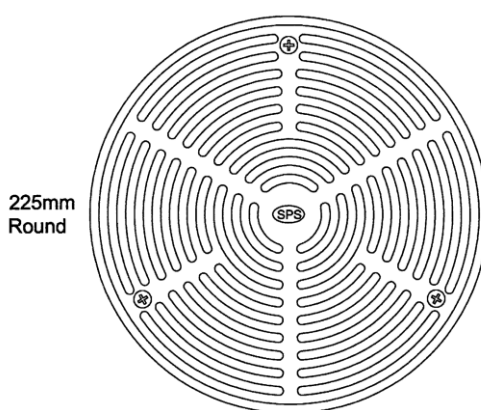
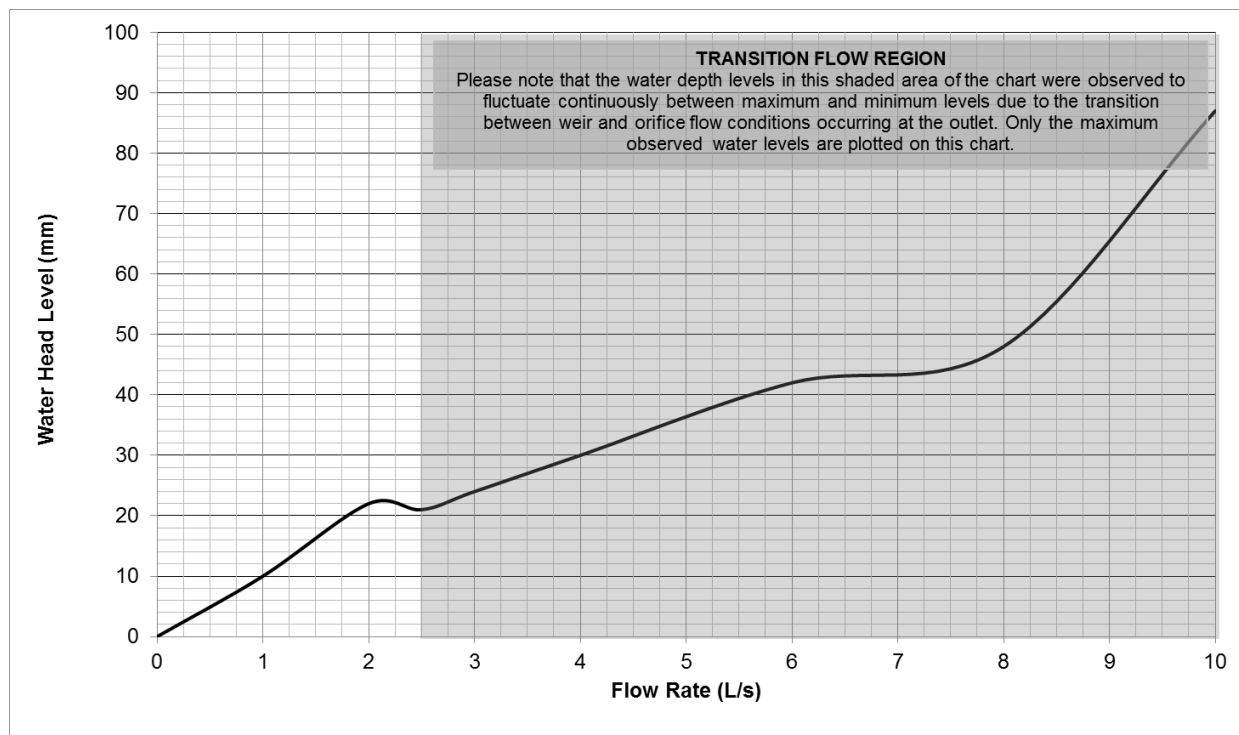


OUTLET PERFORMANCE CERTIFICATE ID: SPS018 - R225S4/C150

Test Results ID: SPS018	
Description	SPS Vari-Level Vertical Drain
Drain Type	225mm Round
Model	R225S4/C150
Outlet Size	150NB
Test Date	27/09/2016
Grate Drawing	<p>High-heel friendly pattern (5.5mm gaps)</p>  <p>225mm Round</p> <ul style="list-style-type: none"> • Height-adjustable round grate & frame. • Grate assembly available in nickel-bronze, 304 and 316 stainless steel. • 150mm or 100mm Truflo lower body with reversible clamp collar. <p>SPS Catalogue Ref: 3.17</p>
Housing Drawing	<p>This housing not tested, refer to 4.9 Test Results Push In Floor SPS009 – Q225/150SR4</p>
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure.

Flow Characteristic Curve – R225S4/C150



Weir Flow – 2.5 L/s (20mm)



Surcharged Flow – 6 L/s (40mm)

Observation Comments:

- Flow rates from 0-2.0 L/s (20 mm Head) produced a linear characteristic curve which began to flatten at 2.5 L/s.
- At 3.0 - 4.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 5 mm.
- Flowrates between 5-10 L/s produced surcharged flow conditions with the water head rising rapidly to 90 mm.
- 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