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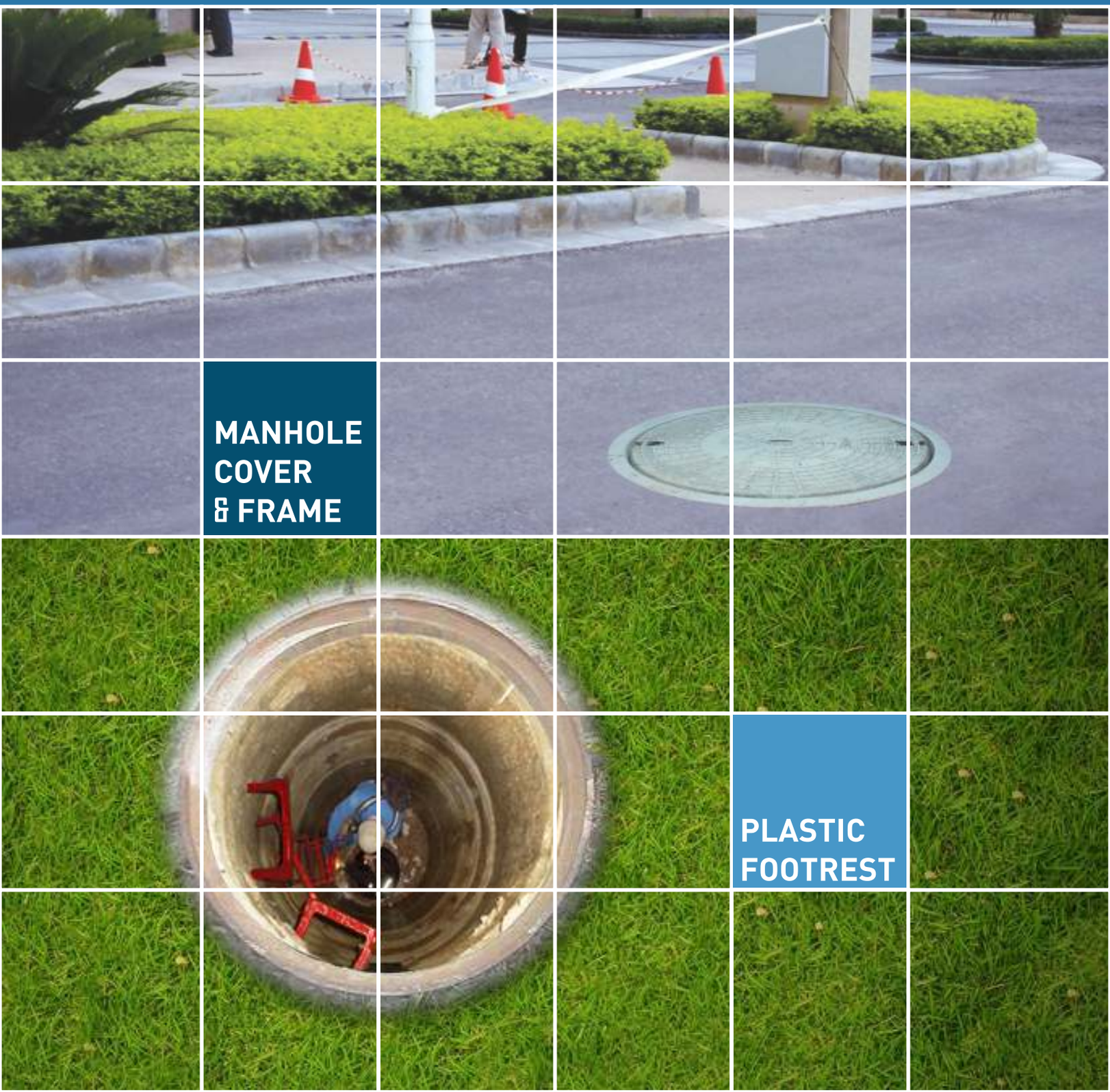
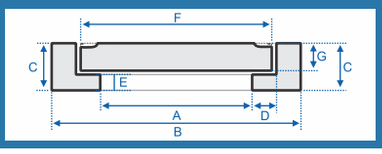
SEWAGE DRAINAGE



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.

