

ALFA CHANNEL HYDRAULIC DATA

Part No.	Channel Only				Part No.	Channel Only			
	Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)		Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)
	Minimum	Maximum				Minimum	Maximum		
010	5.1 (12.9)	5.3 (13.5)	106.7 (403.8)	31.1 (14.1)	160	8.6 (21.9)	8.9 (22.5)	246.9 (934.4)	44.2 (20.0)
020	5.3 (13.5)	5.6 (14.1)	115.8 (438.3)	32.8 (14.9)	170	8.9 (22.5)	9.1 (23.1)	256.3 (970.4)	45.1 (20.5)
*021	5.6 (14.1)	5.6 (14.1)	—	32.0 (14.5)	180	9.1 (23.1)	9.3 (23.7)	265.8 (1006.3)	46.1 (20.9)
030	5.6 (14.1)	5.8 (14.7)	125.0 (473.1)	33.6 (15.2)	190	9.3 (23.7)	9.6 (24.3)	275.4 (1042.3)	46.8 (21.2)
040	5.8 (14.7)	6.0 (15.3)	134.2 (508.0)	34.3 (15.5)	*191	9.6 (24.3)	9.6 (24.3)	—	46.6 (21.1)
050	6.0 (15.3)	6.3 (15.9)	143.5 (543.0)	33.8 (15.3)	200	9.6 (24.3)	9.8 (24.9)	284.9 (1078.3)	46.9 (21.3)
060	6.3 (15.9)	6.5 (16.5)	152.7 (578.2)	35.2 (16.0)	210	9.8 (24.9)	10.0 (25.5)	294.4 (1114.4)	48.6 (22.0)
070	6.5 (16.5)	6.7 (17.1)	162.1 (613.5)	36.2 (16.4)	220	10.0 (25.5)	10.3 (26.1)	303.9 (1150.5)	49.8 (22.6)
080	6.7 (17.1)	7.0 (17.7)	171.4 (648.9)	37.0 (16.8)	230	10.3 (26.1)	10.5 (26.7)	313.5 (1186.6)	50.0 (22.7)
090	7.0 (17.7)	7.2 (18.3)	180.8 (684.3)	38.0 (17.2)	240	10.5 (26.7)	10.7 (27.3)	323.0 (1222.7)	51.5 (23.4)
*091	7.2 (18.3)	7.2 (18.3)	—	37.4 (17.0)	250	10.7 (27.3)	11.0 (27.9)	332.6 (1258.9)	50.5 (22.9)
*096	7.2 (18.3)	7.2 (18.3)	—	20.1 (9.1)	260	11.0 (27.9)	11.2 (28.5)	342.1 (1295.0)	52.4 (23.7)
100	7.2 (18.3)	7.4 (18.9)	190.2 (719.9)	37.6 (17.1)	270	11.2 (28.5)	11.5 (29.1)	351.7 (1331.2)	53.0 (24.0)
110	7.4 (18.9)	7.7 (19.5)	199.6 (755.5)	39.8 (18.1)	280	11.5 (29.1)	11.7 (29.7)	361.2 (1367.4)	54.5 (24.7)
120	7.7 (19.5)	7.9 (20.1)	209.0 (791.2)	40.6 (18.4)	290	11.7 (29.7)	11.9 (30.3)	370.8 (1403.6)	54.9 (24.9)
130	7.9 (20.1)	8.2 (20.7)	218.5 (826.9)	42.4 (19.2)	*291	11.9 (30.3)	11.9 (30.3)	—	53.4 (24.2)
140	8.2 (20.7)	8.4 (21.3)	227.9 (862.7)	42.8 (19.4)	300	11.9 (30.3)	12.2 (30.9)	380.4 (1439.9)	56.6 (25.3)
150	8.4 (21.3)	8.6 (21.9)	237.4 (898.6)	42.6 (19.3)					

Hydraulic data does not have a grate locking device in flow area.

Channel Specifications

Use this chart to estimate flow capacities and invert elevations. Add a minimum of 4" to overall depths to eliminate necessary excavation or as recommended by Structural Engineer. Actual depth of excavation is governed by slab or pavement thickness.

When using the Model 510 or 530 Series frame and grate systems, add 1.2 in. (3.1mm) to the overall depth.

Notes:

Subtract 1 in. (25mm) from minimum and maximum depths shown to obtain invert elevations.

