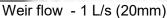


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Flow Characteristic Curve – Q130SR4 100 90 80 70 Water Head Level (mm) 60 50 40 30 TRANSITION FLOW REGION Please note that the water depth levels in this shaded area 20 of the chart were observed to fluctuate continuously between maximum and minimum levels due to the transition between veir and orifice flow conditions occurring at the 10 outlet. Only the maximum observed water levels are plotted on this chart. 0 2 3 Flow Rate (L/s)







Surcharged flow - 3 L/s (65mm)

Observation Comments:

- Flow rates from 0-2.5 L/s (55mm Head) produced a linear characteristic curve. At 3.0 3.5 L/s the weir flow transitioned to vortex flow, then surcharged with the head level stabilising at 55mm.
- From 3.5 5 L/s the flow conditions cycled between vortex and surcharged flow characterised by the water level fluctuating 20mm.
- The maximum flow limit to maintain weir flow conditions is 2.5 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:

Date: 16th November 2016 Date: 16th November 2016