



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

EJIW is continually adding new construction castings and drainage grates to our product offering. Please consult with your EJIW representative or email us at ejjwsales@ejjw.com to request a sales drawing not shown in this catalog.

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

Note: All dimensions are in inches.

DRAINAGE TABLES – CATCH BASIN GRATES (CONTINUED)

Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
7700M1	128	59	83	Diagonal, DNW	7700
5800M2	130	51	73		5150
7463M2*	130	57	81	Vane	7464
7700M4	135	59	83	ADA, Diagonal, DNW	7700
5031M	140	56	78	Concave	5030, 5031
5030M	140	56	79	Concave,	5030
5090M	144	54	72		5090
5120M	148	54	77		5120
5110M5	148	83	110	ADA	5110
5190M2	150	59	89	Sinusoidal, two grate unit available	5190, 5191, 5192, 5193
V5718	152	54	72		V-5718
V4274	155	54	81		V-4274
8205M	155	65	86		8205, 8305
V-5622-80	156	71	95	ADA, DNW, Two grate unit available	5235, 5236, 5250, V-4875, V-5622
V-5751	158	54	80		V-5751
5000M1	160	58	81	DNW	5000, 5020, 5080
5000M2	160	58	81	Sinusoidal, DNW	5000, 5020, 5080
V-5724-80	164	72	96	ADA	V-5724
V-5720	175	59	79		V-5620, V-5720
5105M1	175	66	89	Sinusoidal, DNW	5100, 5125
5344M*	175	71	95	Vane	5342, 5344, 5370, V-5324-1
V-4410	195	66	88	Valley Gutter	V-4410-1, V-4410-2, V-4410-3
5391M	180	71	94		5391
8222M	185	62	87		8222, 8322
7750M1	185	64	88	Herringbone, DNW	7750
5340M	185	65	87	DNW	5340
V-5752	188	60	84		V-5752
7765M*	189	63	94	Vane	7765, 7766
V-5726-80	194	77	103	ADA	V-5626, V-5726
V-5624-80	194	77	103	ADA, DNW	V-5624
V-4873-1	195	86	123	ADA	V-4873
V-4230-2*	195	66	97	Vane	V-4230, V-4231
5335M	200	63	93	Concave	5335
V-4246	200	66	96	DNW	V-4246
5250M	200	71	95	DNW	5250, 5235, V-4875, V-5622
7569M1	205	67	94		7569
7569M2	205	67	94	Concave	7569
5130M2	210	66	93	DNW	5130
5245M	210	71	107	DNW	5245
5370M	215	71	95		5370
7750M2*	216	64	88	Vane, DNW	7750
7750M3*	216	64	88	Bi-directional Vane, DNW	7750
7600M*	220	65	95	Vane, DNW	7600, 5460
8206M	220	71	94		8206, 8306
V-4275	220	71	100		V-4275
7075M1	220	72	96	Sinusoidal	7076
7466M2*	225	69	93	Vane	7466, 7467
7030M5	225	71	107	Diagonal	5245, 7030, 7031, 7032, 7035, 7037

* 2-sided perimeter suggested for vane grate calculation

Note: All dimensions are in inches.



DRAINAGE TABLES – CATCH BASIN GRATES (CONTINUED)

Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
7750-0	229	64	88	Beehive	7750
5130M1	235	66	93		5130
7535M*	235	68	90	Vane, Two grate unit available	7535
5410M	239	69	107	Concave	5410
V-4243-1	240	63	93	DNW	V-4240, V-4241, V-4854
5130M3	240	66	93	Diagonal	5130
V5324	243	72	96	Concave	V-5324
5050M	245	78	104		5050
5380M*	250	68	90	Vane	5380
V-4435	251	78	108	Valley Gutter – Slight	V-4435
V-4280-2*	255	77	111	Vane	V-4280
5360M	256	68	104	Sloped	5360
V-4230-1	260	66	97	DNW	V-4230, V-4231
7030M2	260	71	106		5245, 7030, 7031, 7032, 7035, 7037
7030M6*	260	71	107	Vane	5245, 7030, 7031, 7032, 7035, 7037
5395M1	260	81	117		5395
5395M2	260	81	117	Depressed Cross Bars	5395
V-5660-80	260	83	119	ADA, DNW	V-5660
V-4430	265	78	108	Valley Gutter	V-4430
V-5622	266	71	95	DNW, Two grate unit available	5250, 5235, V-4875, V-5622
7075M2	266	72	96	Sinusoidal, Expressway use	7076
V-5724-1	268	72	96	DNW	V-5724
V-5622-5	269	71	95	Two grate unit available	5250, 5235, V-4875, V-5622
8208M	270	77	103		8208, 8308
V-4530	272	76	98	Valley Gutter – Sloped, DNW	V-4530-1, V-4530-2
7030M4*	272	71	107	Vane	5245, 7030, 7031, 7032, 7035, 7037
5345M1	276	78	104	Parallel Bar, Two grate unit available	5345, 5346
5055M2	280	71	106		5055
5385M	280	74	104		5385
5055M	283	71	106	M1	5055
V-4880	283	89	119	ADA, Two grate unit available	4595, V-4880, V-4882
V-5732-80	283	96	128	ADA	V-5632, V-5732
V-5630-80	283	96	128	ADA	V-5630
V-4410	290	88	132	Two grate unit, Valley Gutter	V-4410-2
V-5655	293	71	103		V-5655
8105M3	295	76	112	DNW	8105
V-5624	295	77	103		V-5624
5110M4	295	83	110	Medium duty, DNW	5110
5355M6	298	101	149	ADA, Non-slip, 1/2 grate	5355, 5356, 5357
5230M	300	72	96		5230
5115M2	300	81	108	DNW	5115
5110M3	300	83	110	Sinusoidal, DNW	5110
V-5664	300	83	115		V-5664
5190M2	300	89	148	Two grate unit, Sinusoidal	5191, 5192
V-4510-1	310	83	119	Valley Gutter, DNW	V-4510
V-5622-80	312	95	142	Two grate unit, ADA, DNW	5236L & 5236R
7030M3	315	71	107	Diagonal, Medium duty	5245
8105M1	320	76	112	Diagonal	8105

