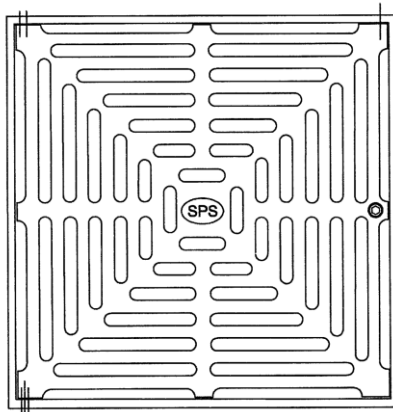
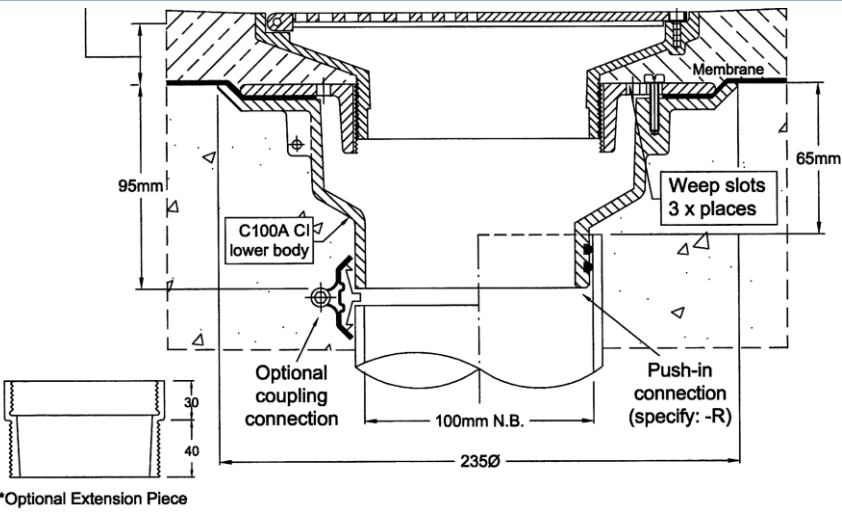
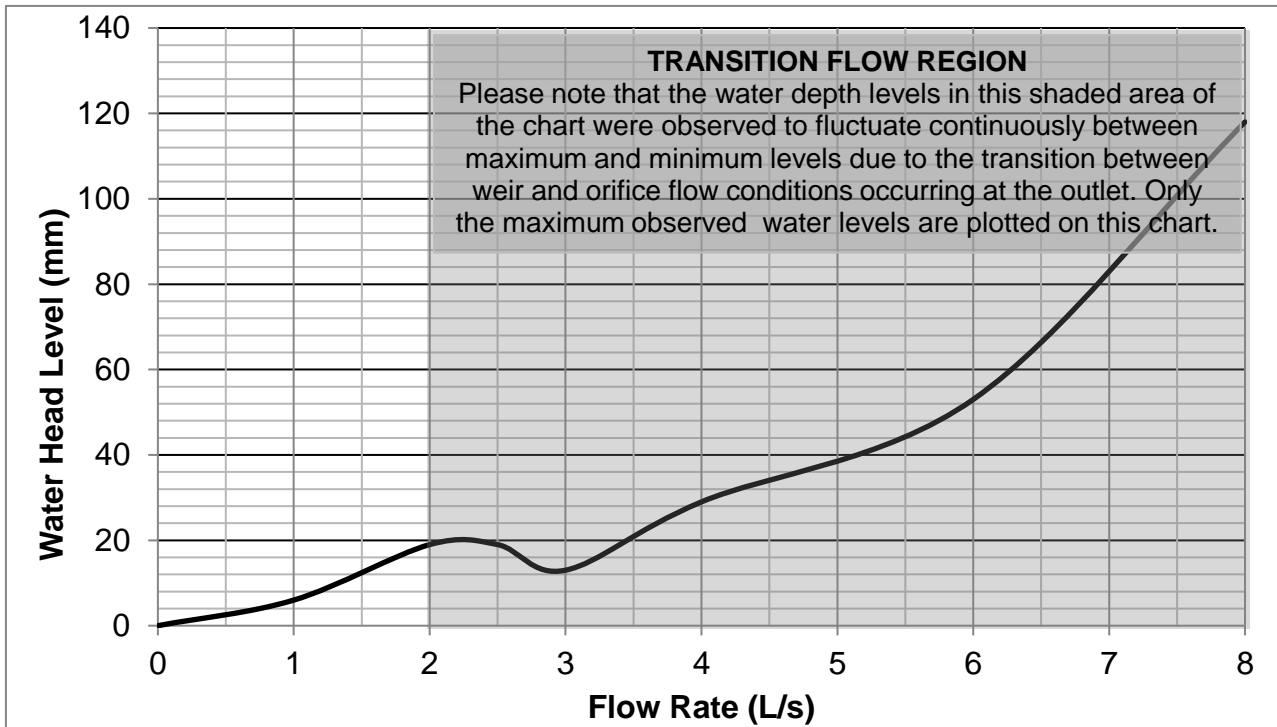


## OUTLET PERFORMANCE CERTIFICATE ID: SPS015 – Q200S4/C

Test Results		ID: SPS015
<b>Description</b>	SPS Vari-Level Vertical Drain	
<b>Drain Type</b>	200mm Square	
<b>Model</b>	Q200S4/C	
<b>Outlet Size</b>	100NB	
<b>Test Date</b>	19/09/2016	
<b>Grate Drawing</b>	<p>High-heel friendly pattern (6mm gaps)</p>  <ul style="list-style-type: none"> <li>• Height-adjustable hinged grate assembly.</li> <li>• Available in nickel bronze, 304 &amp; 316 stainless steel. Bronze non-stock option.</li> <li>• C100A CI "deluxe" lower body with reversible clamp collar.</li> </ul> <p>Typical Application SPS Catalogue Ref: 3.12</p>	
<b>Housing Drawing</b>	 <p>**Optional Extension Piece</p>	
<b>Drain Pipe Configuration</b>	Standard pipe configuration as shown in figures 3-6 of test procedure. C100A Body with threaded tail piece connection.	

**Flow Characteristic Curve – Q200S4/C**



Weir Flow – 2.0 L/s (20mm)



Orifice flow – 4.0 L/s (30mm)

**Observation Comments:**

- Flow rates from 0-2.0 L/s (20mm Head) 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 10mm.
- At 4.0 L/s the flow surcharged.
- Flowrates between 5.0-8.0 L/s produced surcharged flow conditions with the water head rising rapidly or fluctuating 40 mm with the vertical pipe.
- The maximum flow limit to maintain weir flow conditions is 2.0 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