	50	1980x1380	90



SPECIFICATIONS



Manhole Cover & Frame



FRP Composite Manhole Cover & Frame - Heavy Duty HD-20 / C250

Areas where our Heavy Duty Manhole Covers & Frames are used include City roads, commercial areas, bus terminals & where heavy vehicular traffic is Common.

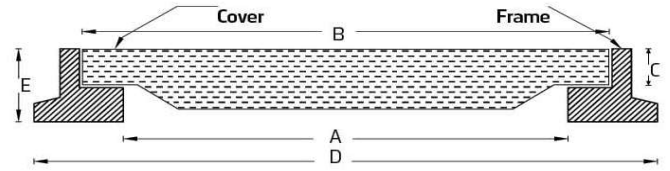
(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
 	MCHD-01	20/25	40	450 Dia	510 Dia	50	630 Dia	80
	MCHD-02	20/25	42	560 Dia	620 Dia	50	765 Dia	100
	MCHD-03	20/25	46	600 Dia	660 Dia	50	800 Dia	100
	MCHD-04	20/25	70	750 Dia	810 Dia	50	920 Dia	100
	MCHD-05	20/25	128	900 Dia	960 Dia	50	1100 Dia	110
	MCHD-06	20/25	19	225x300	285x360	30	405x480	60
	MCHD-07	20/25	26	300x300	380x380	50	480x480	80
	MCHD-08	20/25	45	450x450	530x530	50	630x630	80
	MCHD-09	20/25	56	450x600	530x680	50	630x780	80
	MCHD-10	20/25	69	600x600	680x680	50	780x780	80
	MCHD-11	20/25	73	600x750	660x810	50	780x930	80
	MCHD-12	20/25	102	750x750	810x810	50	930x930	80
	MCHD-13	20/25	82	900x450	980x530	50	1080x630	80
	MCHD-14	20/25	100	900x600	980x680	50	1080x780	80
	MCHD-15	20/25	115	900x750	960x810	50	1080x930	80
	MCHD-16	20/25	138	900x900	980x980	50	1080x1080	80
	MCHD-17	20/25	170	1000x1000	1080x1080	50	1200x1200	90
	MCHD-18	20/25	150	1200x600	1280x680	50	1400x800	90
	MCHD-19	20/25	190	1200x900	645(2)x990	50	1400x1100	80
	MCHD-20	20/25	255	1200x1200	1280x1280	50	1400x1400	90
	MCHD-21	20/25	290	1500x1500	1580x1580	50	1680x1680	90
	MCHD-22	20/25	310	1800x1200	630(3)x1280	50	1980x1380	90



SPECIFICATIONS

Manhole Cover & Frame





FRP Composite Manhole Cover & Frame - Extra Heavy Duty EHD-40 / D400

Areas where our Heavy Duty Manhole Covers & Frames are used include commercial areas.

Industrial areas, warehouses & where heavy vehicular traffic is common with heavy trucks & trailers.

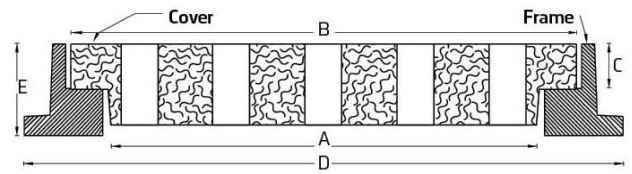
(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
 	MCEHD-01	40	40	450 Dia	510 Dia	50	630 Dia	80
	MCEHD-02	40	42	560 Dia	620 Dia	50	765 Dia	100
	MCEHD-03	40	46	600 Dia	660 Dia	50	800 Dia	100
	MCEHD-04	40	70	750 Dia	810 Dia	50	920 Dia	100
	MCEHD-05	40	128	900 Dia	960 Dia	50	1100 Dia	110
	MCEHD-06	40	19	225x300	285x360	30	405x480	60
	MCEHD-07	40	26	300x300	380x380	50	480x480	80
	MCEHD-08	40	45	450x450	530x530	50	630x630	80
	MCEHD-09	40	56	450x600	530x680	50	630x780	80
	MCEHD-10	40	69	600x600	680x680	50	780x780	80
	MCEHD-11	40	73	600x750	660x810	50	780x930	80
	MCEHD-12	40	102	750x750	810x810	50	930x930	80
	MCEHD-13	40	82	900x450	980x530	50	1080x630	80
	MCEHD-14	40	100	900x600	980x680	50	1080x780	80
	MCEHD-15	40	115	900x750	960x810	50	1080x930	80
	MCEHD-16	40	138	900x900	980x980	50	1080x1080	80
	MCEHD-17	40	170	1000x1000	1080x1080	50	1200x1200	90
	MCEHD-18	40	150	1200x600	1280x680	50	1400x800	90
	MCEHD-19	40	190	1200x900	645(2)x990	50	1400x1100	80
	MCEHD-20	40	255	1200x1200	1280x1280	50	1400x1400	90
	MCEHD-21	40	290	1500x1500	1580x1580	50	1680x1680	90
	MCEHD-22	40	310	1800x1200	630(3)x1280	50	1980x1380	90



