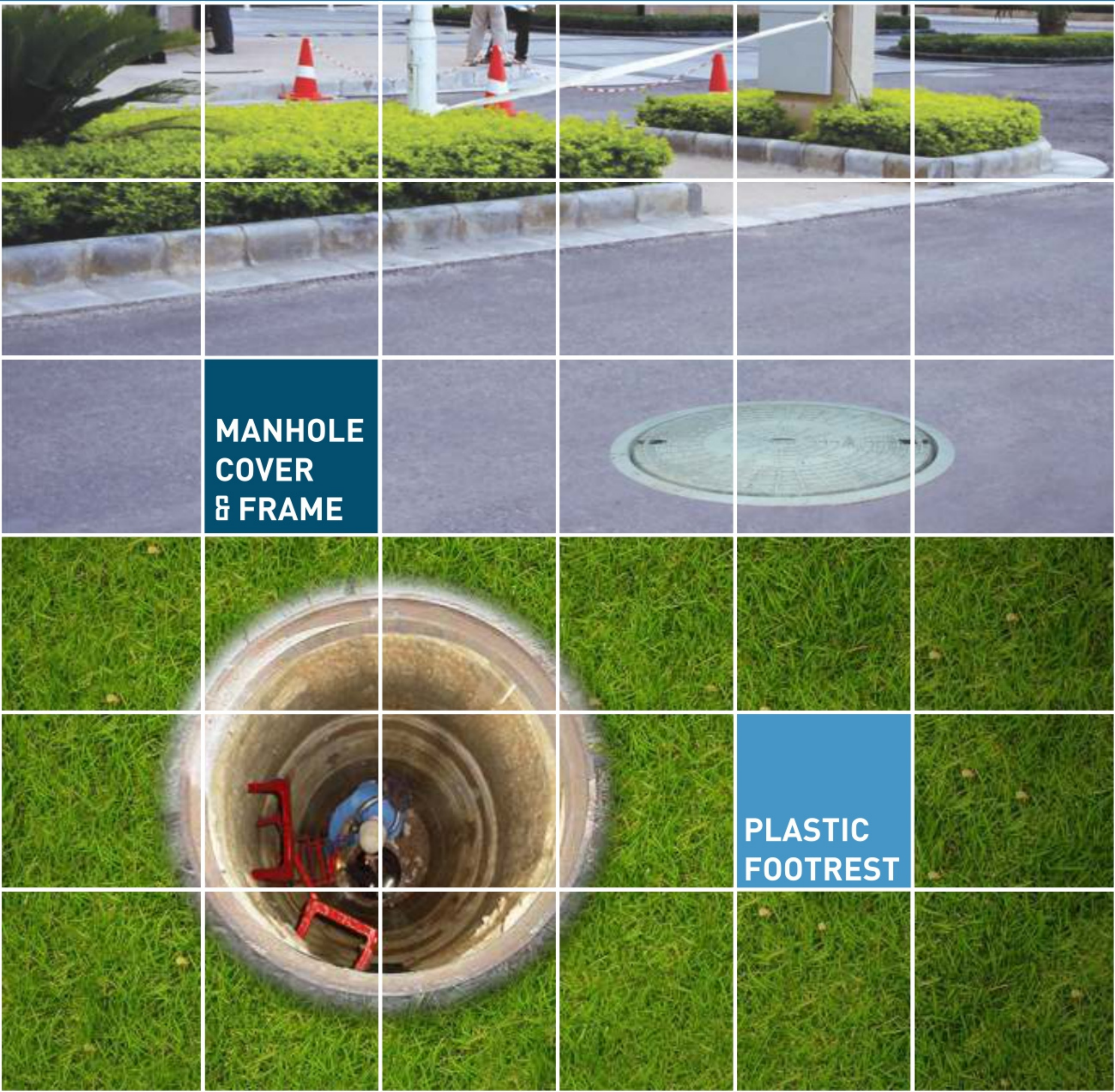


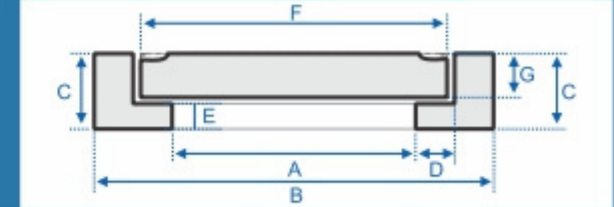
SEWAGE DRAINAGE



MANHOLE COVERS AND FRAMES AVAILABLE IN DELHI ONLY



All of our manhole covers and frames are manufactured using steel fabric reinforced concrete (SFRC) and are designed to meet load test requirement of IS-12592.



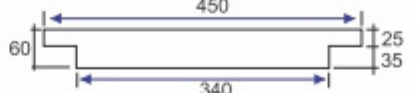
CAPACITY :- HD - 20 TON | MD - 10 TON | LD - 2.5 TON

Product Code	Product Description	Shape	Frame Details					Cover Details	
			A	B	C	D	E	F	G
MHCF - 01 ^(*)	Extra Heavy Duty - 35	Circular	560	895	175	75	75	715	100
MHCF - 03	Heavy Duty - 20	Circular	685	965	150	60	50	785	90
MHCF - 06 ^(*)	Heavy Duty - 20	Circular	560	895	155	75	75	715	80
MHCF - 08 ^(*)	Heavy Duty - 20	Square	600x600	855x855	130	50	50	710x710	80
MHCF - 10	Heavy Duty - 20	Square	450x450	700x700	135	50	60	550x550	75
MHCF - 11 ^(*)	Heavy Duty - 20	Rectangular	600x450	925x780	165	85	70	755x605	75
MHCF - 13 ^(*)	Medium Duty - 10	Circular	560	805	110	50	50	670	60
MHCF - 14 ^(*)	Medium Duty - 10	Square	600x600	810x810	100	50	50	710x710	50
MHCF - 15	Medium Duty - 10	Square	445x445	670x670	100	50	50	550x550	50
MHCF - 16 ^(*)	Medium Duty - 10	Rectangular	600x450	820x670	105	50	50	705x655	50
MHCF - 17 ^(*)	Medium Duty - 10	Rectangular	900x550	1200x870	135	50	65	1000x650	65
MHCF - 18 ^(*)	Medium Duty - 10	Rectangular	885x790	1365x1260	160	55	85	1005x910	75
MHCF - 19	Light Duty - 2.5	Square	455x445	615x615	80	30	40	500x500	35
MHCF - 20	Light Duty - 2.5	Rectangular	600x450	800x650	80	30	40	665x515	40
MHCF - 21 ^(*)	Gully Trap	Square	255x255	395x395	75	20	35	310x310	35
GGCF - 01 ^(*)	Gully Grating	Rectangular	500x450	700x655	125	30	55	570x520	70
GGCF - 02 ^(*)	Heavy Duty Gully Grating	Rectangular	500x450	795x745	150	55	50	620x570	100
GGCF - 03 ^(*)	Gully Grating	Rectangular	600x300	795x495	120	30	50	670x375	65