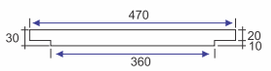
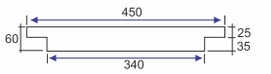
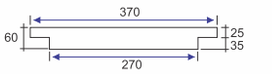


CAPACITY :- HD - 20 TON | MD - 10 TON | LD - 2.5 TON

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

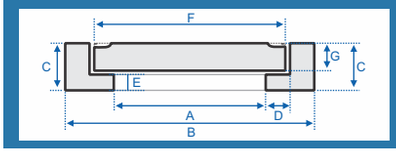
(*) above covers can be provided with holes

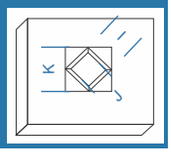
TANK LIDS

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.





Product Code	Product Description	Shape	Frame Details					Cover Details	
			A	B	C	D	E	F	G
MHCF-1	600 HD	Cirular	600	920	165	75	75	760	90
MHCF-2	560 HD	Cirular	560	880	165	75	75	720	90
MHCF-3	450 HD	Cirular	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	Cirular	600	820	125	50	55	700	70
MHCF-11	560 MD	Cirular	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

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

Product Code	Product Description	Shape	Frame Details					Cover Details		Sump Cover
			A	B	C	D	E	F	G	H
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

4 GOOD REASONS WHY YOU SHOULD USE KK MANHOLE COVERS AND FRAMES

(BESIDES THE FACT THAT THEY ARE STRONG)

1. Our Covers will always be removable from the frame

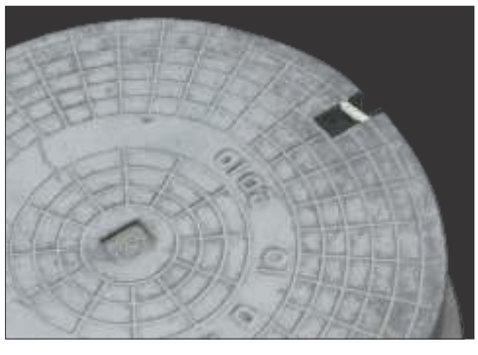
In typical IS-standard cover a mild-steel strip is provided around the cover as edge protection. This strip tends to get corroded over a period of time which eventually results in cover getting permanently stuck in the frame. Our covers do not suffer the same fate as we don't provide ms strip.

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 longtime 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.

INSTALLATION GUIDELINES

1. Do not cantilever the frame

RCC Frame is not built to take on tensile loads. However, it is able to take sufficient compressive loads. Therefore the frame should be fully supported on the support structure, i.e., Chamber walls or Slab. The frame may fail if it is not fully supported

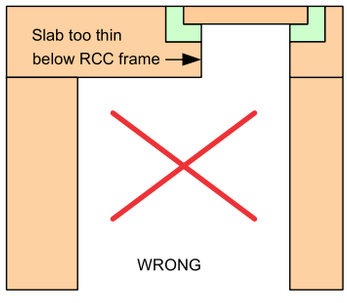
2. Please ensure that the structure on which the Frame is placed is able to take the load which is expected from the RCC manhole cover

Please note that loads acting on the RCC Manhole Cover and Frame are transferred to the chamber walls or slab on which the frame is placed. Therefore, the support structure (Chamber wall or Slab) should be designed and built to carry the loads. Not doing so may result in failure of the support structure. In some cases this gives an impression that the cover has failed while in reality the support structure buckles or collapses under the load.

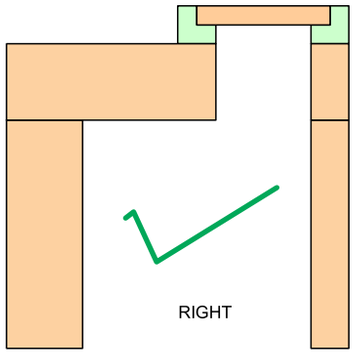
3. Never make the Frame a part of the Slab

In some cases the workmen while making arrangements for the Frame, casts the frame along with the slab (refer to Figure 1). In doing so the thickness of the slab on which the frame is resting is very thin. This will result in failure of the structure as the slab on which the frames rests is not able to bear the load expected of the RCC Cover.