SPECIFICATIONS

Grating Cover & Frame



FRP Composite Storm Water Grating Cover & Frame - Light Duty LD-2.5 / 5 & Medium Duty MD-10 / B125

Areas where our Light Duty & Medium Duty Grating Covers & Frames are used include Pedestrians, Pandal Cyclists, Flotways, car parking, residential complexes, institutions & where light vehicular traffic is Common. (All dimensions in mm)

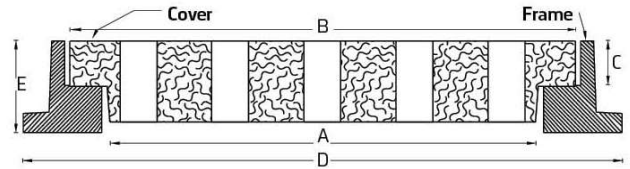
Product Picture	Product Code	Load Capacity (Tons)	Wt/Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	GGLD-01	2.5/5	11	225X300	275X350	30	395X450	60
	GGLD-02	2.5/5	13	300X300	350X350	25	440X440	60
	GGLD-03	2.5/5	23	450X450	510X510	30	600X600	70
	GGLD-04	2.5/5	32	450X600	510X660	30	600X750	70
	GGLD-05	2.5/5	43	600X600	660X660	30	750X750	70
	GGLD-06	2.5/5	47	750X750	810X810	30	880X880	60
	GGLD-07	2.5/5	43	900X450	960X510	30	1050X600	70
	GGLD-08	2.5/5	60	900X600	960X660	30	1050X700	70
	GGLD-09	2.5/5	105	900X900	960X960	30	1050X1050	70
	GGLD-10	2.5/5	170	1000X1000	1080X1080	50	1200X1200	90
	GGLD-11	2.5/5	145	1200X600	1280X680	50	1400X800	90
	GGLD-12	2.5/5	190	1200X900	1290X990	50	1400X1100	80
	GGLD-13	2.5/5	255	1200X1200	1280X1280	50	1400X1400	90
	GGLD-14	2.5/5	290	1500x1500	1580x1580	50	1680x1680	90
	GGLD-15	2.5/5	310	1800x1200	630(3)x1280	50	1980x1380	90

(all dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	GGMD-01	10/12.5	11	225X300	275X350	30	395X450	60
	GGMD-02	10/12.5	13	300X300	350X350	30	440X440	60
	GGMD-03	10/12.5	26	450X450	510X510	30	600X600	70
	GGMD-04	10/12.5	32	450X600	510X660	30	600X750	70
	GGMD-05	10/12.5	44	600X600	660X660	30	750X750	70
	GGMD-06	10/12.5	58	750X750	810X810	30	880X880	60
	GGMD-07	10/12.5	44	900X450	960X510	30	1050X600	70
	GGMD-08	10/12.5	60	900X600	960X660	30	1050X750	70
	GGMD-09	10/12.5	105	900X900	960X960	30	1050X1050	70
	GGMD-10	10/12.5	170	1000X1000	1080X1080	50	1200X1200	90
	GGMD-11	10/12.5	145	1200X600	1280X680	50	1400X800	90
	GGMD-12	10/12.5	190	1200X900	1290X990	50	1400X1100	80
	GGMD-13	10/12.5	255	1200X1200	1280X1280	50	1400X1400	90
	GGMD-14	10/12.5	290	1500x1500	1580x1580	50	1680x1680	90
	GGMD-15	10/12.5	310	1800x1200	630(3)x1280	50	1980x1380	90

SPECIFICATIONS

Grating Cover & Frame



FRP Composite Storm Water Grating Cover & Frame - Heavy Duty HD-20 / C250 & Extra Heavy Duty EHD-40 / D400

Areas where our Heavy Duty & Extra Heavy Duty Grating Covers & Frames are used include commercial areas, industrial areas, warehouses & where heavy vehicular traffic is common with heavy trucks & trailers.

(All dimensions in mm)

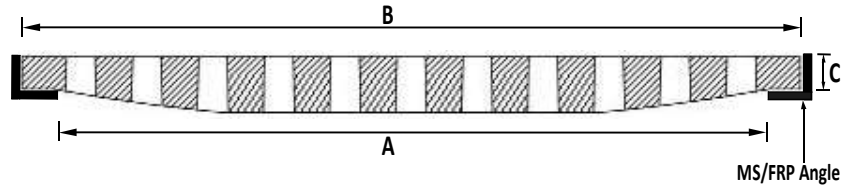
Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	GGHD-01	20/25	19	225X300	285X360	30	405X480	60
	GGHD-02	20/25	23	300X300	350X350	30	440X440	60
	GGHD-03	20/25	37	450X450	530X530	50	630X630	80
	GGHD-04	20/25	50	450X600	530X680	50	630X780	80
	GGHD-05	20/25	53	500X600	560X660	50	670X770	80
	GGHD-06	20/25	62	600X600	680X680	50	780X780	80
	GGHD-07	20/25	90	750X750	810X810	50	930X930	80
	GGHD-08	20/25	56	900X450	980X530	50	1080X630	80
	GGHD-09	20/25	100	900X600	980X680	50	1080X780	80
	GGHD-10	20/25	130	900X900	980X980	50	1080X1080	80
	GGHD-11	20/25	170	1000X1000	1080X1080	50	1200X1200	90
	GGHD-12	20/25	113	1200X600	1280X680	50	1400X800	90
	GGHD-13	20/25	190	1200X900	1290X990	50	1400X1100	80
	GGHD-14	20/25	255	1200X1200	1280X1280	50	1400X1400	90
	GGHD-15	20/25	290	1500x1500	1580x1580	50	1680x1680	90
	GGHD-16	20/25	310	1800x1200	630(3)X1280	50	1980x1380	90