(*) above covers can be provided with holes

TANK LIDS

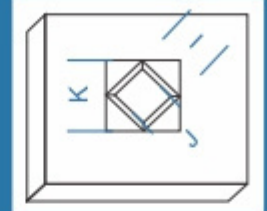
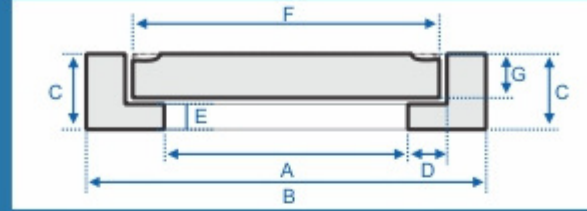


PRODUCT CODE	WT 01	WT 02	WT 03
DIMENSIONS			

MANHOLE COVERS AND FRAMES AVAILABLE IN CHENNAI ONLY



All of our manhole covers and frames are manufactured using steel fabric reinforced concrete (SFRC) and are designed to meet load test requirement of IS-12592.



CAPACITY :- HD - 20 TON | MD - 10 TON | LD - 2.5 TON

Product Code	Product Description		Shape	Frame Details					Cover Details	
				A	B	C	D	E	F	G
MHCF-1	600 HD		Circular	600	920	165	75	75	760	90
MHCF-2	560 HD		Circular	560	880	165	75	75	720	90
MHCF-3	450 HD		Circular	450	775	165	75	75	595	90
MHCF-4	900x900 HD		Square	900x900	1250x1250	200	100	100	1098x1098	100
MHCF-5	900x450 HD		Rectangular	900 x 450	1230 x 780	160	50	70	1025 x 565	90
MHCF-6	700 x 700 HD		Square	700 x 700	1000 x 1000	135	75	55	850 x 850	80
MHCF-7	600 x 600 HD		Square	600 x 600	850 x 850	135	60	50	710	80
MHCF-8	450 x 450 HD		Square	450 x 450	710 x 710	135	50	50	550	80
MHCF-9	600 x 450 HD		Rectangular	600 x 450	850 x 700	140	60	60	720 x 570	80
MHCF-10	600 MD		Circular	600	820	125	50	55	700	70
MHCF-11	560 MD		Circular	560	810	105	50	50	665	60
MHCF-12	900 x 900 MD		Square	900 x 900	1100 x 1100	120	50	50	998 x 998	70
MHCF-13	900 x 450 MD		Rectangular	900 x 450	1230 x 780	140	50	70	1025x565	70
MHCF-14	600 x 600 MD		Square	600 x 600	820 x 820	80	60	30	705	50
MHCF-15	450 x 450 MD		Square	450 x 450	660 x 660	80	50	30	550	50
MHCF-16	600 x 450 MD		Rectangular	600 x 450	840 x 690	100	55	50	710 x 560	50
MHCF-17	300 x 300 MD		Square	300 x 300	500 x 500	80	50	30	400	50
MHCF-18	600 x 600 LD		Square	600 x 600	800 x 800	85	35	45	670 x 670	40
MHCF-19	450 x 450 LD		Square	450 x 450	610 x 610	80	30	40	510	40
MHCF-20	600 x 450 LD		Rectangular	600 x 450	800 x 650	80	40	40	680 x 530	40
MHCF-21	300 x 300 LD		Square	305 x 305	450 x 450	70	30	30	360	40
MHCF-22	260 x 260 GT		Square	260 x 260	400 x 400	70	20	30	310	40
Product Code	Product Description	Shape	Frame Details					Cover Details		Sump Cover
			A	B	C	D	E	F	G	
MHCF-6S	700 x 700 HD Sump	Square	700 x 700	1000 x 1000	135	75	55	850 x 850	80	150
MHCF-7S	600 x 600 HD Sump	Square	600 x 600	850 x 850	135	60	50	710	80	150
MHCF-14S	600 x 600 MD Sump	Square	600 x 600	820 x 820	100	60	50	705	50	150
MHCF-15S	450 x 450 MD Sump	Square	450 x 450	660 x 660	80	50	30	550	50	110

1. Our Covers will always be removable from the frame

In typical IS-standard cover a mild-steel strip is provided around the cover as edge protection. This strip tends to get corroded over a period of time which eventually results in cover getting permanently stuck in the frame. Our covers do not suffer the same fate as we don't provide ms strip.



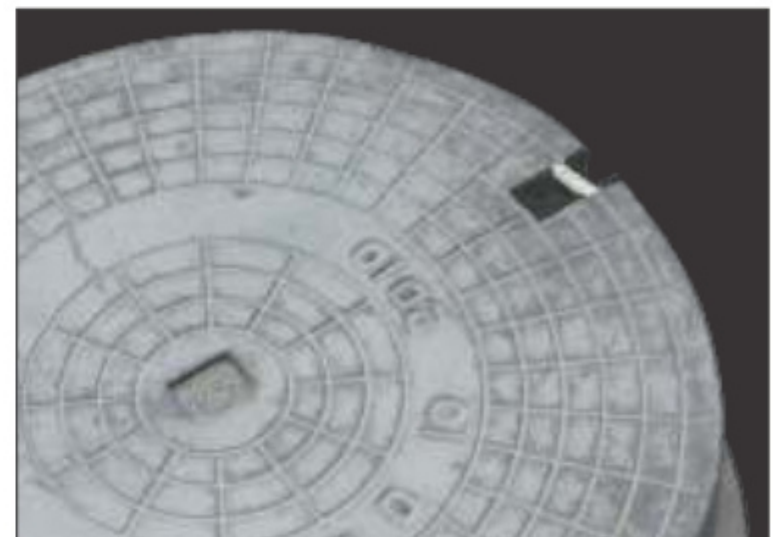
2. Our covers are easy to lift

We provide hooks on the periphery of the cover. This allows a workman to easily lift the cover using a pick axe while getting leverage from the frame.



