

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

GROUP 4

Orifice Size 3/16", 1" laterals, 2" 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.	7:10	4:10	3:00	2:55	2:45	2:35		
AVG. RATE OF DISCHARGE USGPM	22.0	42.0	51.5	60.0	65.0	69.0	75.0	
USGPM PER ORIFICE	1.10	1.05	0.858	0.75	0.65	0.575	0.625	
RESIDUAL HEAD AT FIELD INS.	117	97	73.5	51.5	35	25	28	
SQUIRT HEIGHT INS.	82	69	52	38	26	21	25	
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.70	0.71	0.71	0.74	0.74	0.84	0.89	
NOTES							No Graph	

PREMIER PLASTICS FLOUT®(3/16" 4/2" 10.5' DROP) TEST SUMMARY

Orifice Size 3/16", 1" laterals, 4/2" diam. Vented Transport Pipe (2"Pipe-50" VerticalDrop)
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.	6:50	4:45	3:50	3:15	3:05	2:50	2:35	
AVG. RATE OF DISCHARGE USGPM	23.0	38.0	44	52	58	60	70.5	
USGPM PER ORIFICE	1.15	0.950	0.730	0.650	0.575	0.500	0.588	
RESIDUAL HEAD AT FIELD INS.	128	75	44	32	23	20.0	31	
SQUIRT HEIGHT INS.	92	57	33	23.5	19	16	24	
SQUIRT HEIGHT ÷ RESIDUAL HEAD	0.72	0.76	0.75	0.7	0.8	0.80	0.77	
NOTES	fully flooded 45 secs	stable channel flow bubble in 4" pipe	stable channel flow bubble in 4" pipe	stable channel flow bubble in 4" pipe	stable channel flow bubble in 4" pipe	stable channel flow bubble in 4" pipe	stable no bubble	

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

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	turbulance channel flow to base. water slugs	turbulance channel flow to base. water slugs	turbulance channel flow to base. water slugs		