(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	GGEHD-01	40	19	225X300	285X360	30	405X480	60
	GGEHD-02	40	23	300X300	380X380	50	480X480	80
	GGEHD-03	40	33	450X450	530X530	50	630X630	80
	GGEHD-04	40	50	450X600	530X680	50	630X780	80
	GGEHD-05	40	53	500X600	560X660	50	670X770	80
	GGEHD-06	40	62	600X600	680X680	50	780X780	80
	GGEHD-07	40	90	750X750	810X810	50	930X930	80
	GGEHD-08	40	70	900X450	980X530	50	1080X630	80
	GGEHD-09	40	100	900X600	980X680	50	1080X780	80
	GGEHD-10	40	130	900X900	980X980	50	1080X1080	80
	GGEHD-11	40	170	1000X1000	1080X1080	50	1200X1200	90
	GGEHD-12	40	145	1200X600	1280X680	50	1400X800	90
	GGEHD-13	40	190	1200X900	1290X990	50	1400X1100	80
	GGEHD-14	40	255	1200X1200	1280X1280	50	1400X1400	90

SPECIFICATIONS

Grating Cover Only



FRP Composite Storm Water Grating Cover Only

Light Duty LD-2.5/5 , Medium Duty MD-10/B125 , Heavy Duty HD-20/C250 & Extra Heavy Duty EHD-40/D400

Areas where our Light Duty & Medium Duty Grating Covers Only are used include Pedestrians. Pandal Cyclists. Flotways. Car Parking Residential Complex. Institutions. light Vehicular traffic is Common Areas where our Heavy Duty & Extra Heavy Duty Grating Covers Only are used include Commercial Areas . Industrial areas. Warehouses & where heavy vehicular traffic is common with heavy trucks & trailers

(All dimensions in mm)

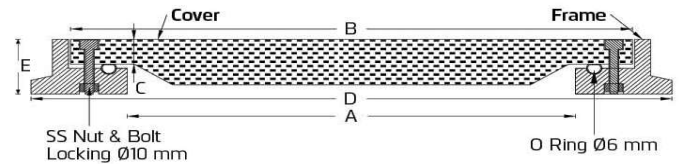
Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Drain Opening A	Cover Details	
					B	C
	GGC-01	2.5/5/20/25/40	16	300	600X400	40
	GGC-02	2.5/5/20/25/40	19	350	650X450	40
	GGC-03	2.5/5/20/25/40	8	200	600X240	30
	GGC-04	2.5/5/20/25/40	9	250	600X300	30
	GGC-05	2.5/5/20/25/40	22	500	600X600	30
	GGC-06	2.5/5/20/25/40	35	500	600X600	40
	GGC-07	2.5/5/20/25/40	21	400	700X450	40
	GGC-08	2.5/5/20/25/40	47	600	700X700	50
	GGC-09	2.5/5/20/25/40	23	300	900X370	40
	GGC-10	2.5/5/20/25/40	20	225	1000X280	40
	GGC-11	2.5/5/20/25/40	23	300	1000X360	40
	GGC-12	2.5/5/20/25/40	43	450	1000X530	40



KK frp

SPECIFICATIONS

Water Tight Tank / Manhole Cover & Frame



FRP Composite Water Tight Tank / Manhole Cover & Frame with Nut & Bolt fasteners & O Ring - Light Duty LD-2.5, Medium Duty MD-10

Areas where our Light & Medium Duty Water Tight / Tank/Manhole Covers & Frames are used. include Water Tanks of Building compounds with Car. Tempo movement. City Roads. Commercial areas where medium traffic is common & where locking is required for safety

(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	WTCFLD/MD-01	2.5/10	60	600 Dia	675 Dia	50	780 Dia	90
	WTCFLD/MD-02	2.5/10	32	300X300	380X380	50	480X480	80
	WTCFLD/MD-03	2.5/10	45	450X450	530X530	50	630X630	80
	WTCFLD/MD-04	2.5/10	56	450X600	530X680	50	630X780	80
	WTCFLD/MD-05	2.5/10	69	600X600	680X680	50	780X780	80
	WTCFLD/MD-06	2.5/10	82	900X450	980X530	50	1080X630	80
	WTCFLD/MD-07	2.5/10	100	900X600	980X680	50	1080X780	80
	WTCFLD/MD-08	2.5/10	140	900X900	980X980	50	1080X1080	80
	WTCFLD/MD-09	2.5/10	170	1000X1000	1080X1080	50	1200X1200	90
	WTCFLD/MD-10	2.5/10	255	1200X1200	1280X1280	60	1400X1400	90