Figure 1: Right and Wrong Way of Casting Slab



RCC FRAME CAST WITH SLAB

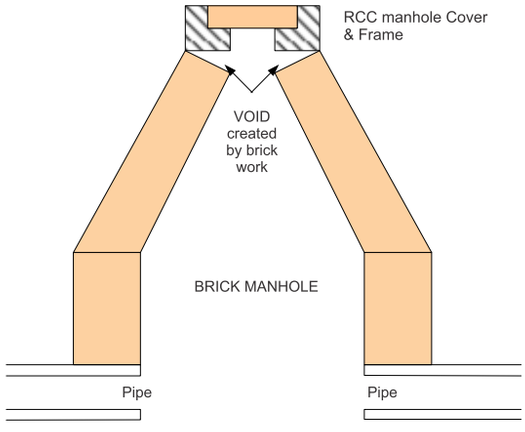


RCC FRAME PLACED ON TOP OF SLAB

4.

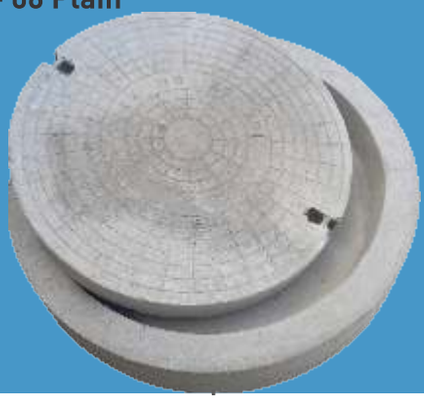
Prepare the top of the brick manhole by concrete so as to make it leveled Often when workmen are constructing a conical manhole from brick, they have a tendency to keep the RCC frame on top of the brick manhole while leaving a big gap between the top surface of the brick manhole and the bottom surface of the RCC frame (refer to Figure 2). They are working with the assumption that eventually the gap will be filled by mortar. In reality, this gap is never filled properly because of the inward slope of the inside surface of the brick manhole. As a result, the concrete filled in the gap will never have perfect contact with the bottom of the RCC Frame. This may result in sheer failure of the frame seating because the frame is not designed to carry tensile loads.

Figure 2: Problem with Construction of Brick Manhole



GGCF - 01

MHCF - 06 Plain

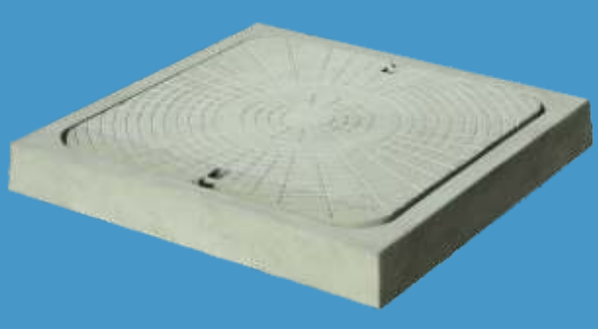


MHCF - 06 With Hole

MHCF - 08

MHCF - 10

MHCF - 14



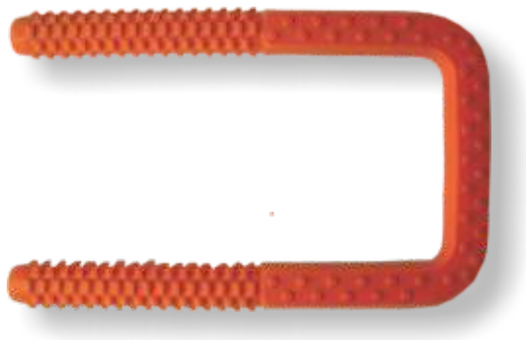
MHCF - 15

MHCF - 16

MHCF - 19

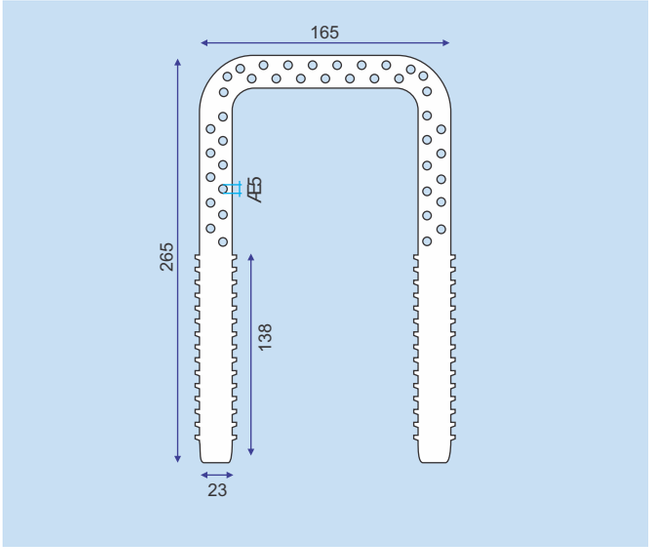
MHCF - 20

PLASTIC FOOTREST



KK plastic footrest is a uniquely designed polypropylene plastic encapsulated steel reinforced manhole safety step. It is a superior alternative to conventional mild steel / cart 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.