3. Our hooks will last a lifetime

We hot dip galvanize our hooks which inhibits corrosion and ensures that our hooks will last a long time without failure.



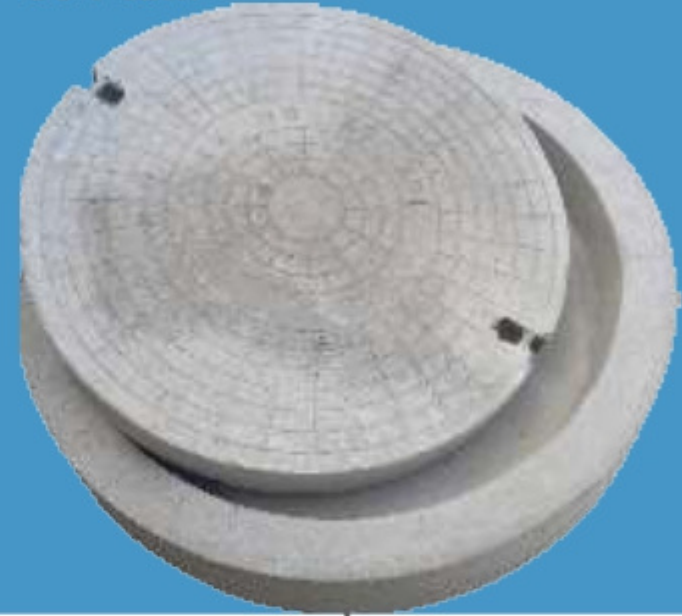
4. Our holes will never get choked.

Diverging configuration of the holes ensures that any debris either stays on top or passes through.

GGCF - 01



MHCF - 06 Plain



MHCF - 06 With Hole



MHCF - 08



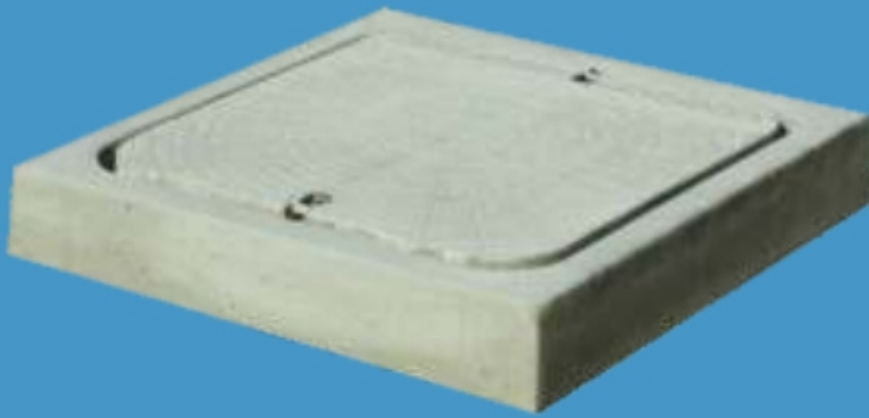
MHCF - 10



MHCF - 14



MHCF - 15



MHCF - 16



MHCF - 19



MHCF - 20

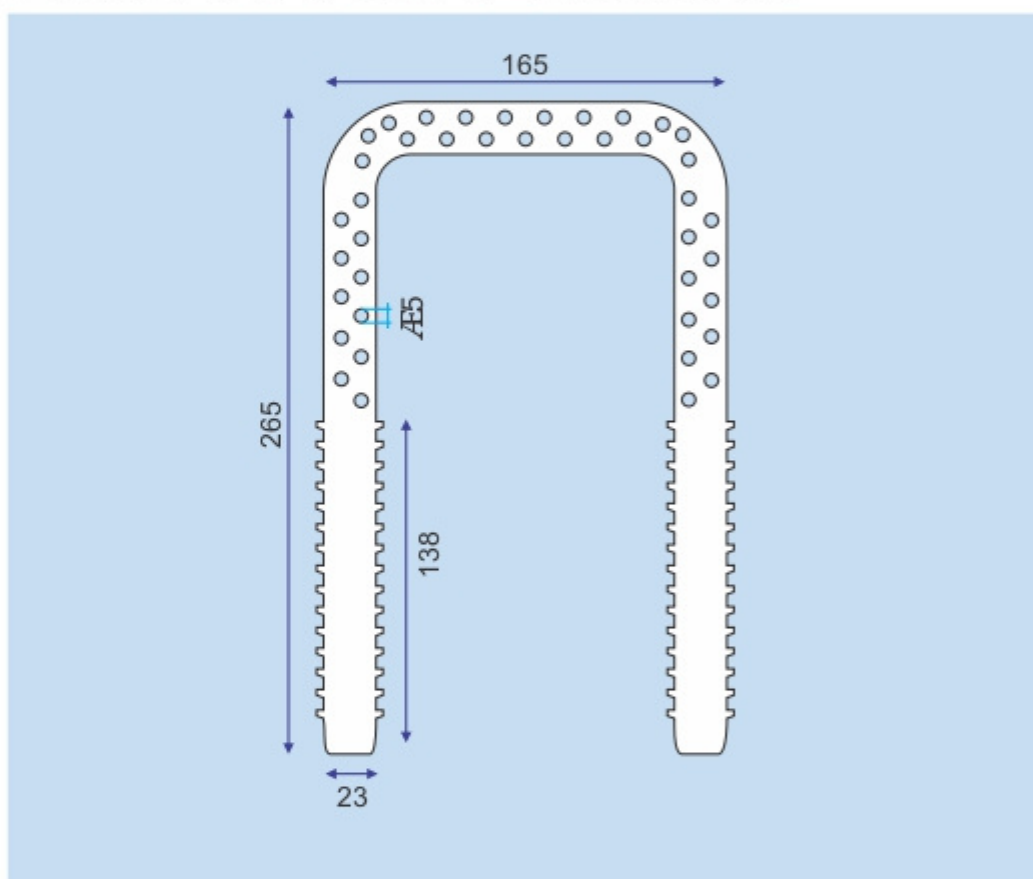


PLASTIC FOOTREST



plastic footrest is a uniquely designed polypropylene plastic encapsulated steel reinforced manhole safety step. It is a superior alternative to conventional mild steel / cast iron step. It offers unmatched resistance to all types of corrosive environments often characteristic of sanitary sewers. It is resistant to most acids, bases, vapors and microbiological attacks. Its unique design and colour provides added safety to the personnel.