FRP Composite Water Tight Tank / Manhole Cover & Frame with Nut & Bolt fasteners & O Ring - Heavy Duty HD-20, Extry Heavy Duty EHD-40

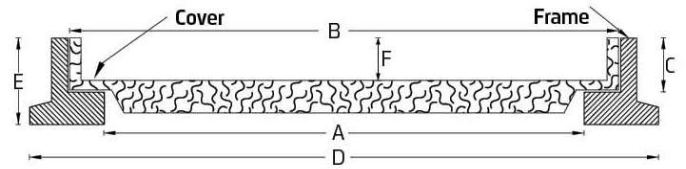
Areas where our Heavy Duty Water Tight Tank / Manhole Covers & Frames are used include Water Tanks of Building compounds with Heavy Truck movement. City Roads. Commercial areas where heavy traffic is common & where locking is required for safety.

(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Wt/ Set (Kgs)	Clear Opening	Cover Details		Frame Details	
				A	B	C	D	E
	WTCFHD/EHD-01	20/40	60	600 Dia	675 Dia	50	780 Dia	90
	WTCFHD/EHD-02	20/40	32	300X300	380X380	50	480X480	80
	WTCFHD/EHD-03	20/40	45	450X450	530X530	50	630X630	80
	WTCFHD/EHD-04	20/40	56	450X600	530X680	50	630X780	80
	WTCFHD/EHD-05	20/40	69	600X600	680X680	50	780X780	80
	WTCFHD/EHD-06	20/40	82	900X450	980X530	50	1080X630	80
	WTCFHD/EHD-07	2.5/10	100	900X600	980X680	50	1080X780	80
	WTCFHD/EHD-08	2.5/10	140	900X900	980X980	50	1080X1080	80
	WTCFHD/EHD-09	2.5/10	170	1000X1000	1080X1080	50	1200X1200	90
	WTCFHD/EHD-10	2.5/10	255	1200X1200	1280X1280	60	1400X1400	90

SPECIFICATIONS

Recess Cover & Frame



FRP Composite Recess Manhole Cover & Frame

(LD-2.5. MD-10. HD-20. EHD-40) Grades Recess Depth 60 mm

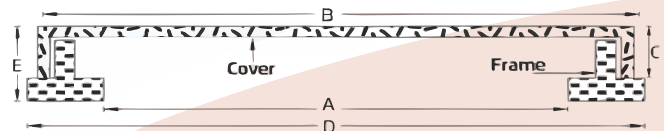
Areas where our Heavy Duty Water Tight Tank / Manhole Covers & Frames are used. include footpaths. parking areas. passages of Building compounds. Malls. Offices etc with Light to Heavy traffic

(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Clear Opening	Cover Details			Frame Details	
			A	B	F	C	D	E
	RCF01	2.5/10/20/40	600 Dia	660 Dia	60	90	770 Dia	120
	RCF02	2.5/10/20/40	300X300	360X360	60	90	470X470	120
	RCF03	2.5/10/20/40	450X450	510X510	60	90	620X620	120
	RCF04	2.5/10/20/40	600X450	660X510	60	90	770X620	120
	RCF05	2.5/10/20/40	600X600	660X660	60	90	770X770	120
	RCF06	2.5/10/20/40	900X450	960X510	60	90	1070X620	120
	RCF07	2.5/10/20/40	900X600	960X660	60	90	1070X770	120
	RCF08	2.5/10/20/40	900X900	960X960	60	90	1070X1070	120

SPECIFICATIONS

Over Head Tank Cover & Frame



Areas where our Light Duty Over head Tank Cover & Frame used is at Overhead Tanks. Underground tank with no traffic. (Light Duty).

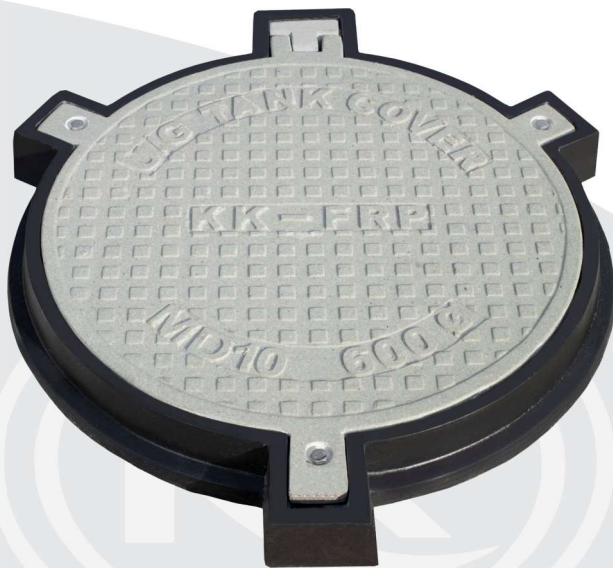
(All dimensions in mm)

Product Picture	Product Code	Load Capacity (Tons)	Clear Opening	Cover Details		Frame Details	
			A	B	C	D	E
	OTCF01	500 kgs	600 Dia	680 Dia	30	725 Dia	45
	OTCF02	500 kgs	450X450	510X510	30	550X500	45
	OTCF03	500 kgs	600X450	660X510	30	700X550	45
	OTCF04	500 kgs	600X600	660X600	30	700X700	45

KKfrp

Why Choose KKfrP ?

