

	ALTHON 150					ALTHON 250					ALTHON 375				
Rainfall rate		25mm/hr	50mm/hr	75mm/hr	100mm/hr		25mm/hr	50mm/hr	75mm/hr	100mm/hr		25mm/hr	50mm/hr	75mm/hr	100mm/hr
	Flow rate l/s	Area drained m ²	Area drained m ²	Area drained m ²	Area drained m ²	Flow rate l/s	Area drained m ²	Area drained m ²	Area drained m ²	Area drained m ²	Flow rate l/s	Area drained m ²	Area drained m ²	Area drained m ²	Area drained m ²
Channel gradient															
Flat/0%	25	3350	1750	1150	850	40	5200	2600	1700	1250	100	14000	7500	5000	3400
1:500/0.20%	28	4032	2016	1344	1008	60	8640	4320	2880	2160	180	25920	12960	8640	6480
1:400/0.25%	30	4320	2160	1440	1080	71	10224	5112	3408	2556	195	28080	14040	9360	7020
1:300/0.33%	33	4752	2376	1584	1188	75	10800	5400	3600	2700	220	31680	15840	10560	7920
1:200/0.50%	40	5760	2880	1920	1440	95	13680	6840	4560	3420	250	36000	18000	12000	9000
1:100/0.10%	60	8640	4320	2880	2160	140	20160	10080	6720	5040	380	54720	27360	18240	13680
1:50/2%	86	12384	6192	4128	3096	190	27360	13680	9120	6840	520	74880	37440	24960	18720
1:20/5%	140	20160	10080	6720	5040	300	43200	21600	14400	10800	850	122400	61200	40800	30600

	ALTHON 525					ALTHON 600				
Rainfall rate		25mm/hr	50mm/hr	75mm/hr	100mm/hr		25mm/hr	50mm/hr	75mm/hr	100mm/hr
	Flow rate l/s	Area drained Ha	Area drained Ha	Area drained Ha	Area drained Ha	Flow rate l/s	Area drained Ha	Area drained Ha	Area drained Ha	Area drained Ha
Channel gradient										
Flat/0%	190	2.40	1.40	0.90	0.70	290	3.50	2.20	1.40	1.05
1:500/0.20%	360	5.18	2.59	1.73	1.30	460	6.62	3.31	2.21	1.66
1:400/0.25%	400	5.76	2.88	1.92	1.44	570	8.21	4.10	2.74	2.05
1:300/0.33%	450	6.48	3.24	2.16	1.62	610	8.78	4.39	2.93	2.20
1:200/0.50%	550	7.92	3.96	2.64	1.98	750	10.80	5.40	3.60	2.70
1:100/0.10%	800	11.52	5.76	3.84	2.88	1200	17.28	8.64	5.76	4.32
1:50/2%	1200	17.28	8.64	5.76	4.32	1600	23.04	11.52	7.68	5.76
1:20/5%	1750	25.20	12.60	8.40	6.30	2500	36.00	18.00	12.00	9.00

Storage capacity of channel to underside of lid for attenuation	
Channel size	Capacity l/m
150	51
250	87
375	184
525	325
600	412

Flow rates are for channels running full to underside of lid. Based on Colebrook-White formula adopting a channel roughness of $K_s=1.0\text{mm}$ (equivalent to Manning's $n=0.012$). Shaded areas indicate velocities of 3m/s or greater.