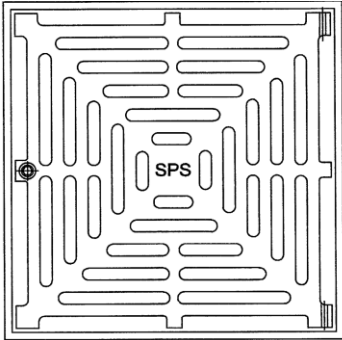
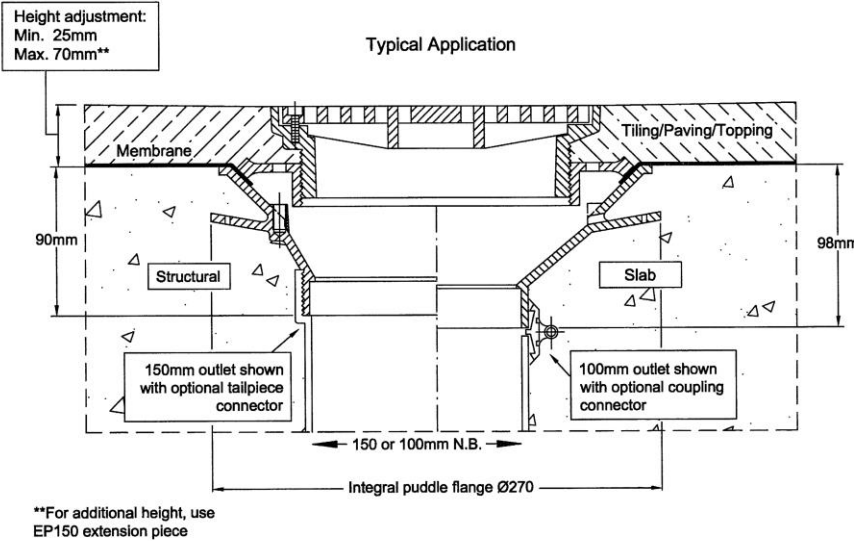
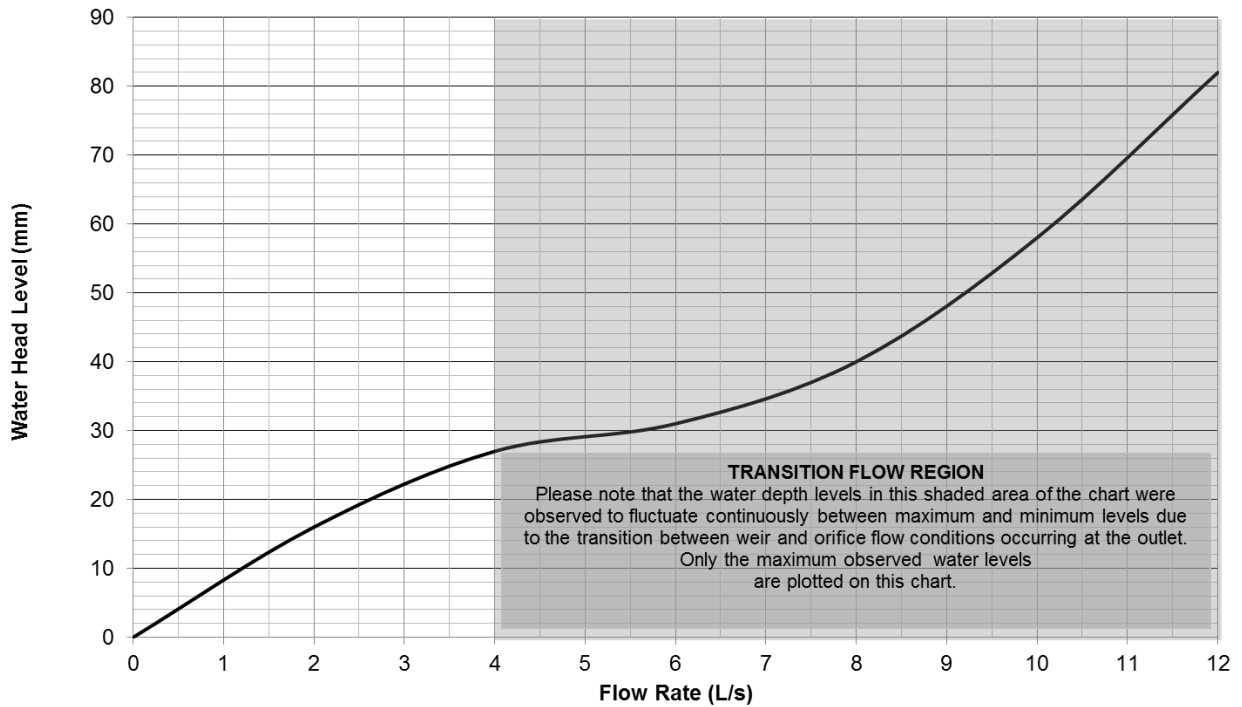


OUTLET PERFORMANCE CERTIFICATE ID: SPS016 - Q200S4/C150

Test Results		ID: SPS016
Description	SPS Vari-Level Vertical Drain	
Drain Type	200mm Square	
Model	Q200S4/C150	
Outlet Size	150NB	
Test Date	27/09/2016	
Grate Drawing	 <ul style="list-style-type: none"> • Height-adjustable hinged grate & frame. • Grate assembly available in nickel-bronze, polished 304 and satin 316 stainless steel. • 150mm or 100mm Truflor lower body with reversible clamp collar. <p>200mm Square</p> <p>SPS Catalogue Ref: 3.16</p>	
Housing Drawing	 <p>Height adjustment: Min. 25mm Max. 70mm**</p> <p>Typical Application</p> <p>Membrane</p> <p>Tiling/Paving/Topping</p> <p>90mm</p> <p>Structural</p> <p>Slab</p> <p>98mm</p> <p>150mm outlet shown with optional tailpiece connector</p> <p>100mm outlet shown with optional coupling connector</p> <p>150 or 100mm N.B.</p> <p>Integral puddle flange Ø270</p> <p>**For additional height, use EP150 extension piece</p>	
Drain Pipe Configuration	<p>Standard pipe configuration as shown in AHSCA test procedure.</p> <p>Truflor Vari-level drain body with CC100 Clamp Collar. Threaded 150NB tail piece connection.</p>	
Flow Characteristic Curve – Q200S4/C150		



Weir Flow – 4 L/s (25mm)



Orifice Flow – 6 L/s (30mm)

Observation Comments:

- Flow rates from 0-4.0 L/s (25mm Head) produced a linear characteristic.
- At 5.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow characterised by the water level fluctuating 10mm.
- Flowrates between 6.0-12.0 L/s produced surcharged flow conditions with the water head rising rapidly to 80mm.
- The maximum flow limit to maintain weir flow conditions is 4.0 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: 16th November 2016

Date: 16th November 2016