DESCRIPTION	CAST IRON	RCC	KK-FRP
Aesthetics	POOR	GOOD	VERY HIGH
Colour Choice	NONE	NONE	POSSIBLE
Top Finishing	ROUGH	SMOOTH	GRANITE FINISH
Weight	HIGH	HIGH	LOW
Life Span	HIGH	MODERATE	VERY HIGH
Scrap Value	HIGH	NEGLIGIBLE	NONE
Ease of Handling	LOW	LOW	HIGH
Corrossion Resistance	LOW	HIGH	HIGH
Effect of Sewage Gases	HIGH	LOW	LOW
Abrasion Resistance	MILD	NONE	HIGH

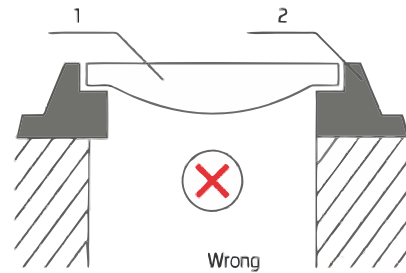
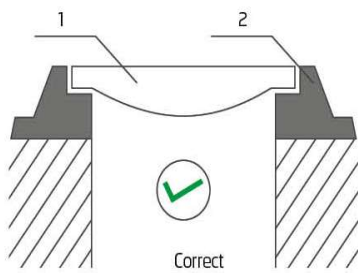


KKfrp

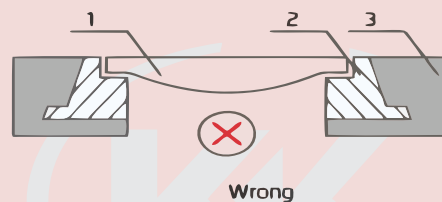
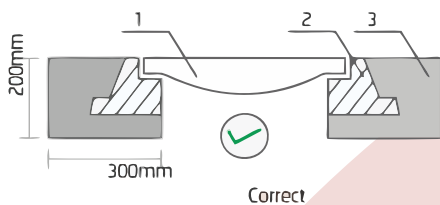
Fittings

Installation Process.

- ◆ Prepare Concrete bed considering height of frame
- ◆ The clear opening of the frame should be equal to the clear opening of the chamber
- ◆ Frame should be embedded in 300X200mm of minimum M-20 grade concrete
- ◆ Make sure that the top level of frame should match with the road surface



