



CATCH BASIN

LOAD CLASS
HUMAN
LOAD



Mantra
DRAIN SOLUTIONS

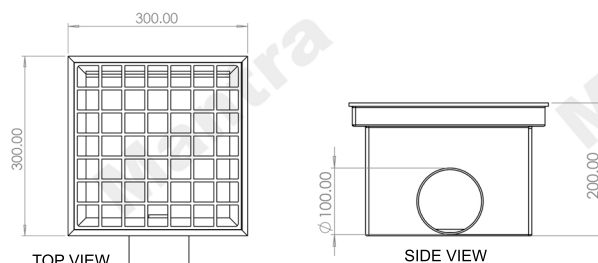
APPLICATIONS OF CATCH BASIN

Road Carriageways (not transversal)

Hard Shoulders

Lay-bys with thick & Heavy-goods traffic

Petrol Stations



TECHNICAL DATA SHEET FOR COMPOSITE CATCH BASIN WITH FRP MOLDED SQUARE MESH GRATING

CODE	MATERIAL	DIMENSIONS	INNER DIMENSIONS	DRAINAGE AREA	WEIGHT
M31	Composite catch basin with bottom outlet of Dia 100mm with FRP moulded square mesh grating	300 x 300 x 200	280 x 280 x 165	0.064 m ²	3.67 KG

M26, FRP GRATING 50MM STANDARD SPECIFICATION samples not drawn by Elca the above sample has been tested and the results are as below

LOAD TEST

SN. NO	Parameter/Description	Actual Values	Specification Req	Remark
1	Load in KN	Deflection in mm		
2	at 5 KN	0.0		Test carried out as per EN 124-5/6.2 sample not
3	at 6 KN	2.0		crack dia delaminate after testing
4	at 8 KN	4.21		Allowance deflection @Mantra is 1% KN which acceptable
5	at 9 KN	6.43		
6	at 10 KN	8.28		
7	at 15 KN	10.20		
8	at 18 KN			
9	at 20 KN			
10				

Height (MM)	Span (MM)	Concentrated Point Load (KG)	Line Load (KG/M)	Uniform Load (KG/M2)
		Deflection 1% Span		
25	500	300 - 325	525 - 550	2600 - 2650
38 X 75	750	120 - 130	210 - 220	730 - 740
MESH	1000	80 - 90	140 - 150	400 - 410
25	500	260 - 270	450 - 470	2300 - 2350
38 X 38	750	110 - 120	200 - 210	700 - 710
MESH	1000	60 - 70	100 - 120	290 - 300
30	500	460 - 460	800 - 820	4000 - 4010
38 X 38	750	200 - 210	350 - 360	1180 - 1190
MESH	1000	100 - 120	200 - 210	500 - 510
	1500	50 - 60	80 - 90	140 - 150
38	500	930 - 940	1640 - 1650	7900 - 8000
38 X 38	750	410 - 420	1150 - 1160	5600 - 5800
MESH	1000	230 - 240	410 - 420	900 - 900
	1500	100 - 110	160 - 170	290 - 300
	2000	50 - 60	100 - 110	120 - 130
50	500	1000-1050	1800-1850	9000-9500
55 X 55	750	750-800	1550-1600	8000-8500
MESH	1000	600-650	1400-1450	1950-2000
	1500	550-600	1300-1350	1500-1550
	2000	450-500	1250-1300	950-1000

1. For drainage purposes use the drain gate with outlet kit (available in two versions o100 and o110)

N.B Waterproofing in order to ensure the channels are waterproof, a bituminous adhesive sealant should be used. Heat-sealing the channel joints make sure there will be no leakage through said joints for a very long time. For further info, please contact MANTRA DRAIN SOLUTIONS.

N.B. Sizes and weights are subject to usual manufacturing tolerance values.



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