* Part numbers indicate non-sloping channels.

MultiDrain Systems, Inc.
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ALFA CHANNEL HYDRAULIC DATA

Part No.	Channel With PolyWall I				Part No.	Channel With PolyWall I			
	Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)		Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)
	Minimum	Maximum				Minimum	Maximum		
010	12.2 (30.9)	12.4 (31.5)	389.9 (1476.1)	82.9 (37.6)	160	15.7 (39.9)	15.9 (40.5)	533.9 (2021.1)	96.0 (43.5)
020	12.4 (31.5)	12.6 (32.1)	399.5 (1512.4)	84.6 (38.4)	170	15.9 (40.5)	16.2 (41.1)	543.5 (2057.5)	96.9 (44.0)
*021	12.6 (32.1)	12.6 (32.1)	—	83.8 (38.0)	180	16.2 (41.1)	16.4 (41.7)	553.2 (2093.9)	97.9 (44.4)
030	12.6 (32.1)	12.9 (32.7)	409.1 (1548.7)	85.4 (38.7)	190	16.4 (41.7)	16.7 (42.3)	562.8 (2130.3)	96.6 (44.7)
040	12.9 (32.7)	13.1 (33.3)	418.7 (1584.9)	86.1 (39.0)	*191	16.7 (42.3)	16.7 (42.3)	—	98.4 (44.6)
050	13.1 (33.3)	13.3 (33.9)	428.3 (1621.1)	85.6 (38.8)	200	16.7 (42.3)	16.9 (42.0)	572.4 (2166.8)	96.7 (44.8)
060	13.3 (33.9)	13.6 (34.5)	437.9 (1657.6)	87.0 (39.5)	210	16.9 (42.9)	17.1 (43.5)	582.0 (2203.2)	100.4 (45.5)
070	13.6 (34.5)	13.8 (35.1)	447.5 (1693.9)	88.0 (39.9)	220	17.1 (43.5)	17.4 (44.1)	591.6 (2239.6)	101.6 (46.1)
080	13.8 (35.1)	14.0 (35.7)	457.1 (1730.2)	88.8 (40.3)	230	17.4 (44.1)	17.6 (44.7)	601.3 (2276.0)	101.8 (46.2)
090	14.0 (35.7)	14.3 (36.3)	466.7 (1766.5)	89.8 (40.7)	240	17.6 (44.7)	17.8 (45.3)	610.9 (2312.5)	103.46 (46.9)
*091	14.3 (36.3)	14.3 (36.3)	—	89.2 (40.5)	250	17.8 (45.3)	18.1 (45.9)	620.5 (2348.9)	102.3 (46.4)
*096	14.3 (36.3)	14.3 (36.3)	—	71.9 (32.6)	260	18.1 (45.9)	18.3 (46.5)	630.1 (2385.3)	104.2 (47.2)
100	14.3 (36.3)	14.5 (36.9)	476.3 (1802.9)	89.4 (40.6)	270	18.3 (46.5)	18.5 (47.1)	639.8 (2421.8)	104.8 (47.5)
110	14.5 (36.9)	14.8 (37.5)	485.9 (1839.2)	91.6 (41.5)	280	18.5 (47.1)	18.8 (47.7)	649.4 (2458.2)	106.3 (48.2)
120	14.8 (37.5)	15.0 (38.1)	495.5 (1875.6)	92.4 (41.9)	290	18.8 (47.7)	19.0 (48.3)	659.0 (2494.7)	106.7 (48.4)
130	15.0 (38.1)	15.2 (38.7)	505.1 (1912.0)	94.2 (42.7)	*291	19.0 (48.3)	19.0 (48.3)	—	105.2 (47.7)
140	15.2 (38.7)	15.5 (39.3)	514.7 (1948.4)	94.6 (42.9)	300	19.0 (48.9)	19.3 (48.9)	668.7 (2531.2)	107.4 (48.7)
150	15.5 (39.3)	15.7 (39.9)	524.3 (1984.7)	94.4 (42.8)					

Hydraulic data does not have a grate locking device in flow area.

Channel Specifications

Use this chart to estimate flow capacities and invert elevations. Add a minimum of 4" to overall depths to eliminate necessary excavation or as recommended by Structural Engineer. Actual depth of excavation is governed by slab or pavement thickness.

