



DRAINAGE TABLES – ROUND GRATES

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Grate Option	Manhole Grate Dia.	Catch Basin Grate Thk.	Sq. In. Opening	Grate Wier Perimeter	Grate Description	Frame Series
V-3610-1	10 1/4	1 1/2	33	32		V-1610-1
3660M	11 5/8	1 1/16	36	37	Light duty (Non-traffic)	3660Z
3660M2	11/58	1 1/16	33	37	ADA	3660Z
V-8501	13	3/4	35	41		V-8501
1150M	13 1/4	1	44	42	Medium duty	1150
1150N	13 1/4	1	50	42	Oval, Medium duty	1150
V-3610-2	13 1/4	1 1/2	54	42		V-1610-2
1750M	13 3/4	2	50	43		1750
V-3610-3	16 1/4	1 1/2	73	51		V-1610-3
1740M	17 3/4	1 1/2	50	56		1740
V-3600-1	19 1/4	1 1/2	110	60		V-1600-1, V-1700-1
1160N	20	3/4	105	63	Oval, Medium duty	1160
1160M	20 1/8	3/4	89	63	Medium duty	1160
3719M	20 1/4	1 1/2	121	64		3719
1060-01	21 3/4	1 1/8	135	68	Beehive	1030, 1060, 1170, 1171, 1180, 2850
1060-02	21 3/4	1 1/2	135	68	Beehive	1030, 1060, 1170, 1171, 1180, 2850
1060M1	21 3/4	1	115	68	Medium duty	1030, 1060, 1170, 1171, 1180, 2850
1060M2	21 3/4	1	145	68		1030, 1060, 1170, 1171, 1180, 2850
1060N	21 3/4	1 1/8	135	68	Oval	1030, 1060, 1170, 1171, 1180, 2850
V-3610-4	21 7/8	1 1/2	159	69		V-1610-4
1130-01	22	1 1/2	135	69	Beehive	1125, 1130, 1135, 1140, 1490
1130-02	22	1 1/2	135	69	Beehive	1125, 1130, 1135, 1140, 1490
1130-03	22	1 1/2	155	69	Beehive	1125, 1130, 1135, 1140, 1490
1130M1	22	1 1/2	115	69	Medium duty	1125, 1130, 1135, 1140, 1490
1130M2	22	1 1/2	145	69		1125, 1130, 1135, 1140, 1490
1130M3	22	1 1/2	170	69	Medium duty	1125, 1130, 1135, 1140, 1490
1130N	22	1 1/2	135	69	Oval	1125, 1130, 1135, 1140, 1490
1660M	22 1/4	1	120	70		1660, 1661
1640M	22 5/8	1 1/2	132	71		1641
1020P	22 11/16	1 3/4	159	71	Concave	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020-01	22 3/4	1 3/4	115	71	Beehive	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020-02	22 3/4	1 3/4	150	71	Beehive	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020-03	22 3/4	1 3/4	155	71	Beehive	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020M1	22 3/4	1 3/4	120	71	DNW	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020M2	22 3/4	1 3/4	150	71	DNW	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020M3	22 3/4	1 3/4	100	71	ADA, DNW	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1020N	22 3/4	1 3/4	135	71	Oval	1020, 1022, 1037, 1050, 1051, 1510, 1550, 1880, 2996
1075M	22 3/4	1 1/8	140	71		1075
1000-01	23	1 1/4	140	72	Beehive, DNW	1000, 1010, 1070
1000-02	23	1 1/4	145	72	Beehive	1000, 1010, 1070
1000-03	23	1 1/4	130	72	Beehive	1000, 1010, 1070
1000M	23	1 1/4	140	72		1000, 1010, 1070
1000N	23	1 1/4	115	72	Oval, DNW	1000, 1010, 1070
1058M1	23	1 1/2	120	72		1058
1058M2	23	1 1/2	120	72	DNW	1058
1850M	23 1/4	1	105	73		1850

Note: All dimensions are in inches.

DRAINAGE TABLES — ROUND GRATES (CONTINUED)

