

OUTLET PERFORMANCE CERTIFICATE ID: SPS023 - TIA100F

Test Results	ID: SPS023
Description	SPS Truflo RWO
Drain Type	Class C Heavy Duty Flat Grate
Model	TIA100F
Outlet Size	100 NB
Test Date	15/09/2016
Grate Drawing	Flat grate in heavy duty, hot-dipped galvanised mid-carbon steel Load-tested to class C of AS3996-2006 SPS Catalogue Ref: 1.02
Housing Drawing	Integral puddle flange with weep holes 4 x places B Structural slab Optional tailpiece connector (suffix "T") Optional coupling connector (suffix "P")
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure. Threaded tail piece connector.



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Flow Characteristic Curve - TIA100F 180 TRANSITION FLOW REGION Please note that the water depth levels in this 160 shaded area of the chart were observed to fluctuate continuously between maximum and minimum levels due to the transition between weir and orifice flow conditions occurring 140 at the outlet. Only the maximum observed water levels are plotted on this chart. Nater Head Level (mm) 120 100 80 40 20 0 6 8 10 11 12



Flow Rate (L/s)

Weir Flow - 7 L/s (30mm)

Observation Comments:

- Flow rates from 0-7.0 L/s (30mm Head) produced a linear characteristic curve with stable water head levels.
- At 8.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 10mm.
- At 10.0 14.0 L/s the flow surcharged with the water head fluctuating 30mm.
- The maximum flow limit to maintain weir flow conditions is 7.0 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,

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Mark Alexander,

AHSCA Foundation Chairman:

Date: 16th November 2016

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