

## OUTLET PERFORMANCE CERTIFICATE ID: SPS025 - TIA150D2

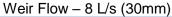
Test Results ID: SPS025	
Description	SPS Truflo RWO
Drain Type	Dome Grate and Membrane Clamp
Model	TIA150D2
Outlet Size	150NB
Test Date	22/09/2016
Grate and Housing Drawing	Membrane ring fastens to body independently of grate to allow access to sump without breaking membrane seal.  Optional 100mm high 304 SS gravel guard for built-up roofs code "GG105"  Integral puddle flange with weep holes 4 x places  Optional talipiece connector (suffix "F")  SPS Catalogue Ref: 1.04
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure.  Threaded tail piece connector.



## Association of Hydraulic Services Consultants Australia – Research Foundation

## Flow Characteristic Curve - TIA150D2 70 60 50 Nater Head Level (mm) 40 30 TRANSITION FLOW REGION 20 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 between weir 10 and orifice flow conditions occurring at the outlet. Only the maximum observed water levels are plotted on this chart. 0 4 10 12 14 Flow Rate (L/s)







Surcharged Flow - 12 L/s (40mm)

## **Observation Comments:**

- Flow rates from 0-8.0 L/s (30mm Head) produced a linear characteristic curve with stable water head levels.
- At 10.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow.
- At 10.0 14.0 L/s the flow surcharged characterised by the water level fluctuating 10 20mm.
- 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:

MMMMur.

Date: 16th November 2016

Date: 16<sup>th</sup> November 2016