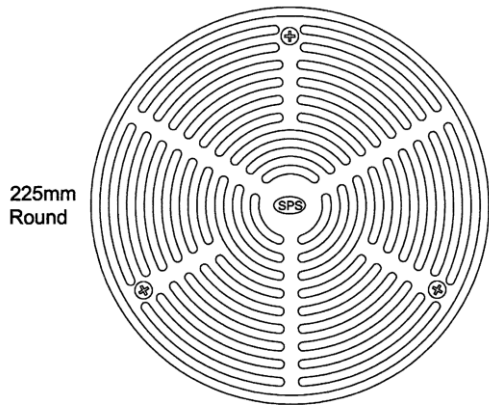
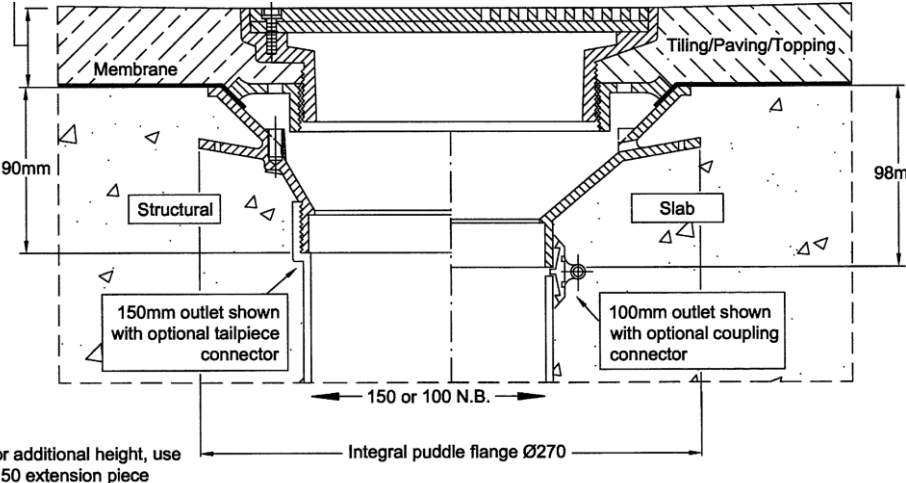
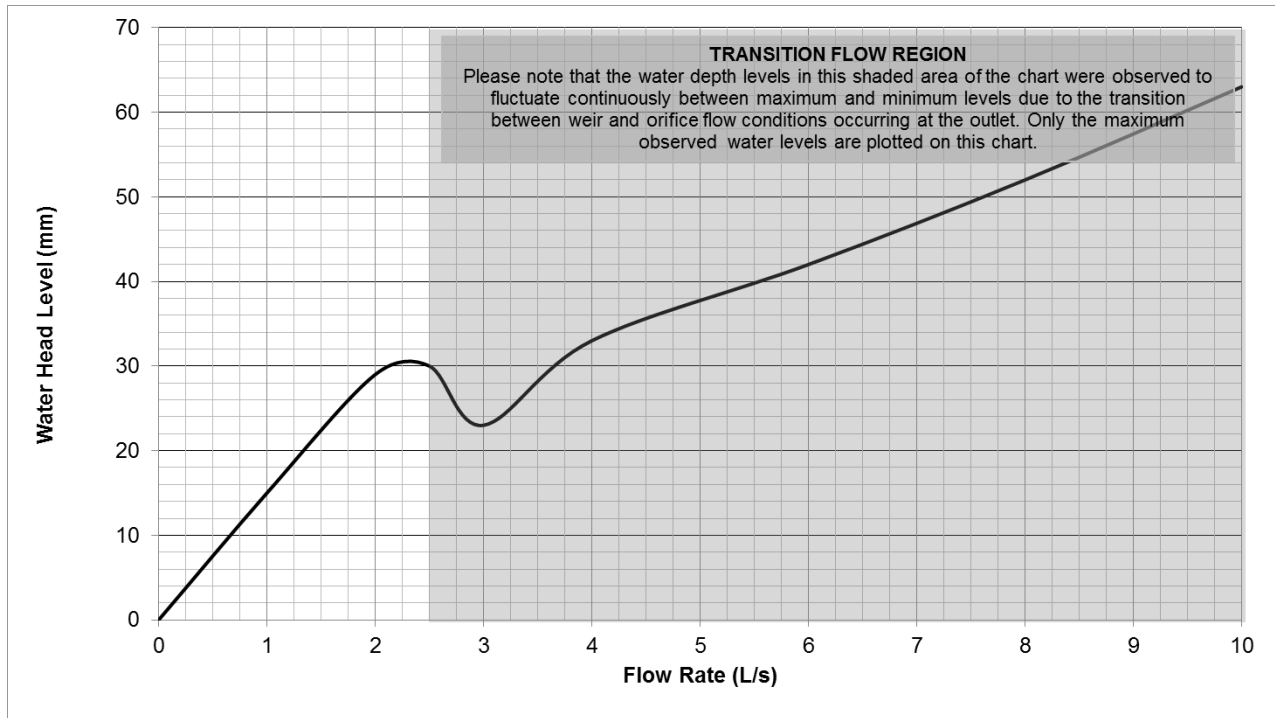


**OUTLET PERFORMANCE CERTIFICATE ID: SPS018 - R225S4/C150**

Test Results		ID: SPS018
<b>Description</b>	SPS Vari-Level Vertical Drain	
<b>Drain Type</b>	225mm Round	
<b>Model</b>	R225S4/C150	
<b>Outlet Size</b>	150NB	
<b>Test Date</b>	27/09/2016	
<b>Grate Drawing</b>	<p style="text-align: center;">High-heel friendly pattern (5.5mm gaps)</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>225mm Round</p> </div> <div style="font-size: small;"> <ul style="list-style-type: none"> <li>Height-adjustable round grate &amp; frame.</li> <li>Grate assembly available in nickel-bronze, 304 and 316 stainless steel.</li> <li>150mm or 100mm Truflor lower body with reversible clamp collar.</li> </ul> </div> </div> <p style="text-align: center;">SPS Catalogue Ref: 3.17</p>	
<b>Housing Drawing</b>		
<b>Drain Pipe Configuration</b>	Standard pipe configuration as shown in AHSCA test procedure.	

### Flow Characteristic Curve – R225S4/C150



Weir Flow – 2.5 L/s (30mm)



Choked Flow – 6 L/s (42mm)

#### Observation Comments:

- Flow rates from 0-2.0 L/s (30mm 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 choked flow characterised by the water level fluctuating 10mm.
- Flowrates between 4-10 L/s produced choked flow conditions with the water head rising rapidly to 65mm.
- 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: 12<sup>th</sup> June 2017

Date: 12<sup>th</sup> June 2017