* 2-sided perimeter suggested for vane grate calculation

Note: All dimensions are in inches.

DRAINAGE TABLES – CATCH BASIN GRATES (CONTINUED)

Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
5345M2	320	78	104	Two grate unit available	5345, 5346
V-5726	321	77	103		V-5626, V-5726
V-5775	326	84	112		V-5775
8228M	328	83	114		8228, 8328
V-4855-1	332	72	110	High Capacity	V-4855
5450M	335	77	107		5450
5420M	335	90	120	Steel angle frame, DNW	5420
7590M1	338	91	139	DNW, Two grate unit available	7593
7567M	340	85	125	Vane, Two and three grate units available	7568
V-4215-2	346	73	109	Medium duty, Two grate unit available	V-4215
5110M2	350	83	110	DNW	5110
5344M	350	95	143	Two grate unit, Vane	5344
V-4880-4	350	89	119	Two grate unit available	4595, V-4880, V-4882
V-5736-80	356	115	153	ADA	V-5736
V-4280-1	361	77	111		V-4280
V-4280-3	363	77	111		V-4280
V-4215-1	365	73	109	Two grate unit available	V-4215
5416M3*	365	93	126	Vane, DNW, Two grate unit available	5416
8105M2	370	76	112	Parallel Bar	8105
V-5728	370	84	112		V-5728
7567M2	370	85	125	Concave, DNW, Two & three grate unit available	7568
5110M1	375	83	110	Non-Traffic, DNW	5110
7034M	380	83	119	Sloped, two grate unit available	7034
V-4067-1	383	83	119		V-4867-1
5115M1	390	81	108		5115, 5116
V-5662	390	83	115		V-5662
V-5660	390	83	119	DNW	V-5660
V-4230-2*	390	97	157	Two grate unit, Vane	V-4232L & V-4232R
V-5666	397	90	128		V-5666
5250M	400	95	142	Two grate unit, DNW	5236L & 5236R
V-5763	402	84	116		V-5763
V-5360	405	84	120	Concave	V-5360-1
7590M	415	91	139	DNW, Two grate unit available	7593
7595M	415	99	147		7595
5355M3	416	101	149	DNW, 1/2 grate	5355, 5356, 5357
V-5760	413	84	120		V-5760
8213M	426	95	127		8213, 8313
5425M2*	440	90	135	Two grate unit, Vane	5425
7600M*	440	97	158	Two grate unit, Vane, DNW	7600L & 7600R
V-4880-3	442	89	119	Two grate unit available	4595, V-4880, V-4882
V-4520-1	458	89	125	Valley Gutter	V-4520
V-5665	463	89	127		V-5665
5355M1	465	101	149	Diagonal	5355, 5356, 5357
7535M*	470	90	135	Two grate unit, Vane, barrier wall	7536
V-4880-1	473	89	119	DNW, two grate unit available	4595, V-4880, V-4882
V-5630	474	95	127	DNW	V-5630
V-4243-1	480	93	152	Two grate unit, DNW	V-4243L & V-4243R
5416M1	490	93	126	Sinusoidal, two grate unit available	5416

* 2-sided perimeter suggested for vane grate calculation

Note: All dimensions are in inches.