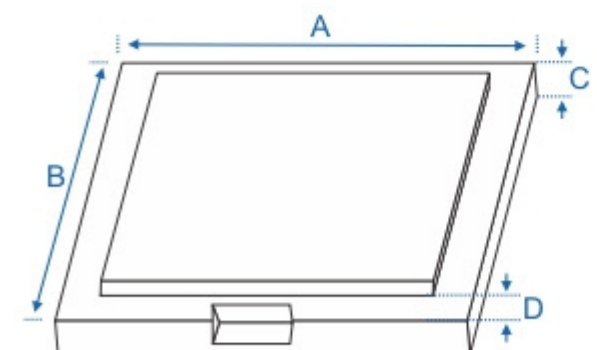
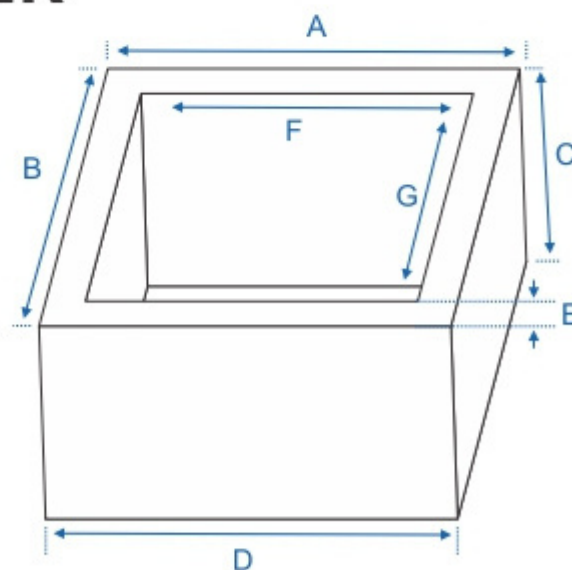
PRODUCT DIMENSIONS



Technical information

- Min 3 mm thick polypropylene copolymer is injection moulded around a 12 mm dia tor-steel bar.
- Orange color
- Min overall length 260mm & width of 165mm.
- Protruding legs have a 2mm tread on top surface for making the surface anti-skid.
- Designed to withstand the bend test and chemical resistance test as per specification.
- Polypropylene copolymer conforming to ASTM D-4101/IS-10910
- 12mm dia Fe-415 Steel reinforcement conforming to IS - 1786.

EARTHING PIT WITH COVER



Product Code	A	B	C	D	E	F	G
Pit	350	350	300	400	37.5	275	275
Cover	355	355	50	40	-	-	-

STORM WATER DRAINAGE

SLIT
DRAIN

U DRAIN

SAUCER
DRAIN

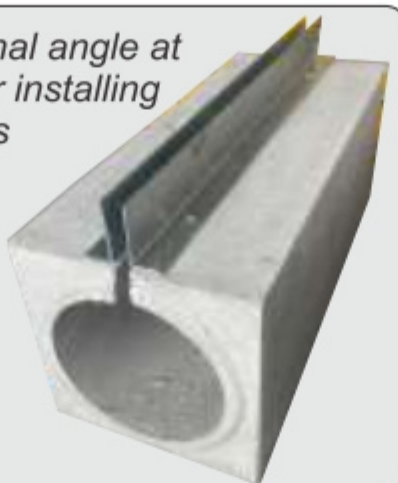
DRAIN
COVER

SLIT DRAIN SYSTEM

SLIT-01



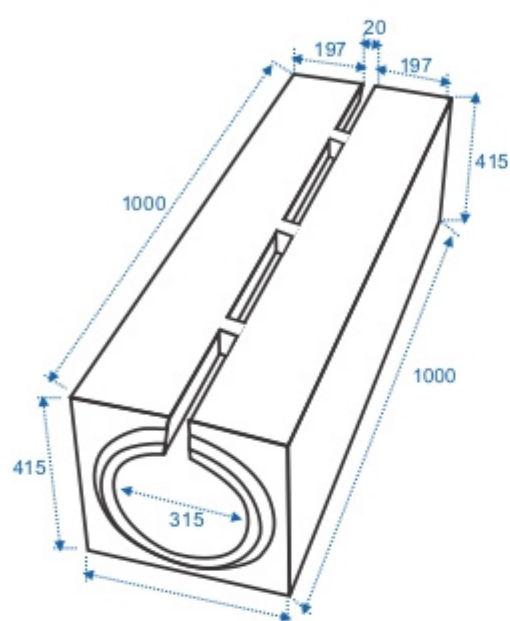
Optional angle at top for installing pavers



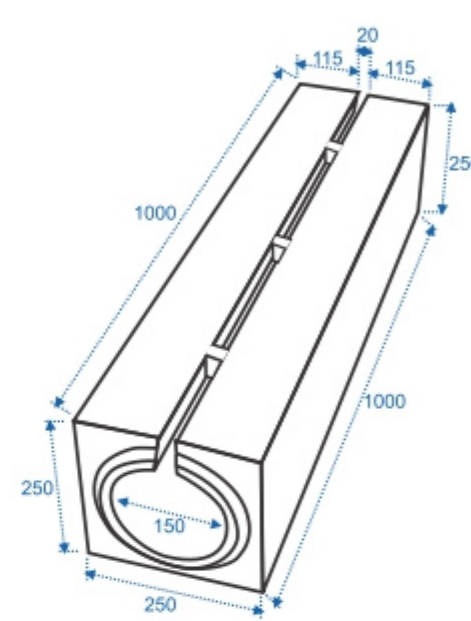
SLIT-02



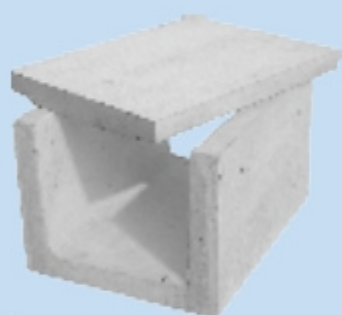
Optional angle at top for installing pavers