Grate Option	Manhole Grate Dia.	Catch Basin Grate Thk.	Sq. In. Opening	Grate Wier Perimeter	Grate Description	Frame Series
V-3501	23 1/4	1	137	73		1622, 2132, V-1105, V-1402, V-1403, V-1406, V-1501, V-1503
V-3384	23 1/2	1	159	74		V-1384
V-3418-1	23 1/2	1 1/2	166	74		V-1418, V-1480, V-1481, V-1600-2, V-1700-2
1202M	23 3/4	2 1/2	117	75	DNW	1202
1251M	23 3/4	1	148	75		1251
1450M	23 3/4	1	110	75		1450, 1690, 2020, 2035, 2410, 2415, 2416, 2420, 2425, 2430, 2925
1460M	23 3/4	3/4	140	75	Heavy duty	1460
1590M	23 3/4	1 3/8	140	75		1590
1665M	23 3/4	1	175	75		1665
1710M	23 3/4	2	115	75		1710, 1715, 2022, 2023, V-1140, V-1168, V-1243, V-1317
1710-O	23 3/4	2	140	75	Beehive	1710, 1715, 2022, 2023, V-1140, V-1168, V-1243, V-1317
1410M	23 13/16	1 1/8	170	75		1410
1120M	24	1 1/2	125	75		1120
1177M	24	2 1/4	192	76		1177Z
1855M	24 1/4	3/4	62	76	Non-Traffic, ADA, DNW, Logo	1855
1733M	24 7/16	2	161	77	DNW	1733, 2734
3770M	24 1/2	1	156	77		3770
1433M	24 3/4	1 1/4	100	78		1433
1600M	24 3/4	1	175	78		1600
2603M	24 3/4	7/8	185	78		2600, 2601, 2603, 2615, 2640
2603M2	24 3/4	7/8	152	78	ADA	2603, 2625TF, 2615Z, 3020Z
3777	24 3/4	1	153	78	ADA	
2640P	24 3/4	7/8	136	78	Concave	2600, 2601, 2603, 2615, 2640
3700-O	24 13/16	7/8	117	78	Beehive	3700, 3705, 3710
3700M	25	1	152	79	DNW	3700, 3705, 3710
3700M2	25	1	152	79	ADA	3700Z, 3705Z, 3710Z
V-3600-3	25 3/8	1 1/2	180	80		V-1357, V-1600-3, V-1624, V-1700-3
1700M	25 1/2	2	120	80		1700, 1703
1975M	25 1/2	1	125	80		1975Z
1203M	25 3/4	1 3/8	159	81		1203, 1207, 1405
1205-02	25 3/4	7/8	185	81	Beehive	1203, 1204, 1205, 1207, 1405 1936
1205M	25 3/4	7/8	200	81	DNW	1203, 1204, 1205, 1207, 1405 1936
V-3312	25 3/4	1 1/2	215	81		V-1312
3772M	25 3/4	1	164	81	DNW	
1040-02	26	1 1/2	185	82	Beehive	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1040M1	26	1 1/2	190	82	DNW	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1040M2	26	1 1/2	170	82	DNW	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1040M3	26	1 1/2	130	82	ADA, DNW	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1040N	26	1 1/2	140	82	Oval	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1040N1	26	1 1/2	232	82	Oval	1040, 1045, 1046, 1047, 1048, 1049, 1080, 1795, 2800
1720N	26	1 5/8	140	82	Oval	1720
1720P	26	1 9/16	180	82	Concave	1720
3730M	26	1 3/4	170	82		3730
3726M	26 3/16	1	142	82		3725
2870M	27	2 1/2	236	85	Catch basin grate	2870Z
8075MVH	27 3/4	1	124	87	ADA	
2100M	27 7/8	1 3/8	205	88	DNW	2100, 2101
V-3610-5	27 7/8	1 1/2	243	88	DNW	V-1610-5
1890M	28 3/4	1 3/8	244	90		1890, 1891

Note: All dimensions are in inches.



DRAINAGE TABLES — ROUND GRATES (CONTINUED)

Grate Option	Manhole Grate Dia.	Catch Basin Grate Thk.	Sq. In. Opening	Grate Wier Perimeter	Grate Description	Frame Series
1266M	31 9/16	1 1/8	182	99		1266
1811M	31 11/16	1 5/16	240	100		1230, 1232, 1234, 1820, 1825, V-1600-4, V-1700-4, V-7032
V-3600-4	31 7/8	1 3/8	350	100		1230, 1232, 1234, 1820, 1825, V-1600-4, V-1700-4, V-7032
8025MVH	31 15/16	1 3/8	209	100	ADA	8027
1480M1	31 15/16	1 1/2	262	101	ADA, DNW	1320, 1322, 1480, 2810, V-1419, V-1420, V-1432
1320M	32	1 1/2	360	101	Cross bar	1320, 1322, 1480, 2810, V-1419, V-1420, V-1432
1322M	32	1 1/2	240	101		1320
1480M	32	1 1/2	275	101	Non-Traffic	1320, 1322, 1480, 2810, V-1419, V-1420, V-1432
8028MVH	32 1/4	1 3/8	209	101	ADA	8027
2880M	32 3/4	2	2419	103		2880Z TF
V-7069	33 3/4	1 3/8	236	106	ADA	V-7069-1
V-3610-6	33 7/8	1 1/2	350	106		V-1610-6
1330M	35	2	375	110		1330
1585M	36	1 1/2	400	113		1585, 1586
8029MVH	37 1/4	1 1/2	308	117	ADA	
V-3600-5	38	2	480	119		V-1600-5, V-1700-5
1580M	38 1/2	1 1/2	468	121	Heavy duty & Extra Heavy duty	1581, 1821, 2815
1580M2	38 1/2	1 1/2	304	121	ADA	1581, 1821, 2815
V-3610-7	39 5/8	1 1/2	516	125		V-1610-7
1843M1	44 1/8	2	639	139		1843, 1845
V-3610-8	45 5/8	1 1/2	810	143		V-1610-8
V-3600-6	50 1/4	2	760	158		V-1600-6, V-1700-6

DRAINAGE TABLES — CATCH BASIN GRATES

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Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
5000M3	10	58	81	Restricted Flow, DNW	5000, 5020, 5080
V-5708	33	28	38		V-5708
8201M	50	41	55	ADA	8201, 8301
5100M2	50	66 3/8	88 1/2	Restricted Flow (variable)	5100, 5125
V-5713	55	40	54		V-5613, V-5713
V-5712	66	36	48		V-5712
7797M	70	41	54		7797
V-5714	76	44	58		V-5714
V-5716	90	48	64		V-5716
7720M	100	48	68		7720
7700M2*	100	59	83	Vane, DNW	7700
7700M3*	100	59	83	Bi-directional Vane, DNW	7700
V-5720-80	105	59	79	ADA	V-5620, V-5720
5800M1	112	51	73		5150

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