DRAINAGE TABLES — CATCH BASIN GRATES (CONTINUED)

Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
V-5732	490	96	128		V-5632, V-5732
V-4873	492	86	123		V-4873
5355M5*	514	101	149	Vane, 1/2 grate	5355, 5356, 5357
V-4230-1	520	97	157	Two grate unit, DNW	V-4232L & V-4232R
5380M*	500	90	135	Two grate unit, Vane	5375, 5376
8315M	500	112	150	Two grate unit	8315
5240M	510	96	132	DNW	5240
5416M2	520	92	125	Two grate unit available	5416
V-4410	585	110	176	Three grate unit, Valley Gutter	V-4410-3
V-5622	536	96	143	Two grate unit, DNW	5236L & 5236R
V-5622-5	538	96	143	Two grate unit,	5236L & 5236R
V-4880-6	540	89	119	Two grate unit available	4595, V-4880, V-4882
5355M4	540	101	149	Diagonal, 1/2 grate	5355, 5356, 5357
V-4530	544	98	151	Two grate unit, Sloped grate	V-4530-2
5345M1	552	104	156	Two grate unit, Parallel Bar	5350
V-5668	562	101	139		V-5668, V-5768
V-4880	566	119	179	Two grate unit, ADA	V-4881, V-4883
7585M	575	109	159	DNW	7585
V-4230-2*	585	127	217	Three grate unit, Vane	V-4232L & V-4232R & V-4233C
V-5667	598	101	151	1/2 frame & grate unit	V-5667, V-5767
V-4880-2	630	89	119	Non-Traffic, two grate unit available	4595, V-4880, V-4882
5345M2	640	104	156	Two grate unit	5350
8233M	640	114	164	Two grate unit	8233, 8333
V-5636	651	113	150	DNW	V-5636
V-5736	652	115	153		V-5736
7600M*	660	303	393	Three grate unit, Vane, DNW	7600L & 7600R & 7600C
7590M1	676	135	183	Two grate unit, DNW	7592
7567M*	680	125	204	Two grate unit, Vane	7568L & 7568R
V-4215-2	692	111	147	Two grate unit, Medium duty	V-4216L & V-4216R
V-4880-4	700	119	179	Two grate unit	V-4881, V-4883
V-5669	724	113	163		V-5669, V-5769
V-4215-1	730	111	147	Two grate Unit	V-4216L & V-4216R
5416M3*	730	126	192	Two grate unit, Vane, DNW	5417, 5418
7567M2	740	125	204	Two grate unit, Concave, DNW	7568L & 7568R
5355M2	750	101	149	Directional	5355, 5356, 5357
5400M	750	103	148	Two grate unit available	5400
7034M	760	119	190	Two grate unit, Sloped	7034L & 7034R
V-4230-2*	780	132	192	Four grate unit, Vane	(2) V-4232L & (2) V-4232R
V-4230-1	780	126	216	Three grate unit	V-4232L & V-4232R & V-4233C
7590M	830	135	183	Two grate unit, DNW	7592
V-5742	868	131	175	1/2 grate assy	V-5642, V-5742
V-4880-3	884	119	179	Two grate unit	V-4881, V-4883
V-5670	708	125	174	1/2 frame & grate unit	V-5670, V-5770
V-4880-1	946	119	179	Two grate unit, DNW	V-4881, V-4883
5390M	908	121	161	One piece frame with two piece grate	5390
5416M1	980	126	192	Two grate unit, Sinusoidal	5417, 5418
7567M*	1020	164	283	Three grate unit, Vane, Concave	7568L & 7568R & 7568C
V-4230-1	1040	132	192	Four grate unit	(2) V-4232L & (2) V-4232R

* 2-sided perimeter suggested for vane grate calculation

Note: All dimensions are in inches.

DRAINAGE TABLES — CATCH BASIN GRATES (CONTINUED)

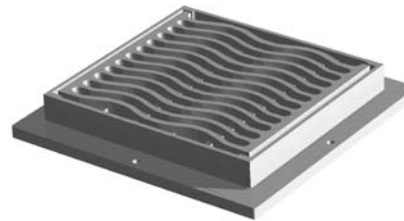
Grate Option	Sq. In. Opening	3-Sided Perimeter	4-Sided Perimeter	Grate Description	Frame Option
5416M2	1040	126	192	Two grate unit	5417, 5418
V-4880-6	1080	119	179	Two grate unit	V4880, V4881
7567M2	1110	164	283	Three grate unit, Concave, DNW	7568L & 7568R & 7568C
V-5648	1176	152	202	1/2 grate assy	V5758
V-4880-2	1260	119	179	Two grate unit, Non-traffic-Heavy duty	V4881, V4883
5400M	1500	148	238	Two grate unit	5405

* 2-sided perimeter suggested for vane grate calculation

Note: All dimensions are in inches.

SINUSOIDAL AND VANE GRATE FLOW CHARACTERISTICS

It is generally accepted that sinusoidal and vane grates are more efficient than standard bar grates when capturing water that is moving across them. Sinusoidal and vane grates have greater efficiency due to better directional flow characteristics. Sinusoidal and vane grates typically allow less water to bypass the grate. Please note that if a vane grate is installed improperly (i.e. backwards) the grate could have poor flow characteristics, while sinusoidal grates accept water equally in either direction. See page 28 for calculating flow capacities of inlet grates.



Illustrating 5416



Illustrating 7466M2



Illustrating V-5622