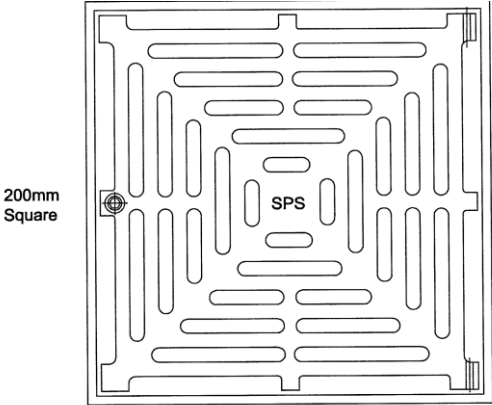
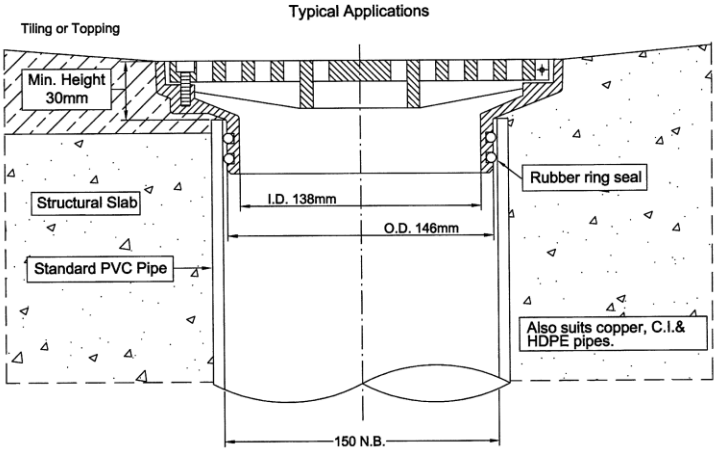
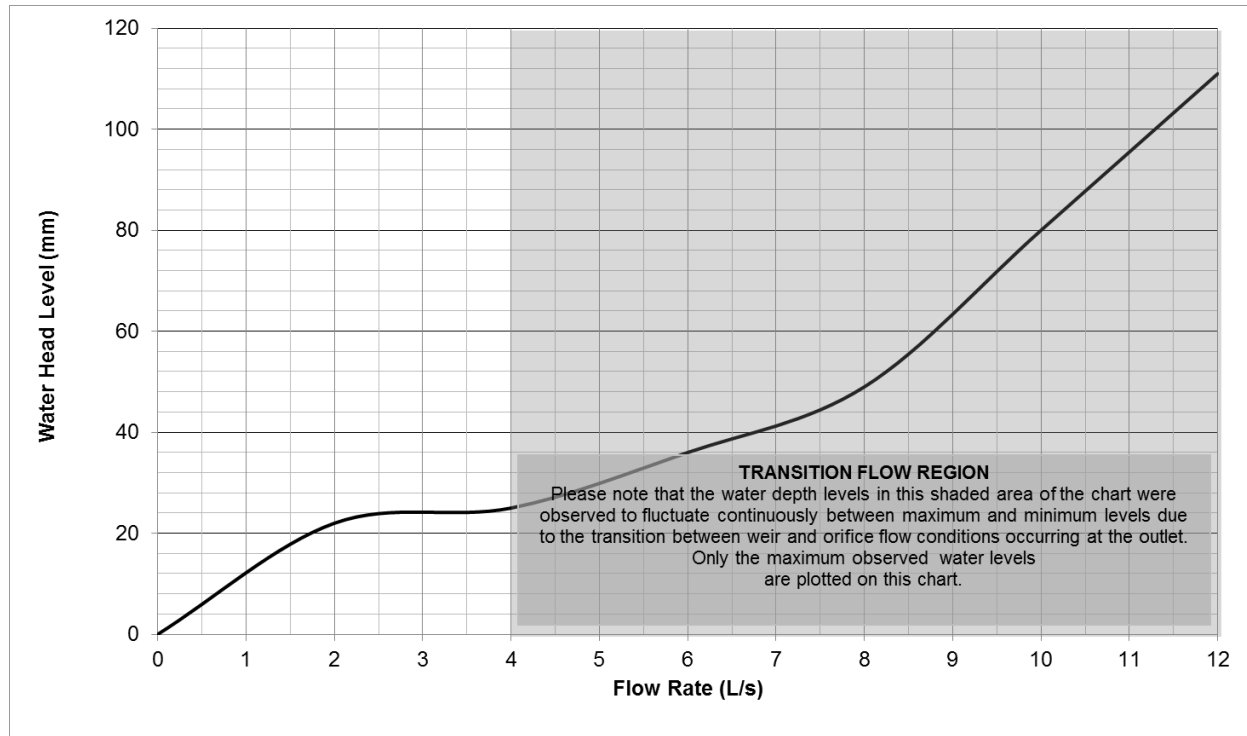


**OUTLET PERFORMANCE CERTIFICATE ID: SPS008 – Q200/150SR**

Test Results		ID: SPS008
<b>Description</b>	SPS Push In Floor Drain	
<b>Drain Type</b>	200mm Square	
<b>Model</b>	Q200/150SR	
<b>Outlet Size</b>	150NB	
<b>Test Date</b>	27/09/2016	
<b>Grate Drawing</b>	 <p>200mm Square</p> <p>SPS</p> <p>SPS Catalogue Ref: 2.20</p>	
<b>Housing Drawing</b>	 <p>Typical Applications</p> <p>Tiling or Topping</p> <p>Min. Height 30mm</p> <p>Structural Slab</p> <p>Standard PVC Pipe</p> <p>I.D. 138mm</p> <p>O.D. 146mm</p> <p>Rubber ring seal</p> <p>Also suits copper, C.I. &amp; HDPE pipes.</p> <p>150 N.B.</p>	
<b>Drain Pipe Configuration</b>	Standard pipe configuration as shown in AHSCA test procedure.	

### Flow Characteristic Curve – Q200/150SR



Weir Flow – 4.0 L/s (25 mm)



Orifice Flow – 6.0 L/s (36 mm)

#### Observation Comments:

- Flow rates from 0-2.0 L/s (22mm Head) produced a linear characteristic curve which began to flatten at 2.5 L/s.
- At 4.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and choked flow characterised by the water level fluctuating 10mm.
- Flow rates between 6-12 L/s produced choked flow conditions with the water head rising rapidly to 110mm.
- 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: 12<sup>th</sup> June 2017

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