Manhole Cover & Frame / Grating Cover & Frame

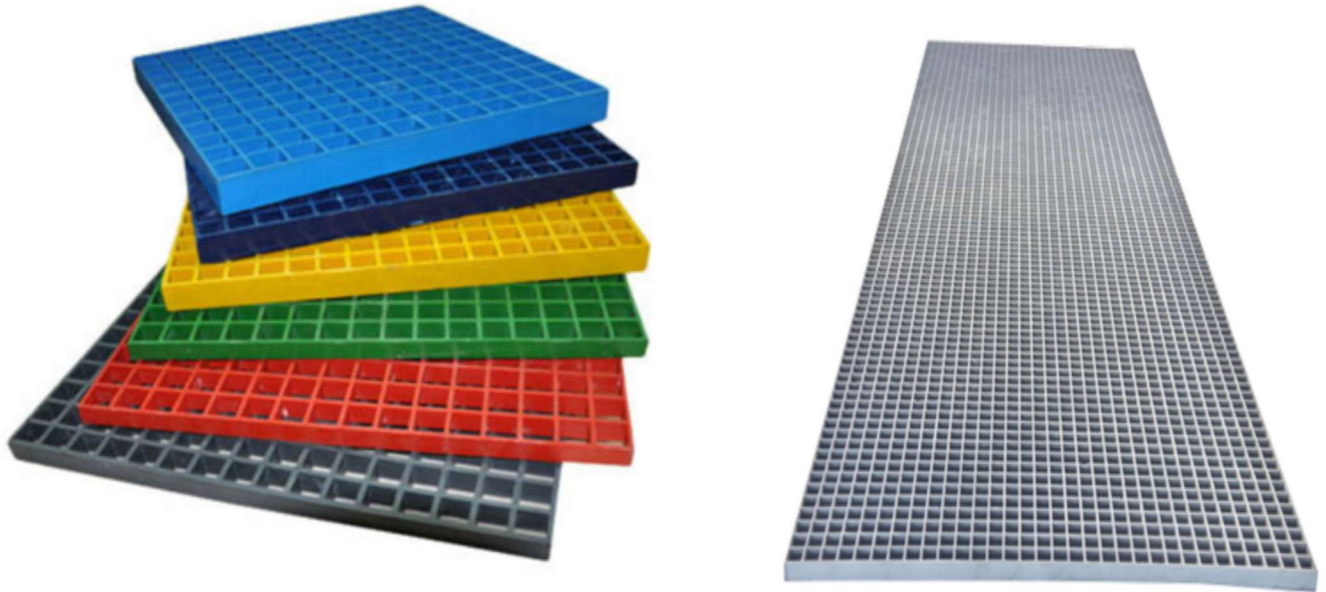


Manhole Cover & Frame / Grating Cover & Frame

KKfrp

KKfrp Moulded Gratings

KKfrp Moulded Gratings are an Ideal substitute for Hot Dip Galvanised / Mild Steel / Stainless Steel Gratings. Our Gratings are corrosion and chemical resistant, light in weight, are durable and have long life. They are available in various sizes and various resin options like Isophthalic, Vinyl & Orthophthalic Resins.

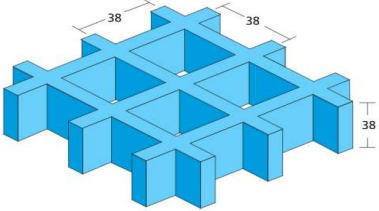
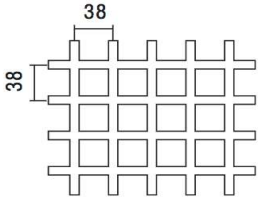
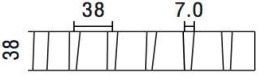
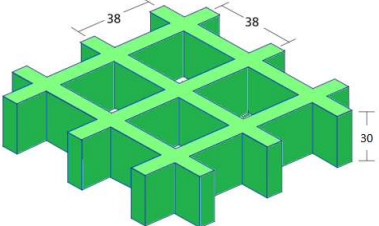
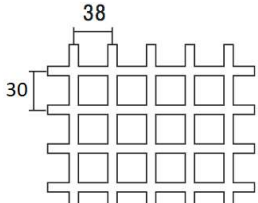
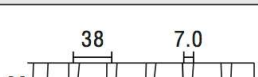
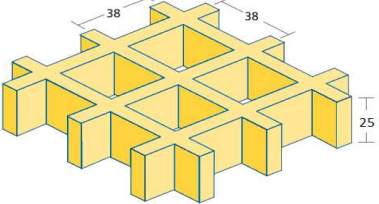
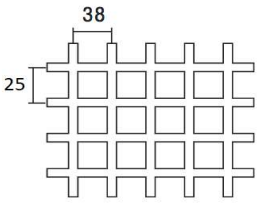
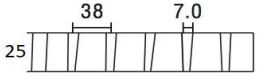


Advantages of KKfrp Moulded Gratings.

- **LIGHT WEIGHT**- Density 4 times less than steel.
- **CORROSION RESISTANT**- It gives resistance against all chemicals.
- **IMPACT RESISTANT**- Returns to original position without permanent deflection /distortion.
- **MAINTENANCE FREE**- No painting or cleaning required .
- **EASE OF INSTALLATION** - No welding required while installation.
- **EASE OF HANDLING** - Since light weight , easy to handle .
- **LIFE CYCLE**- Long durability ensures lowest life cycle cost .
- Very high strength to weight ratio.
- High impact and fatigue strength .
- Option of fire retardant available.
- Aesthetically pleasing appearance.
- Anti skid options available.

SPECIFICATIONS

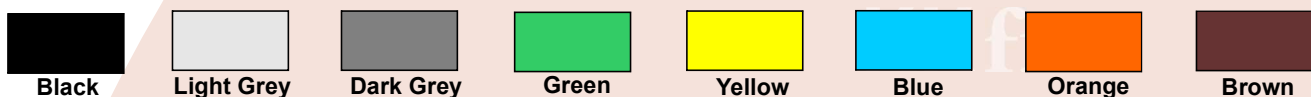
FRP Moulded Gratings

<p>KK frp GG-01</p> 	<p>Plan View</p>  <p>Elevation View</p> 	<p>38mm thick, 38x38mm square mesh, bearing bars run both direction</p> <p>Bearing bar thickness (Top/Bottom) : 7.0/5.0</p> <p>Bearing bar center : 38</p> <p>Open Area : 68%</p> <p>Approx. Weight : 19.50 kgs/m²</p> <p>Panel size available : 1220 x 3660,</p>
<p>KK frp GG-02</p> 	<p>Plan View</p>  <p>Elevation View</p> 	<p>30mm thick, 38x38mm square mesh, bearing bars run both direction</p> <p>Bearing bar thickness (Top/Bottom) : 7.0/5.0</p> <p>Bearing bar center : 38</p> <p>Open Area : 68%</p> <p>Approx. Weight : 14.10 kgs/m²</p> <p>Panel size available : 1220 x 3660</p>
<p>KK frp GG-03</p> 	<p>Plan View</p>  <p>Elevation View</p> 	<p>25mm thick, 38x38mm square mesh, bearing bars run both direction</p> <p>Bearing bar thickness (Top/Bottom) : 7.0/5.0</p> <p>Bearing bar center : 38</p> <p>Open Area : 68%</p> <p>Approx. Weight : 11.90 kgs/m²</p> <p>Panel size available : 1220 x 3660</p>

