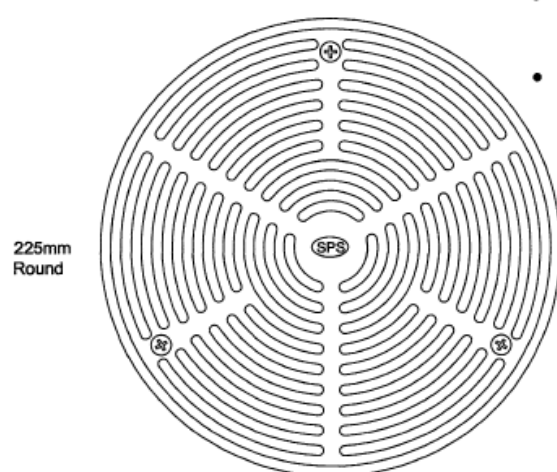
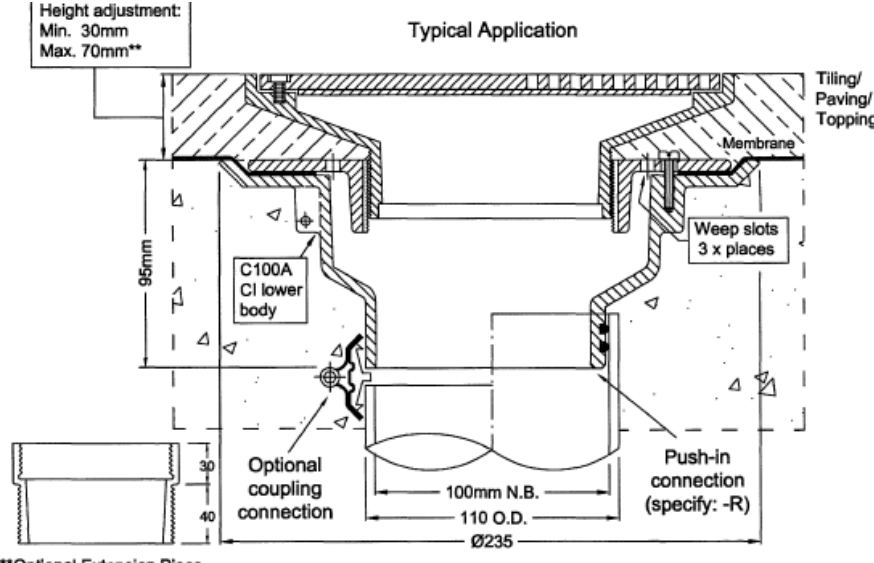
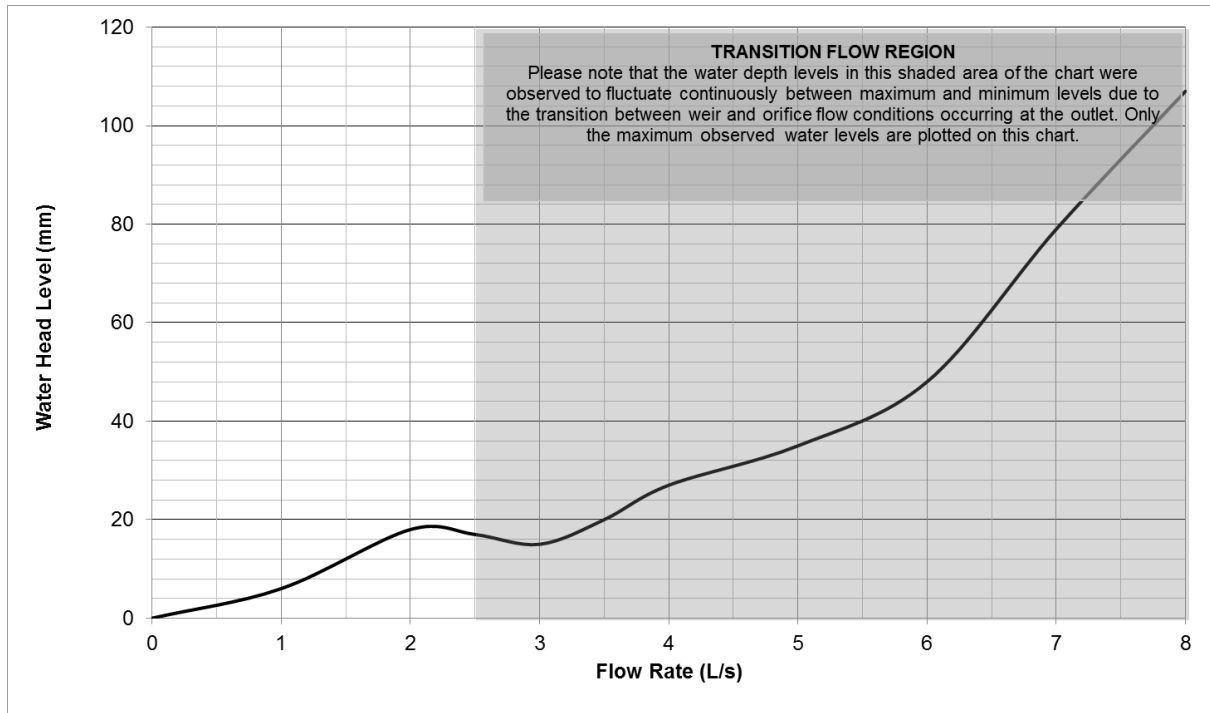


OUTLET PERFORMANCE CERTIFICATE ID: SPS014 – R225S4C

Test Results		ID: SPS014
Description	SPS Vari-Level Vertical Drain	
Drain Type	225mm Round	
Model	R225S4/C	
Outlet Size	100NB	
Test Date	16/09/2016	
Grate Drawing	<p>High-heel friendly pattern (5.5mm gaps)</p> <ul style="list-style-type: none"> Available in nickel bronze and 316 stainless steel. 304SS non-stock option. C100A "deluxe" CI lower body with reversible clamp collar.  <p>225mm Round</p> <p>SPS Catalogue Ref: 3.14</p>	
Housing Drawing	<p>Height adjustment: Min. 30mm Max. 70mm**</p> <p>Typical Application</p>  <p>Tiling/Paving/Topping</p> <p>Membrane</p> <p>Weep slots 3 x places</p> <p>C100A CI lower body</p> <p>95mm</p> <p>100mm N.B.</p> <p>110 O.D.</p> <p>Ø235</p> <p>Push-in connection (specify: -R)</p> <p>Optional coupling connection</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 – R225S4C



Weir Flow – 2.5 L/s (15mm)



Surcharged flow – 4 L/s (30mm)

Observation Comments:

- Flow rates from 0-2.5 L/s (15mm 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 and stabilised at 30mm head level.
- Flowrates between 5-8 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