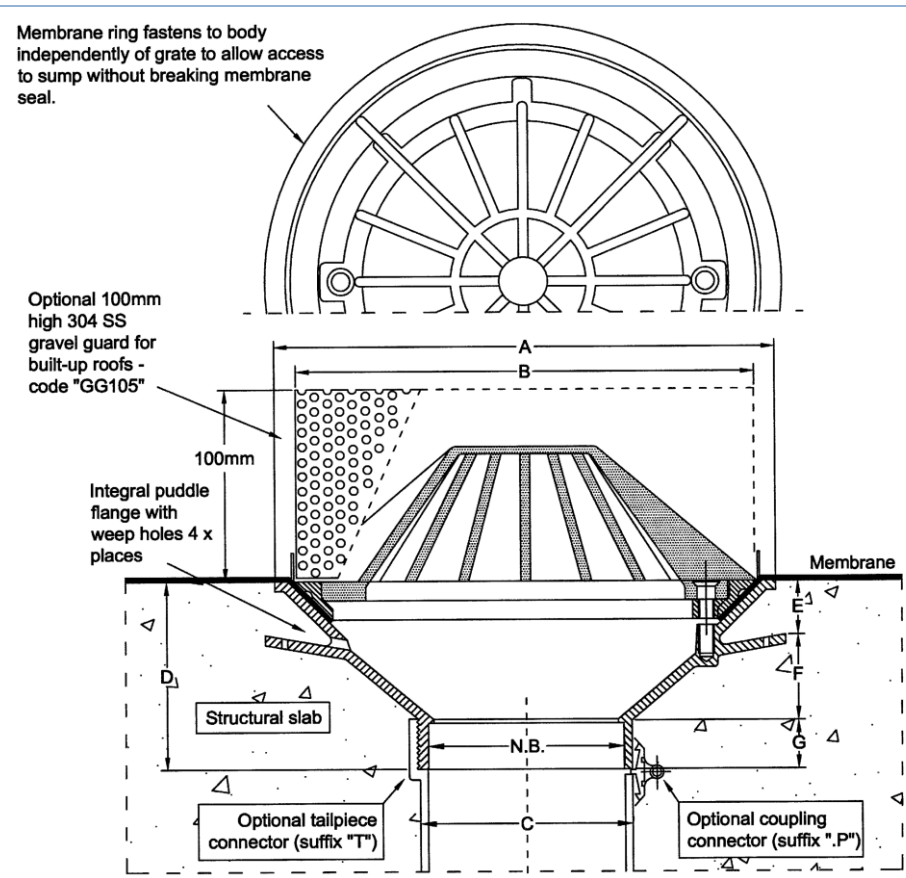
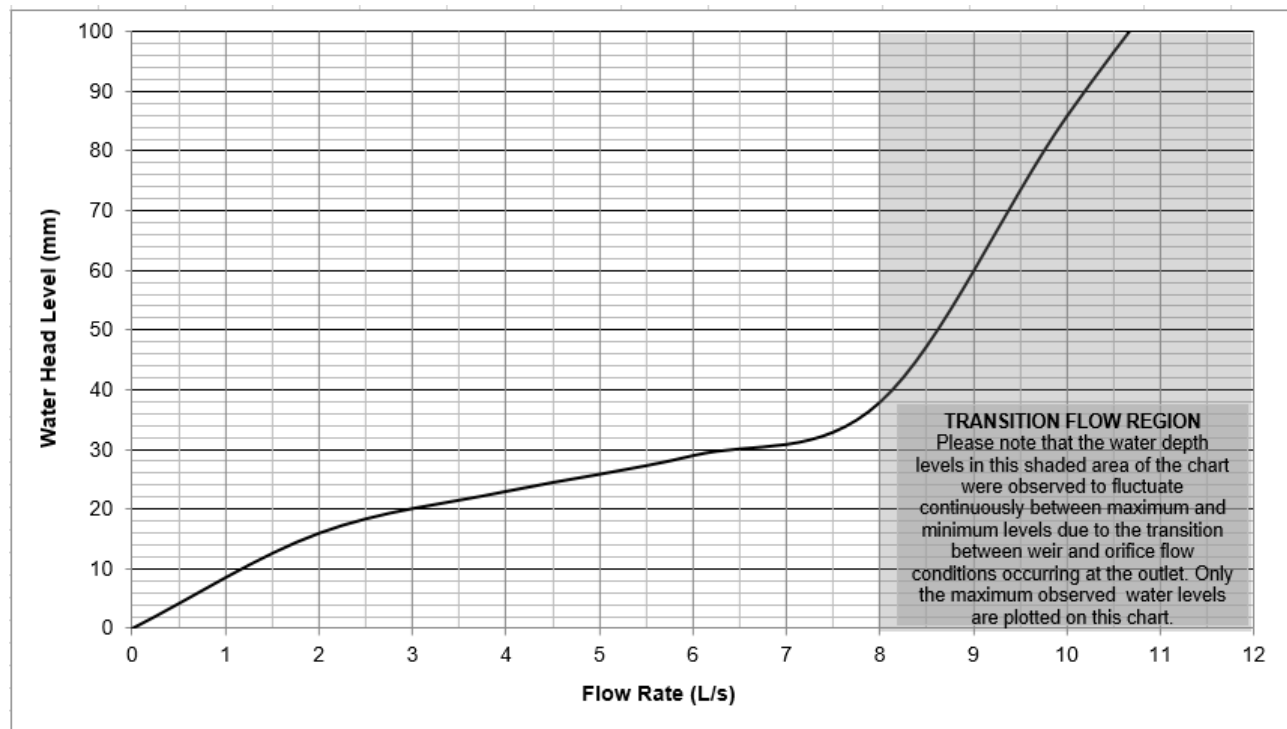


**OUTLET PERFORMANCE CERTIFICATE ID: SPS022 – TIA100D2**

Test Results		ID: SPS022
<b>Description</b>	SPS Truflo RWO	
<b>Drain Type</b>	Dome Grate and Membrane Clamp	
<b>Model</b>	TIA100D2	
<b>Outlet Size</b>	100NB	
<b>Test Date</b>	14/09/2016	
<b>Grate and Housing Drawing</b>	<p>Membrane ring fastens to body independently of grate to allow access to sump without breaking membrane seal.</p>  <p>Optional 100mm high 304 SS gravel guard for built-up roofs - code "GG105"</p> <p>100mm</p> <p>Integral puddle flange with weep holes 4 x places</p> <p>Structural slab</p> <p>Optional tailpiece connector (suffix "T")</p> <p>Optional coupling connector (suffix ".P")</p> <p>Membrane</p> <p>N.B.</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p> <p>SPS Catalogue Ref: 1.04</p>	
<b>Drain Pipe Configuration</b>	<p>Standard pipe configuration as shown in AHSCA test procedure.</p> <p>Threaded tail piece connector.</p>	

### Flow Characteristic Curve – TIA100D2



Weir Flow 8 L/s (37mm)



Surcharged Flow >12 L/s

#### Observation Comments:

- Flow rates from 0-8.0 L/s (37mm Head) produced a linear characteristic curve with the exception of open outlet which increased water head level rapidly at 8.0 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.
- Above 12.0L/s the flow surcharged.
- 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: 7<sup>th</sup> June 2017

Date: 7<sup>th</sup> June 2017