

COMMONLY USED MAIN DRAIN GRATES (REFER TO MANUFACTURER'S DATA FOR OTHER MODELS)

Florida Department of Health - Division of Disease Control & Health Protection

Bureau of Environmental Public Health - Water Programs - Code Compliant Drain Covers

Drain Covers also meets ASME/ANSI A112.19.8 (2017), and/or APSP-Standard 16.

Florida drain cover formula sq.in x 4.675 = max flow at 1.5ft/sec., unless approved at lower velocity

Gravity drain line maximum flow velocity 3ft/sec

AQUASTAR POOL PRODUCTS								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
6HPHAxxx	6" round	10.4 sq.in	160gpm @ 4.9ft/sec	49gpm	49gpm	5	NSF	Sumplless (max. 2" conn)
8MFxxx	8" round	16.6 sq.in	166gpm @ 3.2ft/sec	78gpm	77gpm	5	NSF	
CC8xxx	8" round	15.6 sq.in	144gpm @ 3.0ft/sec	72gpm	71gpm	5	NSF	2" Pipe
R8MFxxx	8" round	16.1 sq.in	146gpm @ 2.9ft/sec	75gpm	75gpm	5	NSF	
9MFXXX	9" x 9"	36.8 sq.in	258gpm @ 2.3 ft/sec	168gpm	172gpm	5	NSF	
R9MFXXX	9" x 9"	35.8 sq.in	258gpm @ 2.3 ft/sec	168gpm	172gpm	5	NSF	
CC10xxx	10" round	26.5 sq.in	156gpm @ 1.9 ft/sec	123gpm	123gpm	5	NSF	
A10RCFR	10" round	31.5 sq.in.	170gpm @ 1.7 ft/sec	150gpm	150gpm	5	NSF	
10MFxxx	10" round	31.3 sq.in	158gpm @ 1.6 ft/sec	146gpm	146gpm	5	NSF	
10AVRxxx	10" round	11.2 sq.in	166gpm @ 4.8 ft/sec	51gpm	51gpm	5	NSF	
914xxx	14" x 14"	84 sq.in	560gpm @ 2.1 ft/sec	392gpm	392gpm	5	NSF	
WAV9WRxxx	9" x 9"	48.4 sq.in	224gpm @ 1.5 ft/sec	224gpm	224gpm	5	NSF	
12MFxxx	12" x 12"	71.2 sq.in	274gpm @ 1.3 ft/sec	274gpm	274gpm	5	NSF	
R12MFxxx	12" x 12"	69.1 sq.in	274gpm @ 1.3 ft/sec	274gpm	274gpm	5	NSF	
WAV12WRxxx	12" x 12"	90.8 sq.in	361gpm @ 1.3 ft/sec	361gpm	361gpm	5	NSF	
1216xxx	16" x 16"	101 sq.in	460gpm @ 1.5 ft/sec	460gpm	445gpm	5	NSF	
18MFxxx	18" x 18"	147.1 sq.in	293gpm @ 0.6 ft/sec	293gpm	xx	5	NSF	at 0.6ft/sec. - Floor Only
R18MFNFxxx	18" x 18"	143.2 sq.in	293gpm @ 0.6 ft/sec	293gpm	xx	5	NSF	No Frame
P18xxx	18" x 18"	160.8 sq.in	740gpm @ 1.5 ft/sec	740gpm	740gpm	5	NSF	
WAV18WRxxx	18" x 18"	176.8 sq.in	628gpm @ 1.1 ft/sec	628gpm	628gpm	5	NSF	at 1.1ft/sec.
1824xxx	24" x 24"	253 sq.in	590gpm @ 1.5 ft/sec	590gpm	576gpm	5	NSF	Unblockable
R1824xxx	24" x 24"	253 sq.in	590gpm @ 1.5 ft/sec	590gpm	576gpm	5	NSF	
WAV24xxx	24" x 24"	340.8 sq.in	1444gpm @ 1.3 ft/sec	1444gpm	1444gpm	5	NSF	
24xxx	24" x 24"	352 sq.in	1531gpm @ 1.4 ft/sec	1531gpm	1531gpm	5	NSF	at 1.4ft/sec.