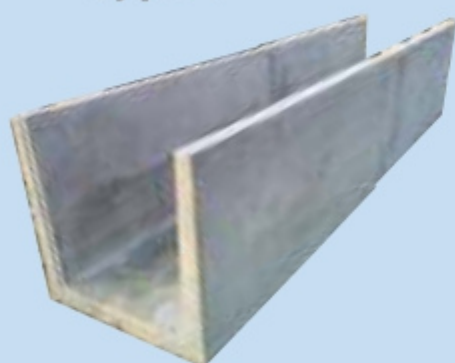
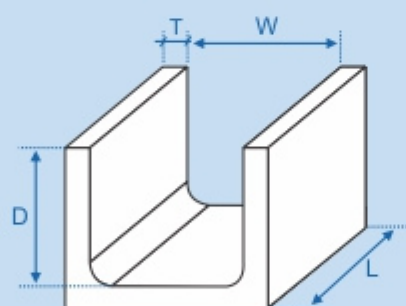
Product Code	Width	Length	Pipe Dia
SLIT-01	250	1000	150
SLIT-02	415	1000	315



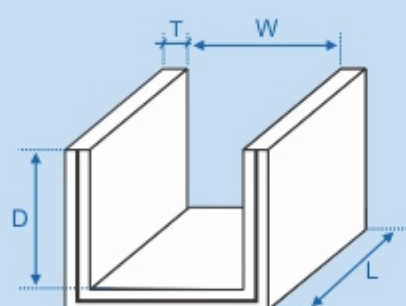
U-DRAIN



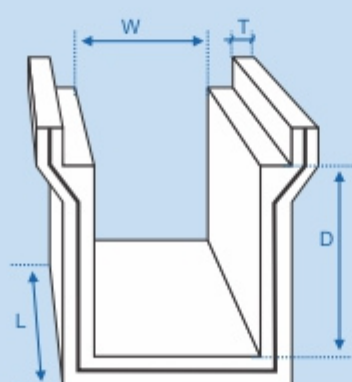
Type 1



Type 2



Type 3

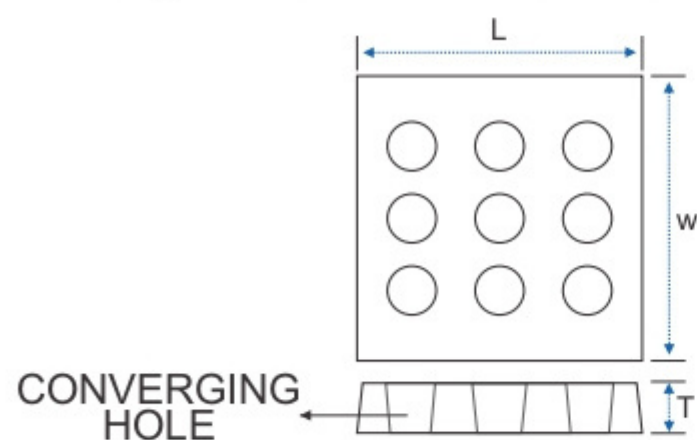


Product Code	W	D	T	L
DR-01	300	300	50	500
DR-02	300	375	50	500
DR-03	300	450	50	500

DR-04	355/340	315	60/65	610
DR-05	585/610	310	50/70	610
DR-06	705/675	355	57/80	475
DR-07	855/890	300	110/80	500
DR-08	760	800	Variable	2000
DR-09	580	450	Variable	2000
DR-10	450	450	Variable	1000/2000
DR-11	600	600	Variable	2000
DR-12	450	600	Variable	2000

DR-13	600	600	Variable	2000
DR-14	900	900	Variable	2000

DRAIN/TRENCH COVER



SPECIFICATION

- M - 30 grade of concrete.
- Suitable draft angles provided for ease of demoulding.
- Holes if provided can be converging or diverging based on requirement.
- Lifting hooks can be provided.
- Tolerance
Thickness : $\pm 2\text{mm}$
Length & width : $\pm 10\text{mm}$
- Suitably reinforced based on load requirement.



L (LENGTH)	W (WIDTH)	T (THICKNESS)
500	400	50
500	400	60
500	400	70
500	430	70
550	300	60
600	300	50
600	300	60
600	300	70
600	300	100
600	400	60
600	400	65
600	400	70
600	450	60
600	450	70
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600	450	100
600	550	60
600	550	70
600	550	90
600	550	60
600	600	100

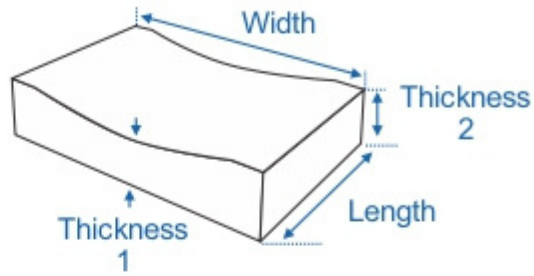
L (LENGTH)	W (WIDTH)	T (THICKNESS)
650	600	60
660	380	75
710	610	75
710	610	200
750	600	70
750	600	90
800	400	70
800	500	100
900	400	70
900	450	50
900	450	70
900	450	90
900	600	100
977	475	270
1100	550	75
1150	400	100
1200	450	60
1200	600	100
1500	300	70
1500	760	100

All Dimensions are in "mm"

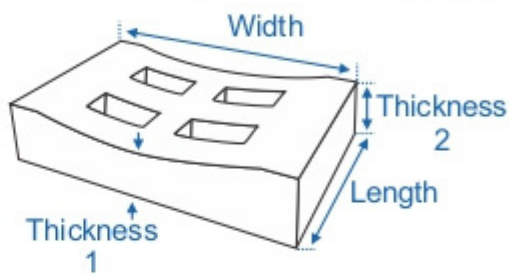
* THICKNESS CAN BE INCREASED FURTHER TO ACCOMMODATE GREATER LOADS.

