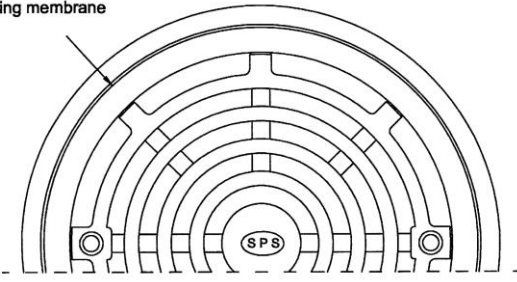
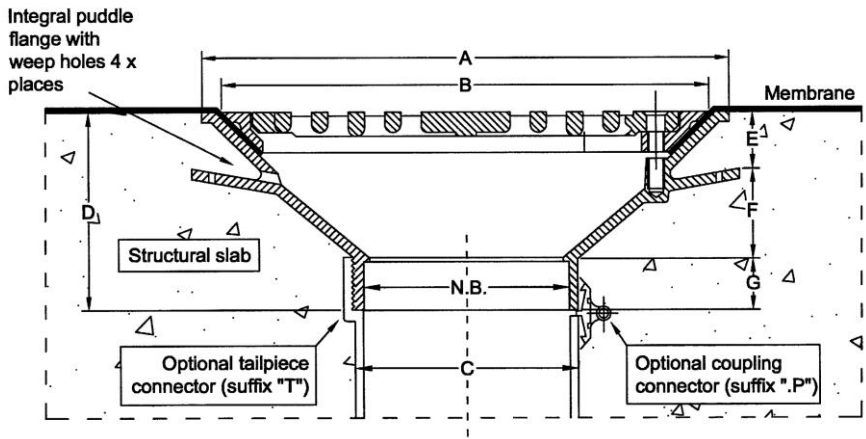
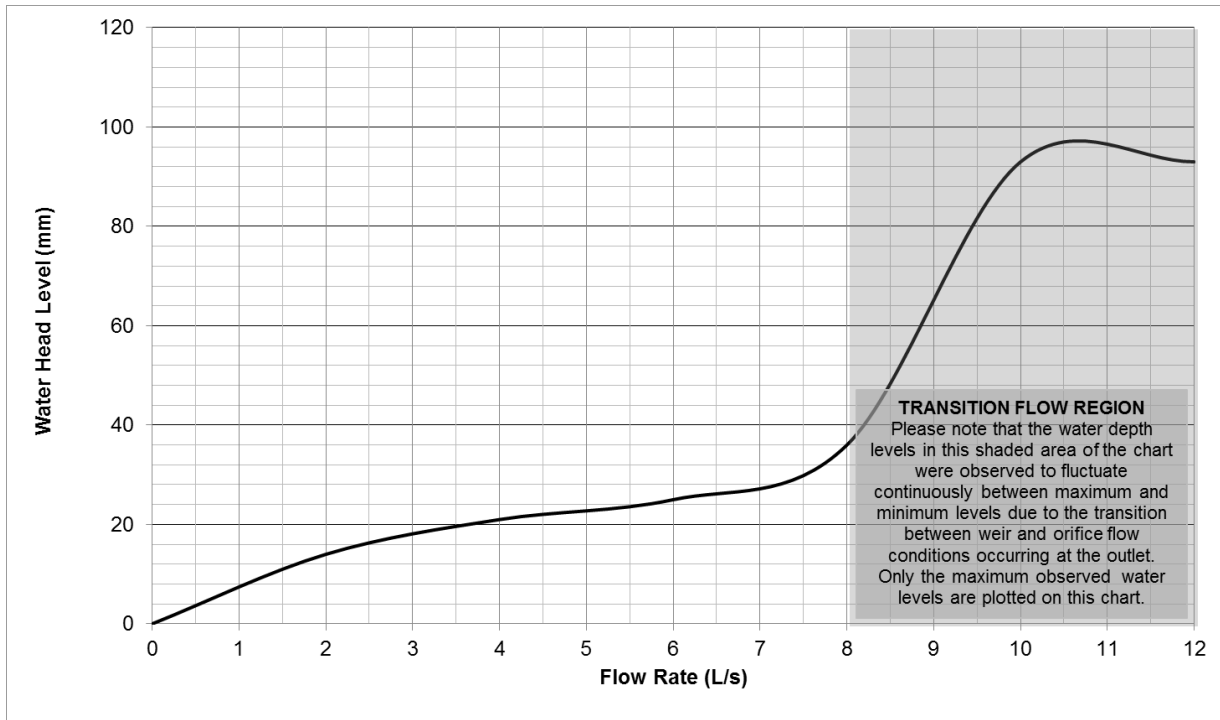


**OUTLET PERFORMANCE CERTIFICATE ID: SPS021 – TIA100F2**

Test Results		ID: SPS021
<b>Description</b>	SPS Truflo RWO	
<b>Drain Type</b>	Flat Grate and Membrane Clamp	
<b>Model</b>	TIA100F2	
<b>Outlet Size</b>	100NB	
<b>Test Date</b>	13/09/2016	
<b>Grate Drawing</b>	<p>Membrane ring fastens to body independently of grate to allow access to sump without breaking membrane seal.</p>  <p>SPS Catalogue Ref: 1.03</p>	
<b>Housing Drawing</b>		
<b>Drain Pipe Configuration</b>	Standard pipe configuration as shown in AHSCA test procedure. Threaded tail piece connector.	

### Flow Characteristic Curve – TIA100F2



Weir Flow 8 L/s (30mm)



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:



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

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