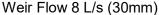


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Flow Characteristic Curve - TIA100F2 120 100 Water Head Level (mm) 80 60 TRANSITION FLOW REGION 40 Please note that the water depth levels in this shaded area of the chart were observed to fluctuate continuously between maximum and minimum levels due to the transition 20 between weir and orifice flow conditions occurring at the outlet. Only the maximum observed water levels are plotted on this chart. 10 12 Flow Rate (L/s)







Surcharged flow 12 L/s (90mm)

Observation Comments:

- Flow rates from 0-8.0 L/s (30mm Head) produced a linear characteristic curve with the exception of open outlet which increased water head level rapidly at 6.0 L/s.
- At 10.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 20mm.
- At 12.0 14.0 L/s the flow surcharged with the water head fluctuating 40mm.
- The maximum flow limit to maintain weir flow conditions is 8.0 L/s.

I hereby certify that the test results presented on this outlet performance certificate are true and correct and were obtained using recognised AHSCA Gutter Outlet Testing procedures.

Dr Terry Lucke,

Chief Researcher:

Mark Alexander,

AHSCA Foundation Chairman:

Milyw.

Date: 16th November 2016

Date: 16th November 2016