SAUCER DRAIN

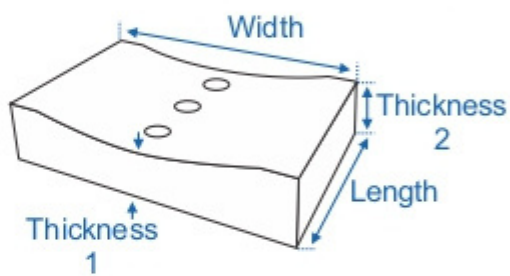
Saucer Drain (Plain)



Saucer Drain (Perforated) Type A



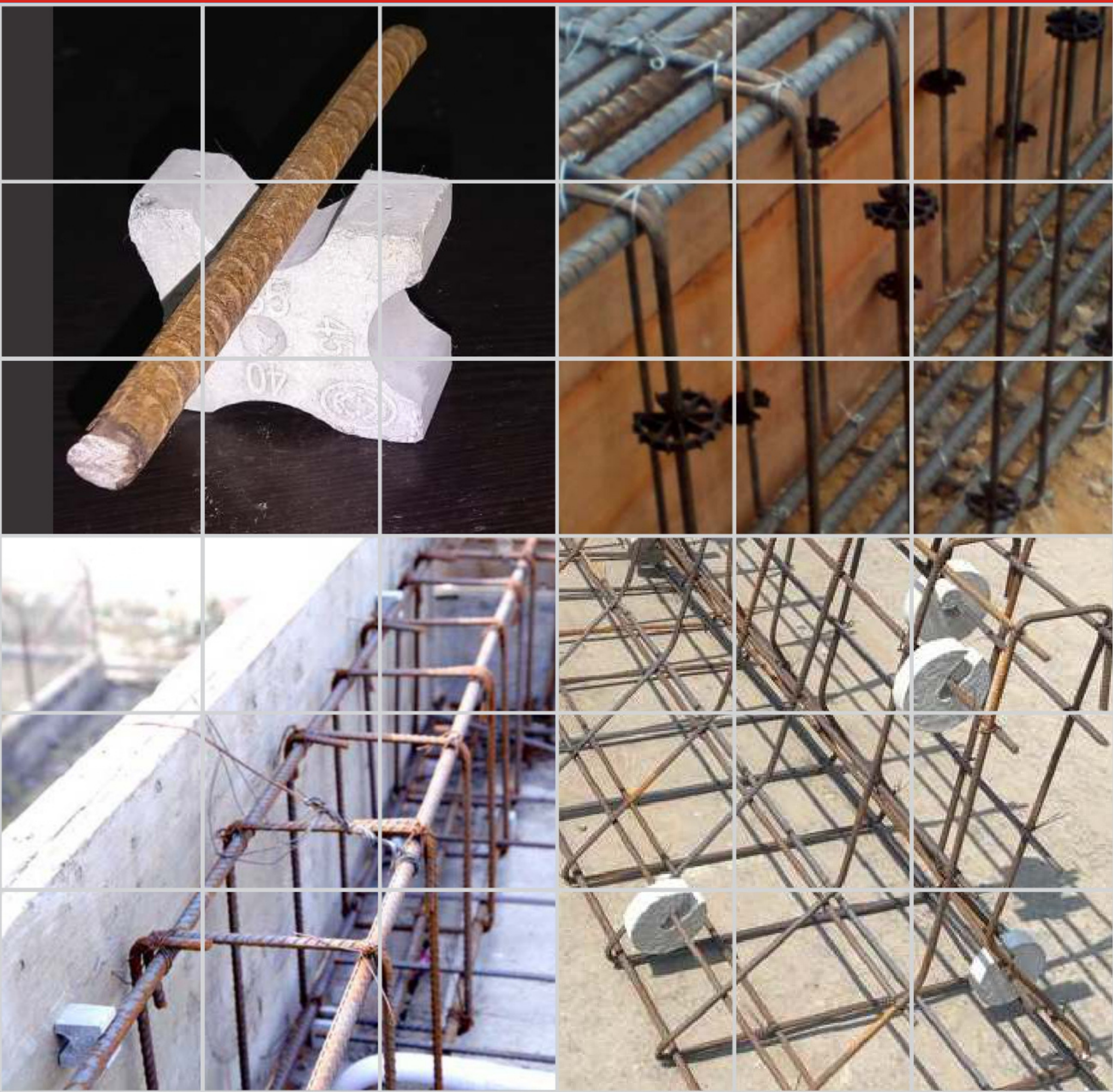
Saucer Drain (Perforated) Type B



Product Code	Width	Length	Thickness ₁	Thickness ₂	Description
SD-01	450	300	75	100	Plain
SD-01H	450	300	75	100	Perforated Type A
SD-02	450	600	75	100	Plain
SD-02H	450	600	75	100	Perforated Type B
SD-03	600	450	75	100	Plain
SD-03H	600	450	75	100	Perforated Type B
SD-04	300	300	75	100	Plain
SD-05	300	600	75	100	Plain
SD-05H	300	600	75	100	Perforated Type B
SD-06	300	900	75	100	Plain
SD-06H	300	900	75	100	Perforated Type B
SD-07	300	900	50	75	Plain
Saucer Drain with Frame	Clear Opening : 500x350 Frame Thickness: 150				Cover + Frame



COVER BLOCKS



THE FEATURES OF KK SPACERS / COVER BLOCKS

We provide world class quality spacers and cover blocks to exceed demanding, construction standards.

The cover blocks are designed to withstand the harsh conditions of a construction site while ensuring proper cover to the reinforcement.

CONCRETE, & PLASTIC COVER BLOCKS.

