

Draincore2 Lateral Hydraulic Flow

Colorado State University - Hydraulics Lab Test Summary

Report Date 2 July 1997

Tests Performed According to ASTM Test D 4716-87

Flume Data: 2 feet wide, 2.5' deep, and 64' long; 20 hp pump flow capacity of 2 cfs; slope of 0-3%.

English Units				
% Slope	# Layers	Head - ft	Q-cfs	Q-gpm/ft
1	1	0.08	0.02	7
1	1	1.05	0.09	42
1	2	1.10	0.18	80
1	4	1.08	0.33	148
1	6	1.09	0.45	203
1	8	1.03	0.59	266
1	10	1.06	0.65	291

10	1	0.95	0.11	47
10	2	0.92	0.20	88
10	4	1.04	0.39	177
10	6	1.04	0.54	241
10	8	1.01	0.65	294
10	10	1.01	0.72	321

100	1	0.71	0.18	80
100	2	0.71	0.33	149
100	4	0.73	0.62	279
100	6	0.83	0.95	427

Metric Units				
% Slope	# Layers	Head - cm	Q-liters/s	Q-lpm/m
1	1	2.5	0.45	8
1	1	32.0	2.63	48
1	2	33.4	5.07	93
1	4	32.8	9.35	171
1	6	33.1	12.83	235
1	8	31.3	16.82	307
1	10	32.2	18.35	335

10	1	28.8	2.97	54
10	2	27.9	5.55	101
10	4	31.8	11.16	204
10	6	31.8	15.24	279
10	8	30.7	18.52	339
10	10	30.8	20.25	370

100	1	21.8	5.04	92
100	2	21.5	9.40	172
100	4	22.1	17.59	322
100	6	25.4	26.96	493

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