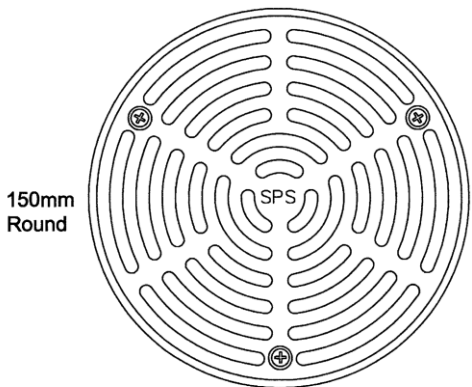
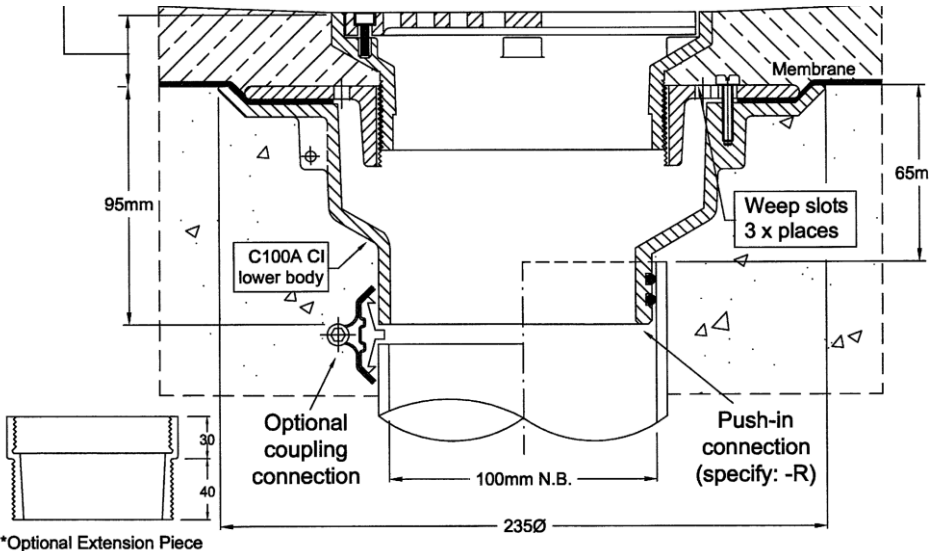
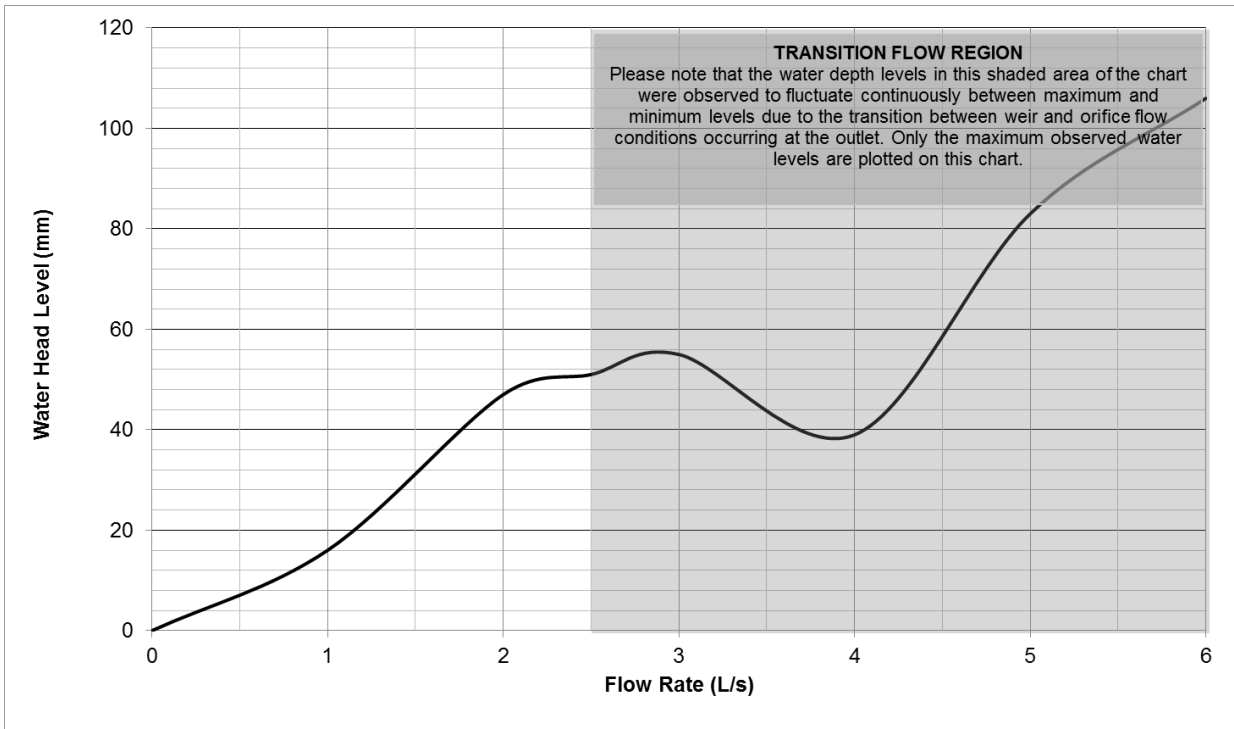


OUTLET PERFORMANCE CERTIFICATE ID: SPS013 - R150S4/C

Test Results		ID: SPS013
Description	SPS Vari-Level Vertical Drain	
Drain Type	150mm Round	
Model	R150S4/C	
Outlet Size	100NB	
Test Date	12/09/2016	
Grate Drawing	 <p>150mm Round</p> <p>SPS</p> <p>SPS Catalogue Ref: 3.09</p>	
Housing Drawing	 <p>Membrane</p> <p>95mm</p> <p>65mm</p> <p>C100A CI lower body</p> <p>Weep slots 3 x places</p> <p>Optional coupling connection</p> <p>100mm N.B.</p> <p>Push-in connection (specify: -R)</p> <p>235Ø</p> <p>**Optional Extension Piece</p>	
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure. C100A Body with push in 5mm O-ring connection.	

Flow Characteristic Curve – R150S4/C



Weir Flow – 2.5 L/s (50mm)



Surcharged flow – 4 L/s (30mm)

Observation Comments:

- Flow rates from 0-2.5 L/s (50mm) produced a linear characteristic curve which began to flatten at 2.5 L/s.
- At 3.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 20mm.
- At 4.0 L/s the flow surcharged and stabilised at 30mm head level.
- Flowrates between 5-6 L/s produced surcharged flow conditions with the water head fluctuating 40mm.
- The maximum flow limit to maintain weir flow conditions is 2.5 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: 16th November 2016

Date: 16th November 2016