When using the Model 510 or 530 Series frame and grate systems, add 1.2 in. (3.1mm) to the overall depth.

Notes:

Subtract 1 in. (25mm) from minimum and maximum depths shown to obtain invert elevations.

* Part numbers indicate non-sloping channels.

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ALFA CHANNEL HYDRAULIC DATA

Part No.	Channel With PolyWall II				Part No.	Channel With PolyWall II			
	Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)		Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (lpm)	Weight lbs (kg)
	Minimum	Maximum				Minimum	Maximum		
010	19.3 (48.9)	19.5 (49.5)	678.3 (2567.6)	106.5 (46.3)	160	22.8 (57.9)	23.0 (58.5)	822.9 (3114.9)	119.6 (52.3)
020	19.5 (49.5)	19.7 (50.1)	687.9 (2604.1)	108.2 (47.1)	170	23.0 (58.5)	23.3 (59.1)	832.5 (3151.4)	120.5 (52.7)
*021	19.7 (50.1)	19.7 (50.1)	—	107.4 (46.7)	180	23.3 (59.1)	23.5 (59.7)	842.1 (3187.9)	121.5 (53.1)
030	19.7 (50.1)	20.0 (50.7)	697.6 (2640.5)	109.0 (47.4)	190	23.5 (59.7)	23.7 (60.3)	851.8 (3224.4)	122.2 (53.4)
040	20.0 (50.7)	20.2 (51.3)	707.2 (2677.0)	109.7 (47.7)	*191	23.7 (60.3)	23.7 (60.3)	—	122.0 (53.3)
050	20.2 (51.3)	20.4 (51.9)	716.8 (2713.5)	109.2 (47.5)	200	23.7 (60.3)	24.0 (60.9)	861.4 (3260.9)	122.3 (53.5)
060	20.4 (51.9)	20.7 (52.5)	726.5 (2750.0)	110.6 (48.2)	210	24.0 (60.9)	24.2 (61.5)	871.1 (3297.4)	124.0 (54.2)
070	20.7 (52.5)	20.0 (53.1)	736.1 (2786.4)	111.6 (48.6)	220	24.2 (61.5)	24.4 (62.1)	880.7 (3333.9)	125.2 (54.8)
080	20.9 (53.1)	21.1 (53.7)	745.7 (2822.9)	112.4 (49.0)	230	24.4 (62.2)	24.7 (62.7)	890.4 (3370.4)	125.4 (54.9)
090	21.1 (53.7)	21.4 (54.3)	755.4 (2859.4)	113.4 (39.4)	240	24.7 (62.7)	24.9 (63.3)	900.0 (3406.9)	126.9 (55.6)
*091	21.4 (54.3)	21.4 (54.3)	—	112.8 (49.2)	250	24.9 (63.3)	25.2 (63.9)	909.7 (3443.4)	125.9 (55.1)
*096	21.4 (54.3)	21.4 (54.3)	—	95.5 (41.3)	260	25.2 (63.9)	25.4 (64.5)	919.3 (3480.0)	127.8 (55.9)
100	21.4 (54.3)	21.6 (54.9)	765.0 (2895.9)	113.0 (49.3)	270	25.4 (64.5)	25.6 (65.1)	929.0 (3516.5)	128.4 (56.2)
110	21.6 (54.9)	21.9 (55.5)	774.7 (2932.4)	115.2 (50.3)	280	25.6 (65.1)	25.9 (65.7)	938.6 (3553.0)	129.9 (56.9)
120	21.9 (55.5)	22.1 (56.1)	784.3 (2968.9)	116.0 (50.6)	290	25.9 (65.7)	26.1 (66.3)	948.2 (3589.5)	130.3 (57.1)
130	22.1 (56.1)	22.3 (56.7)	793.9 (3005.4)	117.8 (51.4)	*291	26.1 (66.3)	26.1 (66.3)	—	128.8 (56.4)
140	22.3 (56.7)	22.6 (57.3)	803.6 (3041.9)	118.2 (51.6)	300	26.1 (66.3)	26.3 (66.9)	957.9 (3626.0)	131.0 (57.4)
150	22.6 (57.3)	22.8 (57.9)	813.2 (3078.4)	118.0 (51.5)					

Hydraulic data does not have a grate locking device in flow area.

Channel Specifications

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Notes:

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