Applications of KK frp Moulded Gratings

- Channel drain covers
- Elevated Car Park
- Swimming pool
- Gardens
- Fencing
- Floorings
- Staircase
- Walkways
- Foot Bridges
- Platforms
- Trench Covers
- Earth Pit Covers
- Water treatment plants

Resin Variants - Isophthalic, Vinyl Ester , Bisphenol Resins.
Choice of Colours



IDEAL SUBSTITUTE FOR MILD STEEL / CONCRETE & G.I. RAILINGS

www.kkfrp.com



ADVANTAGES OF KK FIBER RAILINGS

- Excellent aesthetics
- Resistance to corrosion & chemicals
- High in strength
- Ease of handling due to low weight
- Theft proof
- Negligible maintenance cost
- Provision of advertisement by sponsor
- Low installation cost
- Availability in any colour of choice
- Heat & electrical resistance
- Fire resistant can be made of request

KK frp

APPLICATION OF RAILINGS

1. Along city foot paths. These railings prevent movement of two wheelers on footpaths which is a common sign in our cities during congestion. They also act as a divider between road & foot path & hence safeguard pedestrians against any accident by moving vehicle.
2. Railings have sufficient height & can be put as road dividers to prevent crossing of roads by pedestrians.
3. Used in beautification of roads, Gardens, Housing Colonies, Hotels, buildings.
4. Can be used as fencing and boundary wall .