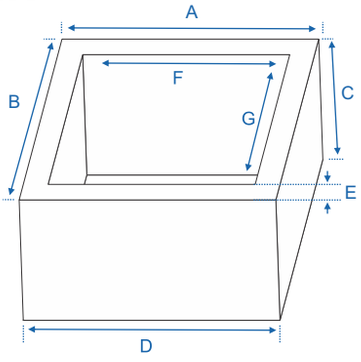
PRODUCT DIMENSIONS

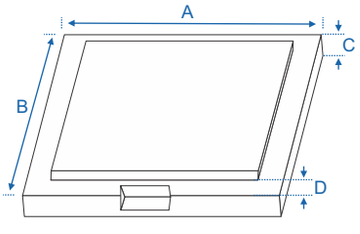


Technical information

- 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	-	-	-

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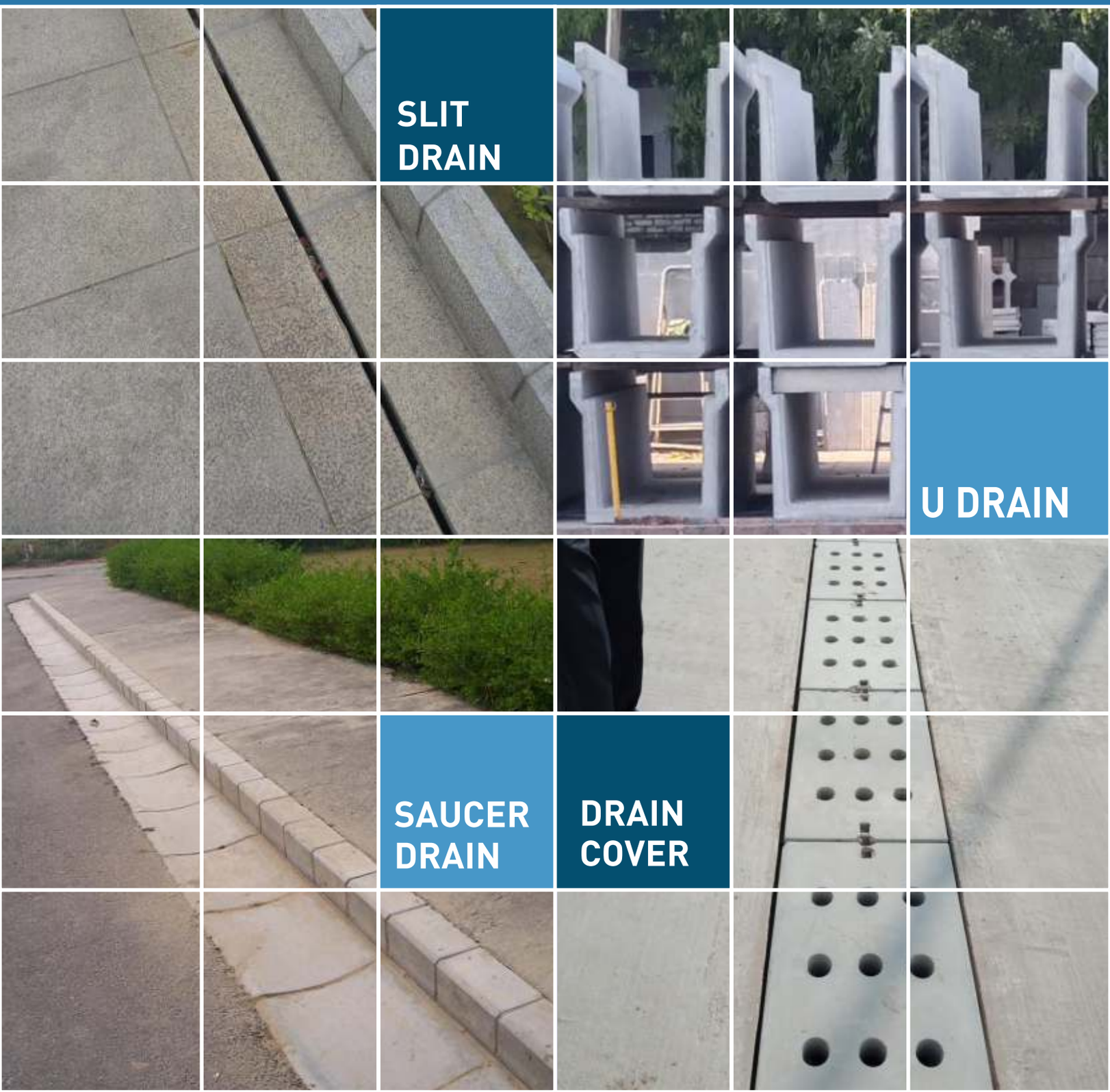
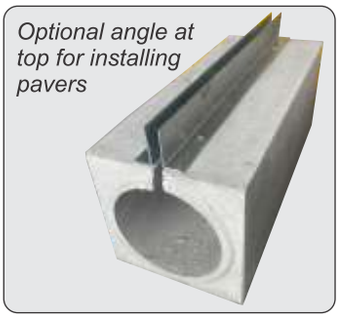
STORM WATER DRAINAGE