	Code : KF-20/25 Concrete cover : 20 or 25mm Max Rebar : 16 mm
	Code : KF-25 Concrete cover : 25 mm Max Rebar : 16 mm
	Code : KF-30/40 New Concrete cover : 30 or 40 mm Max Rebar : 18 mm
	Code : KF-50/60 Concrete cover : 50 or 60 mm Max Rebar : 40 mm
	Code : KF-65/75 Concrete cover : 65 or 75 mm Max Rebar : 40 mm
	Code : KF-35/40/45/50 Concrete cover : 35 or 40 or 45 or 50mm Max Rebar : 16 mm
	Code : KF-75 Concrete cover : 75 mm Max Rebar : 40 mm

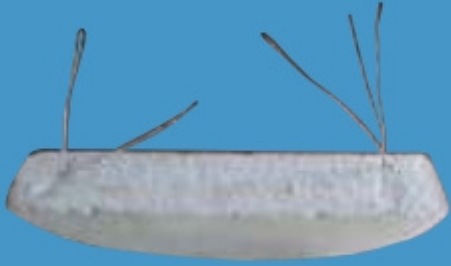
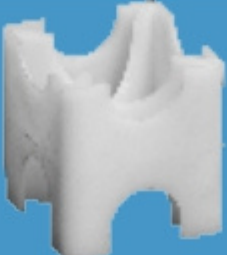
COVER BLOCKS

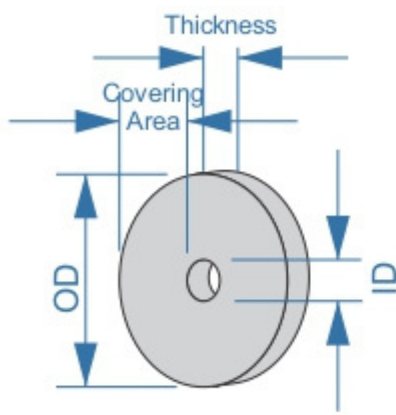
	Code : KRSWF-25 Concrete cover : 25 mm Max Rebar : 40 mm
	Code : KSWF-40 Concrete cover : 40 mm Max Rebar : 40 mm
	Code : KSWF-50 Concrete cover : 50 mm Max Rebar : 40 mm
	Code : KSWF-75 Concrete cover : 75mm Max Rebar : 40mm
	Code : KPSCL-40 Concrete cover : 40mm Max Rebar : 12 mm
	Code : KPSCL-50 Concrete cover : 50 mm Max Rebar : 12 mm
	Code : KPCCL-30 Concrete cover : 30 mm Max Rebar : 12 mm
	Code : KPCCL-40 Concrete cover : 40 mm Max Rebar : 12 mm
	Code : KPCCL-50 Concrete cover : 50 mm Max Rebar : 12 mm
	Code : KPCCL-40 New Concrete cover : 50 mm Max Rebar : 12 mm

COVER BLOCKS

	Code : KPCCL-50 New Concrete cover : 50 mm Max Rebar : 12 mm
	Code : KCWF-30 Concrete cover : 30 mm Max Rebar : 40 mm
	Code : KCWF-40 Concrete cover : 40 mm Max Rebar : 40 mm
	Code : KCWF-50 Concrete cover : 50 mm Max Rebar : 40 mm
	Code : KCWF-40 New Concrete cover : 40 mm Max Rebar : 40 mm
	Code : KCWF-50 New Concrete cover : 50 mm Max Rebar : 40 mm
	Code : KC-25 (New) Concrete cover : 25 mm Max Rebar : 16 mm
	Code : KC-40 (New) Concrete cover : 40 mm Max Rebar : 16 mm
	Code : KC-50 (New) Concrete cover : 50 mm Max Rebar : 32 mm
	Code : KC-65 (New) Concrete cover : 65 mm Max Rebar : 16 mm

COVER BLOCKS

	Code : KC-75 (New) Concrete cover : 75 mm Max Rebar : 16 mm
	Code : K-50 HD Concrete cover : 50 mm Max Rebar : 40 mm
	Code : K-75 ELLIPTICAL Concrete cover : 75 mm Max Rebar : 40 mm
	Code : PC-20 Concrete cover : 20 mm Max Rebar : 8 mm
	Code : PC-40 Concrete cover : 40 mm Max Rebar : 12 mm
	Code : PC-65A Concrete cover : 65 mm Max Rebar : 16 mm
	Code : PC-65B Concrete cover : 65 mm Max Rebar : 16 mm
	Code : PS-30 Concrete cover : 15/20/25/30 mm Max Rebar : 16 mm
	Code : PS-50 Concrete cover : 35/40/45/50 mm Max Rebar : 25 mm
Terminology: K- Koncrete, P- Plastic, S- Square, C- Circular, R- Rectangular, CL-Clip, W- Wire, F- Fiber	



S. NO.	MODEL NO.	OD	ID	THICKNESS	OD	ID	COVERING AREA
1	KC - 60	145	25	20	150	15	60
2	KC-65	165	35	60	170	30	65
3	KC-70	165	25	25	170	15	70
4	KC1-75	175	25	30	178	22	75
5	KC2-75	175	25	60	180	20	75
6	KC3-75	175	25	40	180	20	75
7	KC4-75	185	35	40	195	30	75
8	KC5-75	183	33	20	190	30	75
9	KC-80	190	30	20	196	27	80

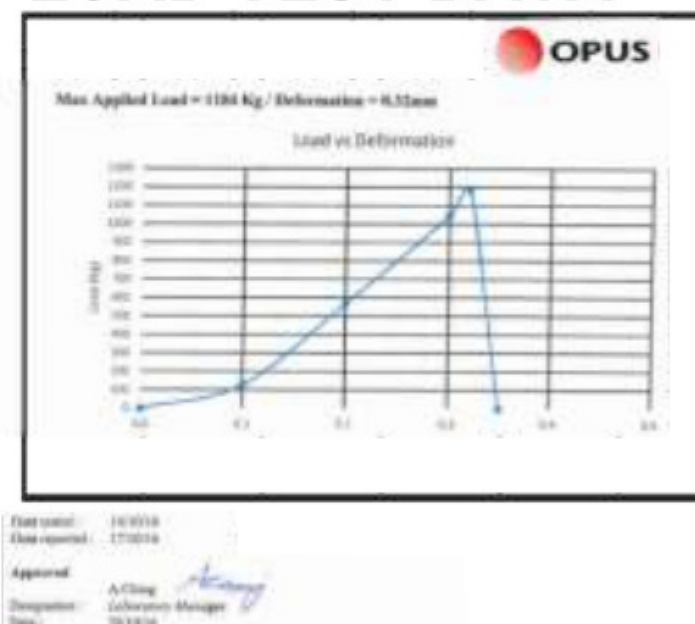
TECHNICAL INFORMATION

- Concrete cover ranging from 20-75mm
- Material : M-50 grade concrete or polypropylene copolymer or polyethylene

APPLICATIONS

- Column cage spacing.
- Slab bar support
- Per stressed construction
- Bridge beams
- Civil precast construction
- Piles.