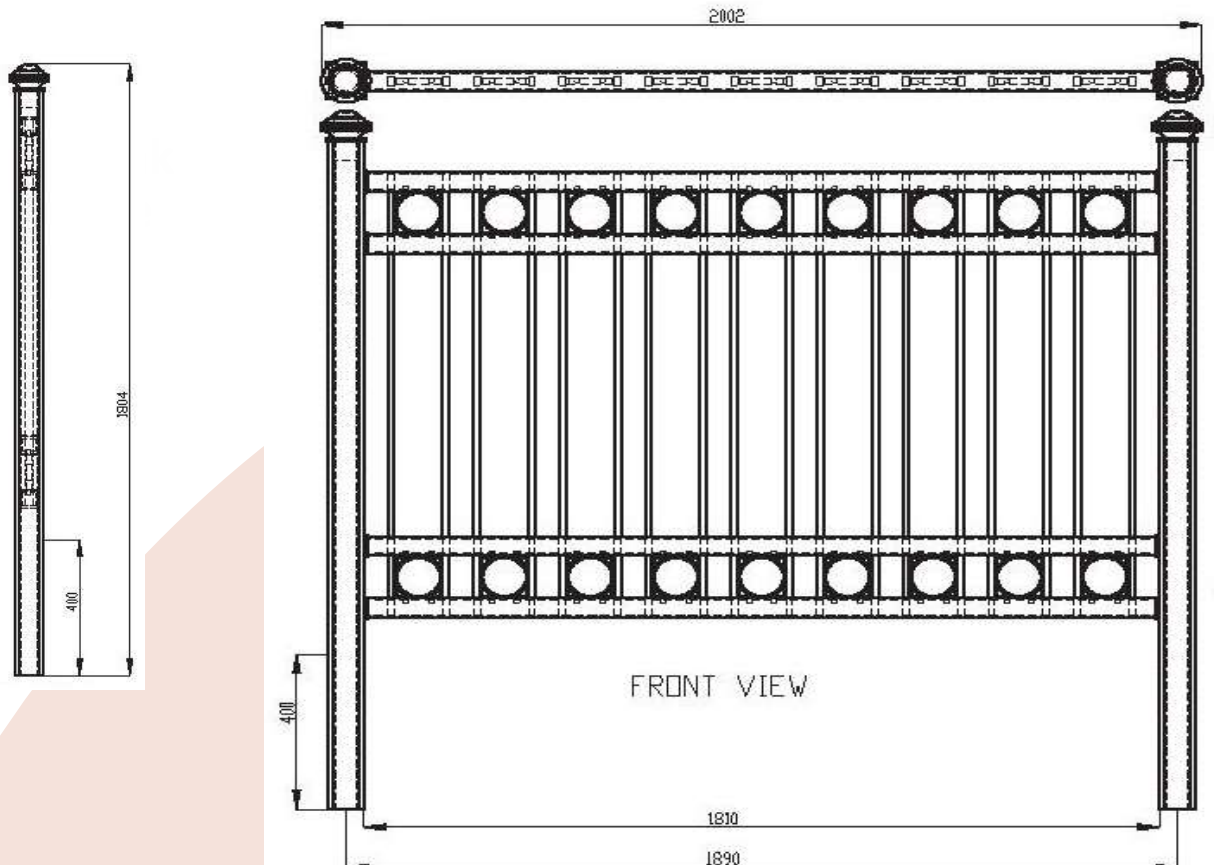
COMPARISON BETWEEN MILD STEEL / CONCRETE / KK FIBER RAILINGS

DESCRIPTION	MILD STEEL	CONCRETE	KK FIBER
Aesthetics	GOOD	GOOD	EXCELLENT
Life Span	POOR	GOOD	EXCELLENT
Corrosion / Heat / Electrical Resistivity	POOR	GOOD	EXCELLENT
Maintenance Cost	HIGH	MODERATE	NIL
Ease of Handling	MODERATE	POOR	GOOD
Choice of Colour	AVAILABLE	NA	AVAILABLE
Strength to Weight Ratio	LOW	VERY LOW	HIGH

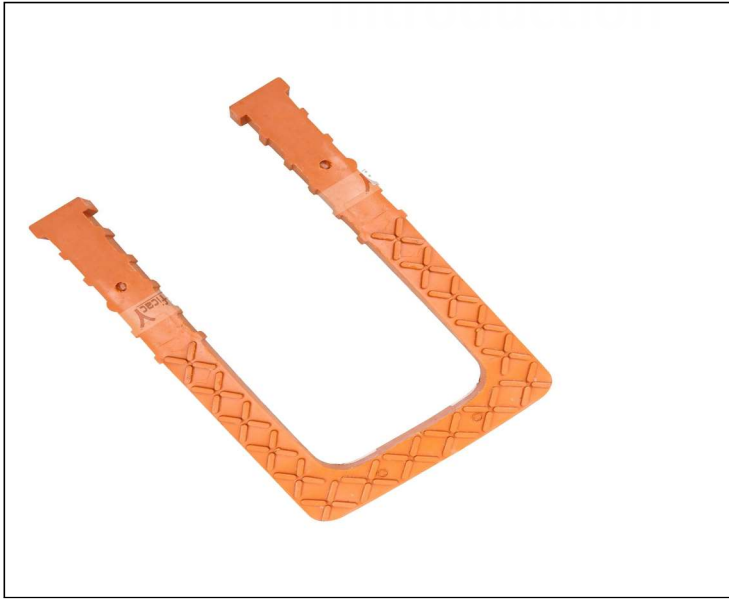
DIMENSIONS OF KK FIBER RAILINGS

ITEM CODE	LENGTH	OVERALL HEIGHT	HEIGHT ABOVE GROUND	PILLAR SECTION
KK FIBER 01	2000mm	1800mm	1400mm	80x80x8mm
KK FIBER 02	2000mm	1400mm	1000mm	80x80x8mm

SECTION DRAWING



KK Stepz PLASTIC MANHOLE STEP



ADVANTAGES OF KK STEPZ MANHOLE STEP

- High in strength
- Light in weight
- Theft proof
- Negligible maintenance cost
- Low installation cost
- Availability in any colour of choice
- Resistance to corrosion & chemicals
- Fire resistant

SPECIFICATIONS:

The polypropylene, conforming to ASTM D-4101 specification, is an injection moulded Product. It consists of 12mm dia Fe 500 grade MS Bar This step easily meets the load requirements of 225 kg. as per IS-5455.

INSTALLATION:

Cast the step in manhole wall . The step will be resist pullout forces of over 600kg.

LIFE SPAN:

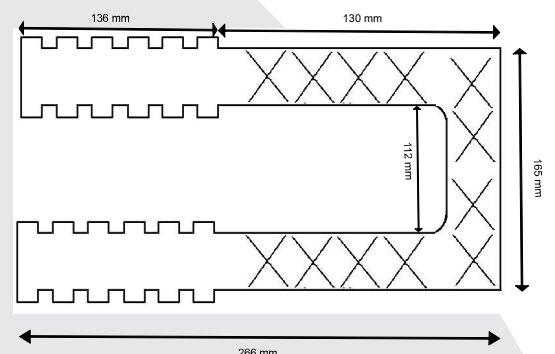
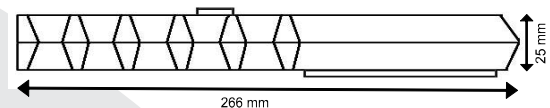
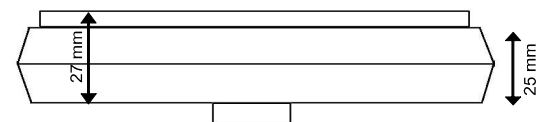
Polypropylene is known for its superior resistance to all types of corrosive sewage gases found in sewer lines.

SAFETY:

Slip resistant tread provided to prevent slippage during operation. Polypropylene is fire resistant, hence no danger of fire due to ignition of sewage gases.

APPLICATION:

- Underground sewage line manholes
- Overhead/ Underground water tanks
- Service shaft in multi-storey buildings
- As Ladder in walls.



WE WORK WITH ...





KKfrp

Durability - Strength - Quality

KK-FRP AND KONCRETE PRODUCTS PVT. LTD.
Formerly K.K.Manhole & Gratings Co.

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