

MANHOLES ASTM C-478

WEIGHTS AND DIMENSIONS—US CUSTOMARY

A	RISER DIAMETER	IN	24	48	60	72	84	96	108	120
B	WALL THICKNESS	IN	3	5	6	7	8	9	9	10
C	OUTSIDE DIAMETER	IN	30	58	72	86	100	114	126	140
D	JOINT DEPTH	IN	2.75	2.75	4.75	5	5	5	5.25	7.5
E	BELL THICKNESS	IN	1.31	2.75	3.28	3.88	4.48	4.93	5	4.5
F	INTEGRAL BASE	IN	6	8	8	8	8	8	8	8
G	RISER HEIGHTS	FT	2	1.33	1.33	1.33				
		FT	3	2.67	2.67	2.67	2.67	2.67	2.67	2.67
		FT		4	4	4	4	4	4	4
		FT		5.33	5.33	5.33	5.33	5.33	5.33	5.33
		FT			8	8	8	8	8	8
H	BASE HEIGHT RISER HEIGHTS CAN ALSO BE USED AS BASE SECTIONS	FT	2		2	2	2	2	2	2
		FT	3		3	3	3	3	3	3
		FT	4	3.33	3.33	3.33	3.33	3.33	3.33	3.33
		FT	4.5		3.67	3.67	3.67	3.67	3.67	3.67
		FT		4.67	4.67	4.67	4.67	4.67	4.67	4.67
		FT		5	5	5	5	5	5	5
		FT		6	6	6	6	6	6	6
		FT			7	7	7	7	7	
I	CONE HEIGHT TO 24"	FT			2.5	3				
					Con.	Con.				
				3						
				4						
	CONE HEIGHT TO 48"	FT			2.67	2.67				
K	LOOSE BASE – 6" THK. OUTSIDE DIA.	IN	44							
		IN	48	72	84	96				
		IN			84	96	108	120		156
L	STEP SPACING	IN		16	16	16	16	16	16	16
M	SPIGOT THICKNESS	IN	1.5	2.5	2.65	3.06	3.57	3.88	2.75	3.5
N	GASKET ANNULAR SPACE	IN	0.19	0.706	0.56	0.56	0.46	0.56	N/A	0.56
O	CONCRETE ANNULAR SPACE	IN	0.19	0.453	0.09	0.09	0.09	0.12	0.50	0.50
	APPROX. WEIGHT / FT.	LB	264	867	1295	1811	2409	3090	3400	4200

NOTE: SOME DIMENSIONS MAY VARY BY MANUFACTURER.
DESIGN ENGINEER SHALL ENSURE DETAIL MEETS AGENCY
REQUIREMENTS.

C						MANHOLE, ASSEMBLY	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION
B							SHEET 2 OF 2
A							02600-05
	DESCRIPTION	DRW	CKD	APP	DATE		DWG No.
REVISIONS							
DRAWN BY: S.D.A.							
CHECKED BY: S.D.A.							
APPROVED:							
SCALE: NONE							