LOAD TEST DATA



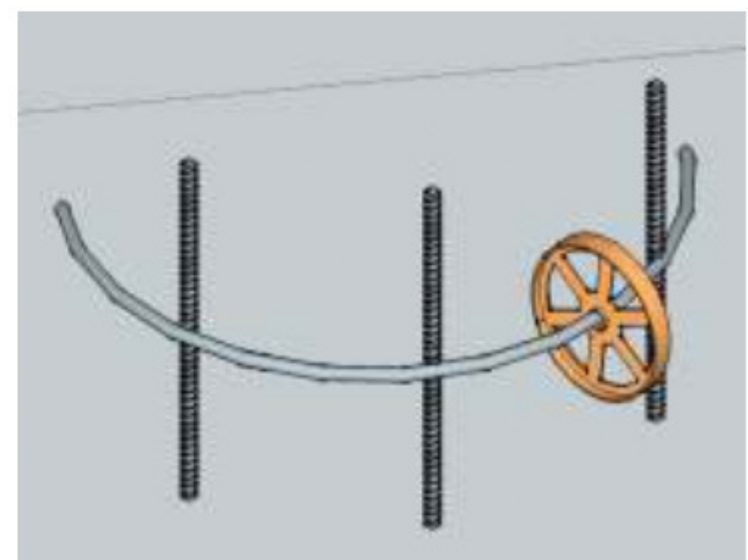
SLAB



BEAM/COLUMN



PILES



**MADE FROM M-50
GRADE CONCRETE**

COPING STONE

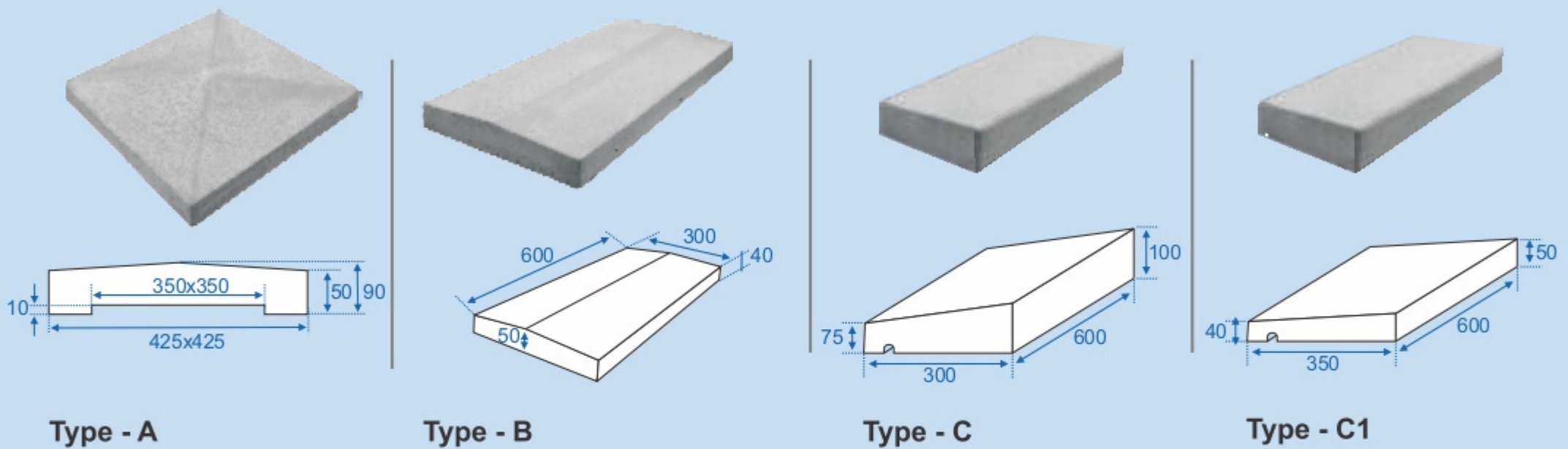


OVERVIEW

Precast concrete wall caps or coping can be placed on any wall to add protection and beauty. We offer coping in several standard sizes in varying colors and finishes.

Coping can also be provided with drip grooves on the underside so that the rain water flows from the edge to the drip groove and drops to the ground instead of reaching the wall and leaving unsightly water marks.

PRODUCT RANGE



How to specify?

When deciding what size of wall cap to use, calculate the width of the wall and add least 3/4" on each side for overhang. An overhang will allow the water to drip off of the edge and protect the wall beneath.

TOILET



OVERVIEW

The toilet is ideal for Indian villages and construction sites. The toilet has an Indian style or western style WC which can be connected to a septic tank or sanitary sewer.

It is an all RCC construction which is manufactured in multiple components. These components are transported to the site and assembled using nuts & bolts. The toilet is durable, maintenance free, cost effective and vandalism and theft resistant.



TECHNICAL INFORMATION

- Size:- 1010 mm Width x 1220 mm Depth x 2310 mm Height.
- Weight once assembled is 900 kgs.
- Frames & panels are manufactured from SFRC using M-30 grade concrete
- Door is manufactured from 12mm thick laminated cement particle board.
- Side panels are 25mm thick while the bottom panel is 40mm thick.
- Suitable hinges are provided for the door to swivel.
- A Unique lock is provided which is lock able from either inside or outside but never both.