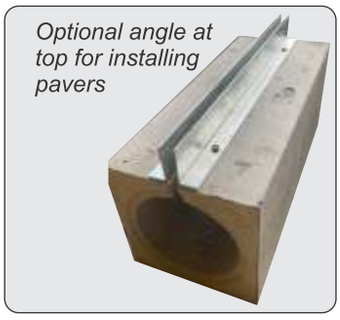


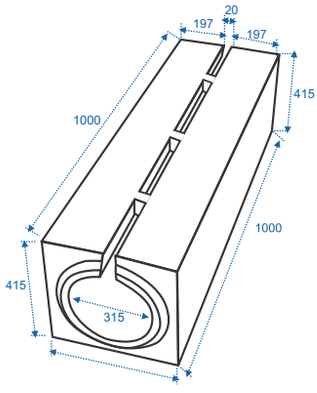
SLIT DRAIN SYSTEM

SLIT-01

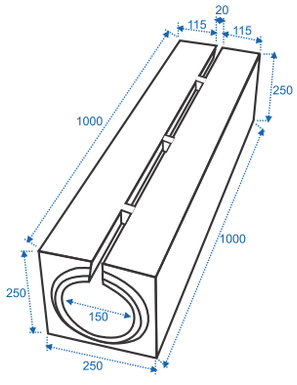


SLIT-02



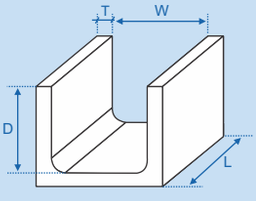


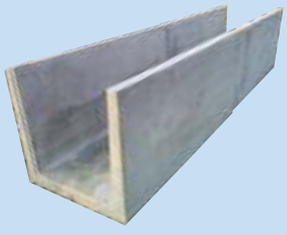
Product Code	Width	Length	Pipe Dia
SLIT-01	250	1000	150
SLIT-02	415	1000	315



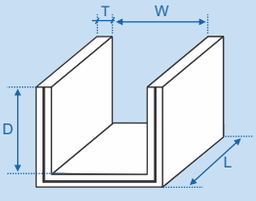
U-DRAIN

Type 1

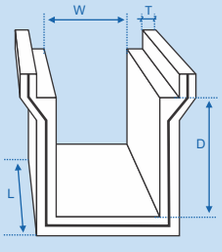




Type 2

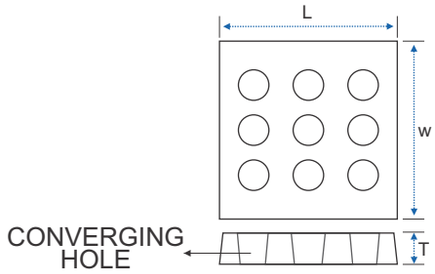


Type 3



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 : ± 2mm
  Length & width : ± 10mm
- 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
600	450	80
600	450	88
600	450	100
600	550	60
600	550	70
600	550	90
600	550	60
600	600	100

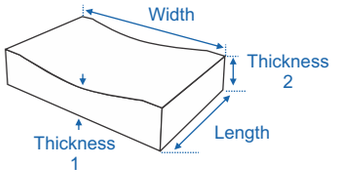
L (LENGTH)	W (WIDTH)	T (THICKNESS)
650	600	60
660	380	75
710	610	75
710	610	200
750	600	70
750	600	90
800	400	70
800	500	100
900	400	70
900	450	50
900	450	70
900	450	90
900	600	100
977	475	270
1100	550	75
1150	400	100
1200	450	60
1200	600	100
1500	300	70
1500	760	100