AQUASTAR POOL PRODUCTS (continued)								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
32CDFLxxx	32" x 4"	25.9 sq.in	316gpm @ 3.9 ft/sec	121gpm	120gpm	5	NSF	
32CDFLFRxxx	32" x 4"	25.9 sq.in	316gpm @ 3.9 ft/sec	121gpm	120gpm	5	NSF	No Sump
32CDPHxxx	32" x 4"	13.46 sq.in	268gpm @ 3.1 ft/sec	129gpm	129gpm	5	NSF	
32CDPHFRxxx	32" x 4"	27.9 sq.in	268gpm @ 3.1 ft/sec	129gpm	129gpm	5	NSF	
32CDAVxxx	32" x 4"	22.6 sq.in	236gpm @ 3.4 ft/sec	104gpm	104gpm	5	NSF	
32CDAVFRxxx	32" x 4"	22.6 sq.in	236gpm @ 3.4 ft/sec	104gpm	104gpm	5	NSF	No Sump
32CDLTxxx	32" x 4"	32.0 sq.in	192gpm @ 1.2 ft/sec	192gpm	192gpm	5	NSF	
32PDxxx	32" x 4"	13.46 sq.in	196gpm @ 2.3 ft/sec	127gpm	88gpm	5	NSF	
1836-10Sxxx	18" x 36"	358 sq.in	2,275gpm @ 2.0 ft/sec	1706gpm	1706gpm	5	NSF	With Sump
1836xxx	18" x 36"	358 sq.in	2,275gpm @ 2.0 ft/sec	1706gpm	1706gpm	5	NSF	Grate Only
R1836xxx	18" x 36"	358 sq.in	2,275gpm @ 2.0 ft/sec	1706gpm	1706gpm	5	NSF	Grate Only

BRADFORD PRODUCTS								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
SS32 w/sump 6X32SUMP1WB	32" x 6"	59.09 sq.in	242gpm	n/a	242gpm	25	UL	(1) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP2WB	32" x 6"	59.09 sq.in	277gpm	n/a	277gpm	25	UL	(2) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP3WB	32" x 6"	59.09 sq.in	244gpm	n/a	244gpm	25	UL	(3) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP1WS	32" x 6"	59.09 sq.in	260GPM	n/a	260gpm	25	UL	(1) side port - 2.5" minimum
SS32 w/sump 6X32SUMP2WS	32" x 6"	59.09 sq.in	346gpm	n/a	277gpm	25	UL	(2) side port - 2.5" minimum
SS32 w/sump 6X32SUMP3WS	32" x 6"	59.09 sq.in	199GPM	n/a	199gpm	25	UL	(3) side port - 2.5" minimum
SS32 w/sump 6X32SUMP1WE	32" x 6"	59.09 sq.in	168gpm	n/a	168gpm	25	UL	Wall - one port - end outlet
SS32 w/sump 6X32SUMP2WE	32" x 6"	59.09 sq.in	160gpm	n/a	160gpm	25	UL	Wall - two port - each end of sump

BRADFORD PRODUCTS (continued)								
Model Number	Size	Open Area	ASME Rated Flow	1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
SS32 w/sump 6X32SUMP2WE	32" x 6"	59.09 sq.in	160gpm	n/a	160gpm	25	UL	Wall - two port - each end of sump
SS32 w/sump 6X32SUMP1FB	32" x 6"	59.09 sq.in	164gpm	164gpm	n/a	25	UL	(1) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP2FB	32" x 6"	59.09 sq.in	216gpm	216gpm	n/a	25	UL	(2) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP3FB	32" x 6"	59.09 sq.in	230gpm	230gpm	n/a	25	UL	(3) bottom port - 2.5" minimum
SS32 w/sump 6X32SUMP1FS	32" x 6"	59.09 sq.in	277gpm	277gpm	n/a	25	UL	(1) side port - 2.5" minimum
SS32 w/sump 6X32SUMP2FS	32" x 6"	59.09 sq.in	347gpm	277gpm	n/a	25	UL	(2) side port - 2.5" minimum
SS32 w/sump 6X32SUMP3FS	32" x 6"	59.09 sq.in	228gpm	228gpm	n/a	25	UL	(3) side port - 2.5" minimum
SS32 w/sump 6X32SUMP1FE	32" x 6"	59.09 sq.in	168gpm	168gpm	n/a	25	UL	Wall - one port - end outlet
SS32 w/sump 6X32SUMP2FE	32" x 6"	59.09 sq.in	216gpm	216gpm	n/a	25	UL	Wall - two port - each end of sump

