

PREMIER PLASTICS FLOUT® (1/8" 3" 10.5' DROP) TEST SUMMARY

GROUP 2

Orifice Size 1/8", 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. | 0.245 | 0.491 | 0.736 | 0.982 | 1.227 | 1.473 | 1.473 | 4.713 |
| DURATION OF DISCHARGE MIN/SEC. | | 7:20 | 5:20 | 4:45 | 4:20 | 4:08 | 2:30 Est. | |
| AVG. RATE OF DISCHARGE USGPM | | 25.5 | 34.5 | 38.0 | 37.5 | 38.0 | 61.0 | |
| USGPM PER ORIFICE | | 0.64 | 0.575 | 0.47 | 0.375 | 0.317 | 0.508 | |
| RESIDUAL HEAD AT FIELD INS. | | 136 | 117 | 73 | 48 | 34 | 89 | |
| SQUIRT HEIGHT INS. | | 98 est. | 84 est. | 53 est. | 35 est. | 25 est. | 64 | |
| SQUIRT HEIGHT ÷ RESIDUAL HEAD | | 0.72 est. | 0.72 est. | 0.72 est. | 0.72 est. | 0.72 est. | 0.72 | |
| NOTES | | fully floods 40secs | fully floods 1:40 | channel flow at top slowly reduces | High turb. Channel flow | High turb. Channel flow | no turb. no channel flow | |

PREMIER PLASTICS FLOUT® (1/8" 3/2" 10.5' DROP) TEST SUMMARY

Orifice Size 1/8", 1" laterals, 3/2" diam. Transport Pipe(2"Pipe-50" V.Drop)
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. | 0.245 | 0.491 | 0.736 | 0.982 | 1.227 | 1.473 | 1.473 | 4.713 |
| DURATION OF DISCHARGE MIN/SEC. | | 6:50 | 5:15 | 4:10 | 3:30 | 3:05 | | |
| AVG. RATE OF DISCHARGE USGPM | | 24.5 | 36 | 40 | 46 | 54 | | |
| USGPM PER ORIFICE | | 0.610 | 0.600 | 0.500 | 0.460 | 0.450 | | |
| RESIDUAL HEAD AT FIELD INS. | | 124 | 83 | 78 | 64.5 | 64.0 | | |
| SQUIRT HEIGHT INS. | | 93 | 66 est. | 66 | 56 | 52 | | |
| SQUIRT HEIGHT ÷ RESIDUAL HEAD | | 0.75 | 0.8 est. | 0.9 | 0.9 | 0.81 | | |
| NOTES | | fully flooded | fully flooded at 2:00 | | | flow backs up slowly in pipe | | |

PREMIER PLASTICS FLOUT® (1/8" 4"/2" 10.5' DROP - P) TEST SUMMARY

Orifice Size 1/8", 1" laterals, 4/2" diam. Transport Pipe(2"Pipe-50" V.Drop)
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. | 0.245 | 0.491 | 0.736 | 0.982 | 1.227 | 1.473 | | |
| DURATION OF DISCHARGE MIN/SEC. | | 7:10 | 4:50 | 4:45 | 4:05 | 3:45 | | |
| AVG. RATE OF DISCHARGE USGPM | | 23 | 34 | 36 | 40 | 46 | | |
| USGPM PER ORIFICE | | 0.575 | 0.57 | 0.450 | 0.40 | 0.379 | | |
| RESIDUAL HEAD AT FIELD INS. | | 127 | 104 | 64.5 | 48 | 41 | | |
| SQUIRT HEIGHT INS. | | 102 est. | 83 est. | 53 | 40 est. | 36 | | |
| SQUIRT HEIGHT ÷ RESIDUAL HEAD | | 0.8 est. | 0.8 est. | 0.82 | 0.84 est. | 0.88 | | |
| NOTES | | | | | stable bubble channel flow in 4" pipe | Stable bubble | | |