All Dimensions are in "mm"

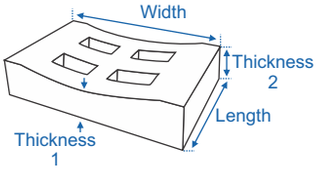
*** THICKNESS CAN BE INCREASED FURTHER TO ACCOMMODATE GREATER LOADS.**

SAUCER DRAIN

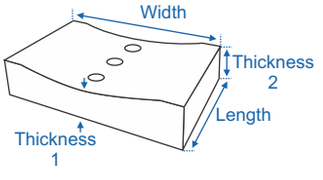
Saucer Drain (Plain)



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

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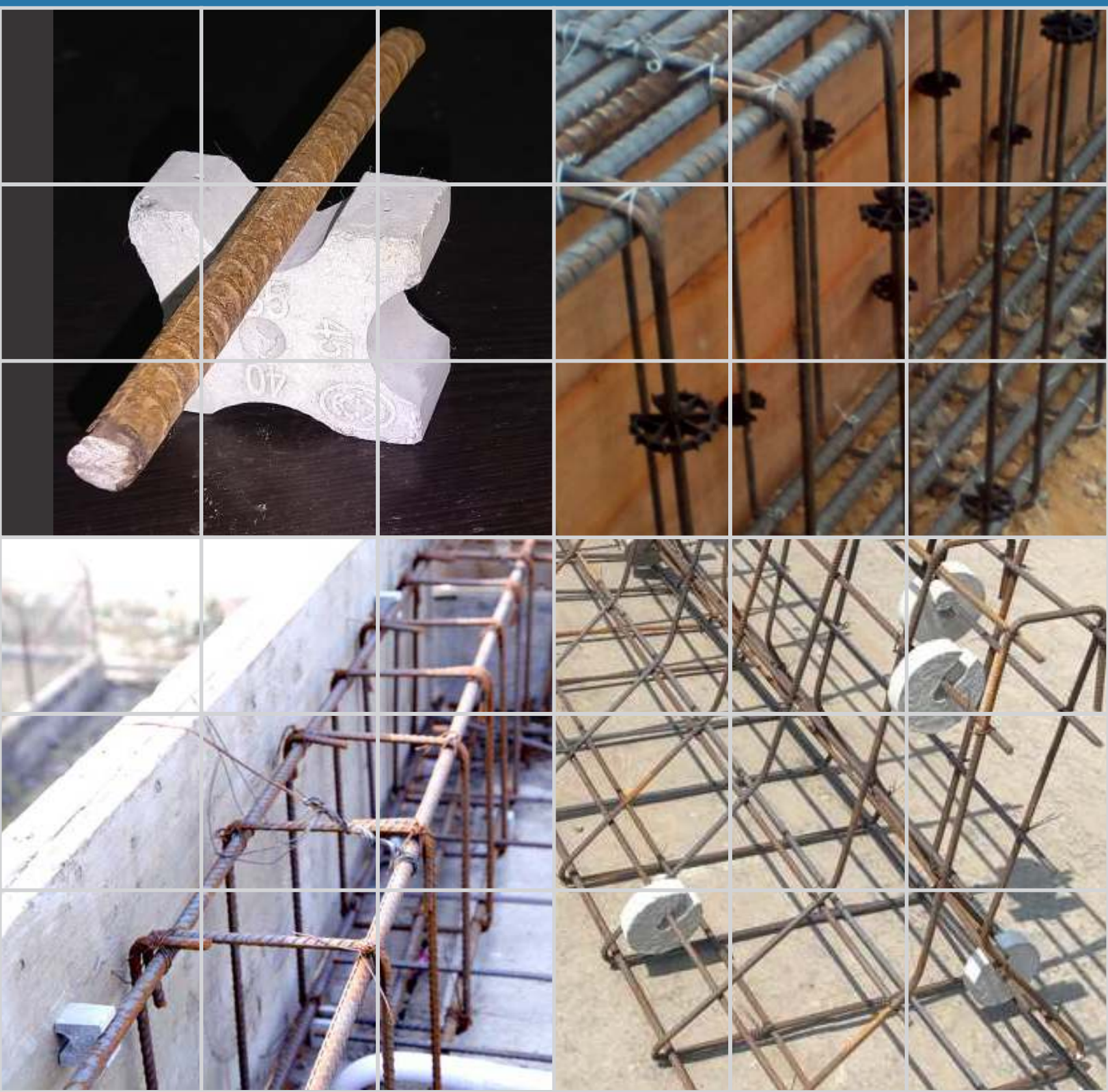
COVER BLOCKS



