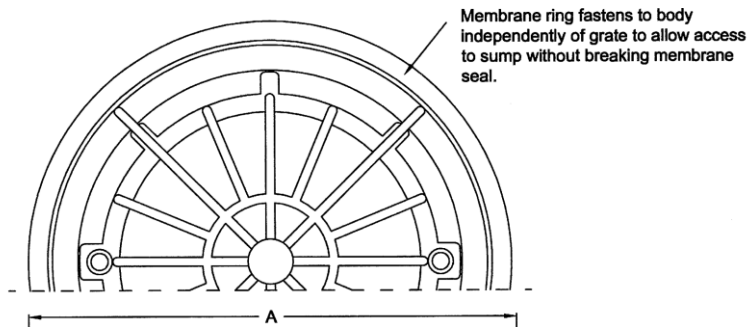
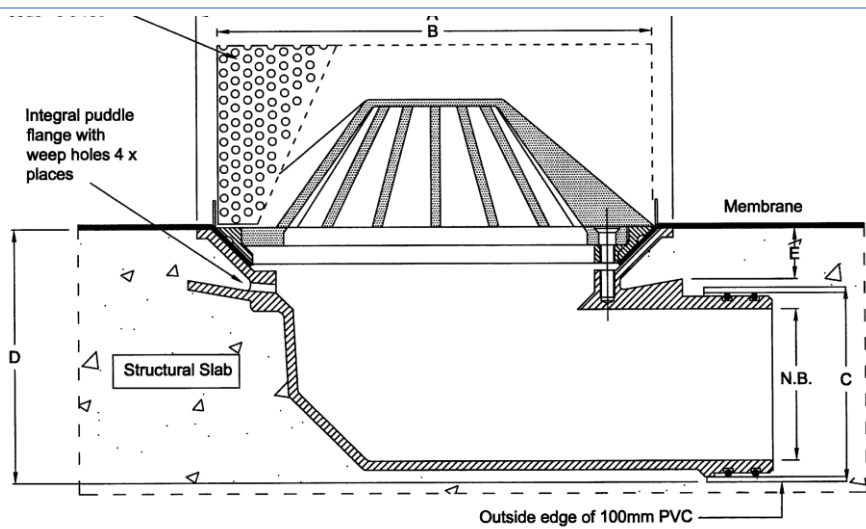
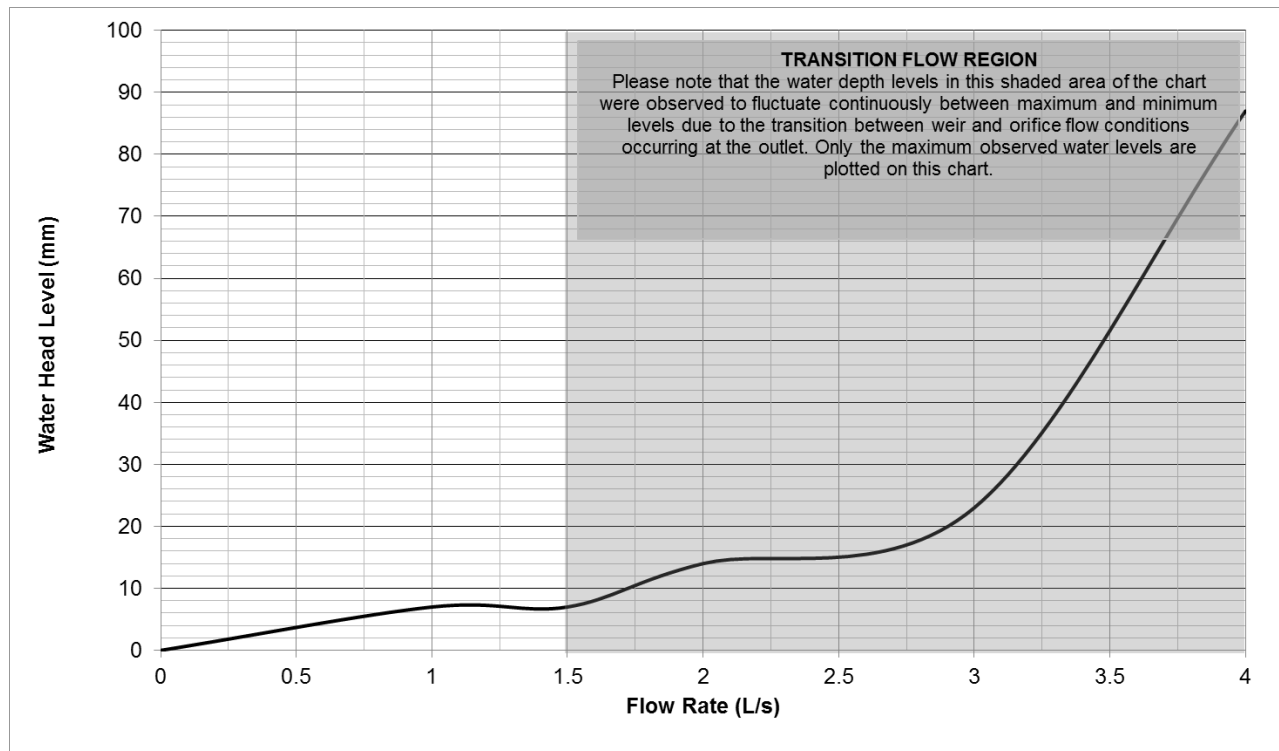


**OUTLET PERFORMANCE CERTIFICATE ID: SPS028 - TIA80/90D2**

Test Results		ID: SPS028
<b>Description</b>	SPS Truflo 90° RWO	
<b>Drain Type</b>	Dome Grate and Membrane Clamp	
<b>Model</b>	TIA80/90D2	
<b>Outlet Size</b>	80NB	
<b>Test Date</b>	28/09/2016	
<b>Grate Drawing</b>	 <p style="text-align: center;">SPS Catalogue Ref: 1.08</p>	
<b>Housing Drawing</b>		
<b>Drain Pipe Configuration</b>	<p>O-ring connection was not possible due to 90 Degree housing outlet close proximity to tank frame. An alternative configuration of open outlet and flexible lay flat hose was utilised.</p>	

### Flow Characteristic Curve – TIA80/90D2



Weir Flow – 1.5 L/s (7mm)



Surcharged Flow 3 L/s (20mm)

#### Observation Comments:

- Flow rates from 0-1.5 L/s (7mm Head) produced a flat characteristic curve with stable water head levels.
- At 2.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow.
- At 3.0 – 4.0 L/s the flow surcharged with the water head rising rapidly to 90mm.
- The maximum flow limit to maintain weir flow conditions is 1.5 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: 16<sup>th</sup> November 2016

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