

PREMIER PLASTICS FLOUT® (3/16" 2" 10.5' DROP) TEST SUMMARY

GROUP 5

Orifice Size 3/16", 1" laterals, 3" diam. Transport Pipe
10'6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre-Flooded	Open Lateral Ends
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314	3.314	4.713
DURATION OF DISCHARGE MIN/SEC.	6:40	4:50	4:25	3:20	3:05	2:50		
AVG. RATE OF DISCHARGE USGPM	22.0	33	35	50	56	60		
USGPM PER ORIFICE	1.10	0.813	0.58	0.619	0.06	0.500		
RESIDUAL HEAD AT FIELD INS.	131	65	28	32.5	24	17.5		
SQUIRT HEIGHT INS.	92	48	20	23	18	14		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.70	0.74	0.71	0.71	0.75	0.80		
NOTES	fully flooded 55 secs	stable 40% channel flow. flooded at base	stable 60% channel flow. flooded at base	turbulence channel flow to base. water slugs	turbulence channel flow to base. water slugs	turbulence channel flow to base. water slugs		

PREMIER PLASTICS FLOUT® (3/16" 3" 10.5' DROP-V) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3" diam. Vented Transport Pipe
10' 6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre-Flooded	120 VENTED
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314	3.314	4.713
DURATION OF DISCHARGE MIN/SEC.		4:10	3:10	2:45	2:35	2:30		
AVG. RATE OF DISCHARGE USGPM		41.0	54	65	68	74		
USGPM PER ORIFICE		1.025	0.892	0.813	0.680	0.617		
RESIDUAL HEAD AT FIELD INS.		100	70	55.5	40	30.5		
SQUIRT HEIGHT INS.		72	48	43	30	25		
SQUIRT HEIGHT ÷ RESIDUAL HEAD		0.72	0.69	0.8	0.8	0.82		
NOTES			turbulence lower section of pipe	turbulence air expelled thru orifices	turbulence air expelled thru orifices	turbulence air expelled thru orifices		

PREMIER PLASTICS FLOUT® (3/16" 3" 10.5' DROP-P) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 3" diam. PREFLOODED Transport Pipe
10'6" drop, 20 Deg. Slope

3" Flout 144 US Gal Dose

Tank Model FLT175

NO. OF ORIFICES	20	40	60	80	100	120	120 Pre-Flooded	Open Lateral Ends
TOTAL ORIFICE AREA SQ. IN.	0.552	1.105	1.657	2.209	2.762	3.314	3.314	4.713
DURATION OF DISCHARGE MIN/SEC.	7:05	3:45	2:55	2:35	2:30	2:20		
AVG. RATE OF DISCHARGE USGPM	25.0	46	61	71	79	83		
USGPM PER ORIFICE	1.25	1.150	1.02	0.890	0.79	0.690		
RESIDUAL HEAD AT FIELD INS.	131	106	80	61	44	32		
SQUIRT HEIGHT INS.	84	76	56	45	34	26		
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.64	0.72	0.70	0.74	0.77	0.81		
NOTES				Draws air in near end of cycle	Draws air in near end of cycle	Draws air in near end of cycle		