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

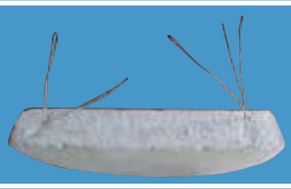
Code : KC-50 (New)
Concrete cover : 50 mm
Max Rebar : 32 mm

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

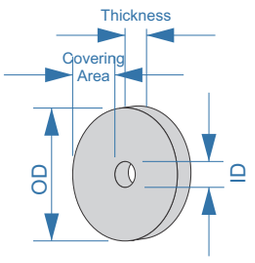
Code : PC-65B
Concrete cover : 65 mm
Max Rebar : 16 mm

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

COVER BLOCKS



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

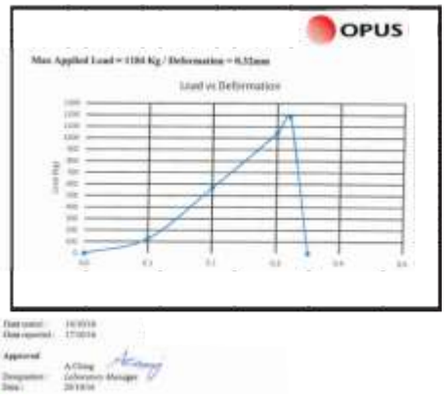
TECHNICAL INFORMATION

- 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.

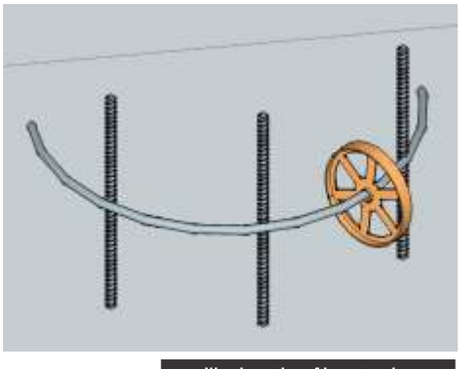
LOAD TEST DATA



SLAB

BEAM/COLUMN

PILES



MADE FROM M-50 GRADE CONCRETE

Watch a video of how circular cover block is installed in pile

QR Code

"Home of Innovative & Quality Solutions for Construction since 1984"

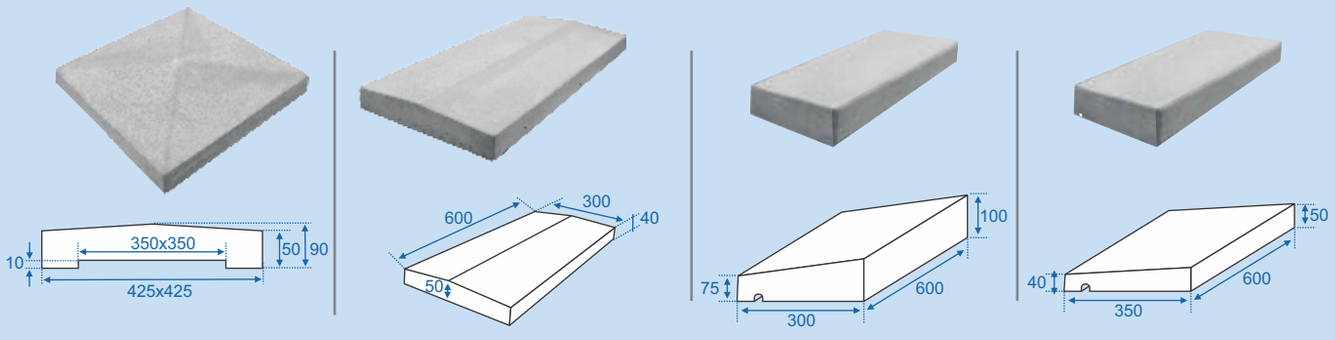
COPING STONE

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



Type - A **Type - B** **Type - C** **Type - C1**

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.

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TOILET

TOILET

OVERVIEW

The KK 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.