CUSTOM MOLDED PRODUCTS (CMP)								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
25506	32" Channel	38.79 sq.in	298gpm	181gpm	181gpm	7	IAPMO	
25531	8" diameter	13.2 sq.in	112gpm	62gpm	62gpm	7	IAPMO	(Galaxy)

DALDORADO								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
DalMAX-SG-242430	24" x 24"	357 Sq.in	1734gpm @ 1.56 ft/sec	1667gpm	1600gpm	25	IAPMO	Sump & Grate
DalMAX-SG-183625	18" x 36"	401 Sq.in	1984gpm @ 1.59 ft/sec	1871gpm	1440gpm	25	IAPMO	Sump & Grate
DalMAX-SG-183628	18" x 36"	401 Sq.in	2480gpm @ 1.98 ft/sec	1878gpm	1871gpm	25	IAPMO	Sump & Grate
DalMAX-SG-183634	18" x 36"	401 Sq.in	2869gpm @ 2.3 ft/sec	1871gpm	1871gpm	25	IAPMO	Sump & Grate

DALDORADO (continued)								
Model Number	Size	Open Area	ASME Rated Flow	1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
DalMAX-SG-185427	18" x 54"	602 Sq.in	2872gpm @ 1.53 ft/sec	2815gpm	2815gpm	25	IAPMO	Sump & Grate
DalMAX-SG-185429	18" x 54"	602 Sq.in	2944gpm @ 1.57 ft/sec	2812gpm	2812gpm	25	IAPMO	Sump & Grate
DalMAX-SG-185434	18" x 54"	602 Sq.in	4412gpm @ 2.35 ft/sec	2816gpm	n/a	25	IAPMO	Sump & Grate
DalMAX-SG-187234	18" x 72"	803 Sq.in	7715gpm @ 3.08 ft/sec	3757gpm	n/a	25	IAPMO	Sump & Grate
DalMAX-SG-187242	18" x 72"	803 Sq.in	7715gpm @ 3.08 ft/sec	3757gpm	n/a	25	IAPMO	Sump & Grate
DalMAX-SG-244834	24" x 48"	714 Sq.in	6456gpm @ 2.9 ft/sec	3338gpm	n/a	25	IAPMO	Sump & Grate
DalMAX-SG-244842	24" x 48"	714 Sq.in	6456gpm @ 2.9 ft/sec	3338gpm	n/a	25	IAPMO	Sump & Grate
DalMAX-FG-1836	18" x 36"	401 Sq.in	2869gpm	1875gpm	1875gpm	25	IAPMO	Grate Only
DalMAX-FG-1854	18" x 54"	602 Sq.in	2872gpm	2815gpm	2815gpm	25	IAPMO	Grate Only
DalMAX-FG-2424	24" x 24"	357 Sq.in	1734gpm	1669gpm	1600gpm	25	IAPMO	Grate Only

EVOQUA								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
3030AEC	30" x 30"	128.21	1432/1120gpm	600gpm	600gpm		NSF	

EUREKA								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
AV 20X20	20" x 20"	73.6 Sq.in	223gom	223gpm	223gpm	20	IAPMO	12" x 12" Formed Sump
AV 26X26	26" x 26"	108.9 Sq.in	495gpm	495gpm	495gpm	20	IAPMO	18" x 18" Formed Sump
AV 32X32	32" x 32"	144.3 Sq.in	675gpm	675gpm	675gpm	20	IAPMO	24" x 24" Formed Sump
AV 44X44	44" x 44"	209.1 Sq.in	975gpm	975gpm	975gpm	20	IAPMO	36" x 36" Formed Sump

HAYWARD INDUSTRIES								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
WG1031HF2	9" x 9"	23.96 sq.in	112gpm @ 1.5 ft/sec	112gpm	112gpm	7	IAPMO	

HAYWARD INDUSTRIES (continued)								
Model Number	Size	Open Area	ASME Rated Flow	1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
WGX1031BHF2	9" x 9"	23.96 sq.in	112gpm @ 1.5 ft/sec	112gpm	112gpm	7	IAPMO	
WG1032HF2	12" x 12"	41.07 sq.in	192gpm @ 1.5 ft/sec	192gpm	192gpm	7	IAPMO	
WGX1032BHF2	12" x 12"	41.07 sq.in	192gpm @ 1.5 ft/sec	192gpm	192gpm	7	IAPMO	
WG1033HF2	18" x 18"	124.1 sq.in	580gpm @ 1.5 ft/sec	580gpm	580gpm	7	IAPMO	
WGX1033BHF2	18" x 18"	124.1 sq.in	580gpm @ 1.5 ft/sec	580gpm	580gpm	7	IAPMO	

NEPTUNE BENSON - LAWSON AQUATICS (division of Evoqua)								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
MLD-SG-0909	9" X 9"	42.12 sq.in	261gpm	261gpm	248gpm	10	NSF	
MLD-SG-1212	12" X 12"	81.30 sq.in	365gpm	365gpm	340gpm	10	NSF	
MLD-SG-1818	18" X 18"	183.06 sq.in	816gpm	816gpm	712gpm	10	NSF	
MLD-FGD-0909	9" X 9"	42.12 sq.in	261gpm	261gpm	248gpm	10	NSF	
MLD-FGD-1212	12" X 12"	81.30 sq.in	365gpm	365gpm	340gpm	10	NSF	
MLD-FGD-1818	18" X 18"	183.06 sq.in	816gpm	816gpm	712gpm	10	NSF	
MLD-FGD-1212	12" X 12"	81.30 sq.in	340gpm	380gpm	380gpm	10	NSF	
MLD-FGD-1818	18" X 18"	183.06 sq.in	816gpm	816gpm	712gpm	10	NSF	
MLD-FG-1836	18" x 36"	343 sq.in	2080gpm	2080gpm	1496gpm	10	NSF	

PADDOCK POOL PRODUCTS								
Model Number	Size	Open Area	ASME Rated Flow	Florida Approved Flow at 1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
1818ESMD (w/2424FC)	18" X 18"	212.89 sq.in	995gpm	995gpm	995gpm	40	NSF	18" Sump with 24" Flat Grate
2424ESMD-FC	24" X 24"	212.89 sq.in	995gpm	995gpm	995gpm	40	NSF	24" Sump with Flat Grate
2448ESMD-FC	24" X 48"	425.78 sq.in	1990gpm	1990gpm	1990gpm	40	NSF	48" x 24" Sump with Flat Grate
2424PCDC	24" x 24"	186.6 sq.in	872gpm	872gpm	872gpm	40	NSF	Dome Grate
2424PCFC	24" X 24"	212.89 sq.in	995gpm	995gpm	995gpm	40	NSF	Flat Grate
2448PCFC	24" X 48"	425.78 sq.in	1990gpm	1990gpm	1990gpm	40	NSF	Flat Grate

PARAMOUNT POOL & SPA								
Model Number	Size	Open Area	ASME Rated Flow	1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
SDX2	10" (round)	20.25 sq.in	188gpm	100gpm	100gpm	10	IAPMO	Sumless Drain - Based on 2"

WATERWAY PLASTICS								
Model Number	Size	Open Area	ASME Rated Flow	1.5ft/sec		Life (yrs)	Testing Lab	Comments
				Floor	Wall			
640-180XV	8" Round	14.8 sq.in	120gpm	68gpm	68gpm	7	UL	
640-190XV	10" Round	30.9 sq.in	200gpm	143gpm	143gpm	7	UL	
640-213XV	10" Round	20.0 sq.in	178gpm	95gpm	95gpm	7	UL	
640-214XV	10" Round	20.4 sq.in	178gpm	95gpm	95gpm	7	UL	
640-231XV	8" Round	11.83 sq.in	100gpm	55gpm	55gpm	7	UL	
640-479XV	9" X 9"	43.6 sq.in	240gpm	203gpm	203gpm	7	UL	
640-472XV	12" x 12"	62.4 sq.in	356gpm	292gpm	292gpm	7	UL	
640-477XV	18" x 18"	174.4 sq.in	1168gpm	812gpm	n/a	7	UL	
640-476XV	24" x 24"	249.6 sq.in	2035gpm	1168gpm	n/a	7	UL	
640-136XV	32" Ultra-Strip	37.7 sq.in	320gpm	110gpm	110gpm	7	UL	
640-137XV	32" Ultra-Strip	37.7 sq.in	320gpm	110gpm	110gpm	7	UL	No Sump