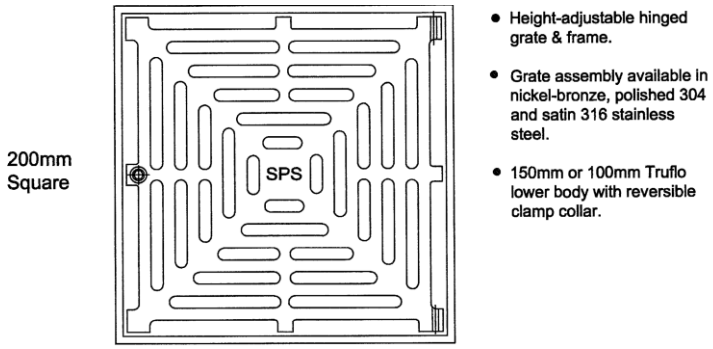
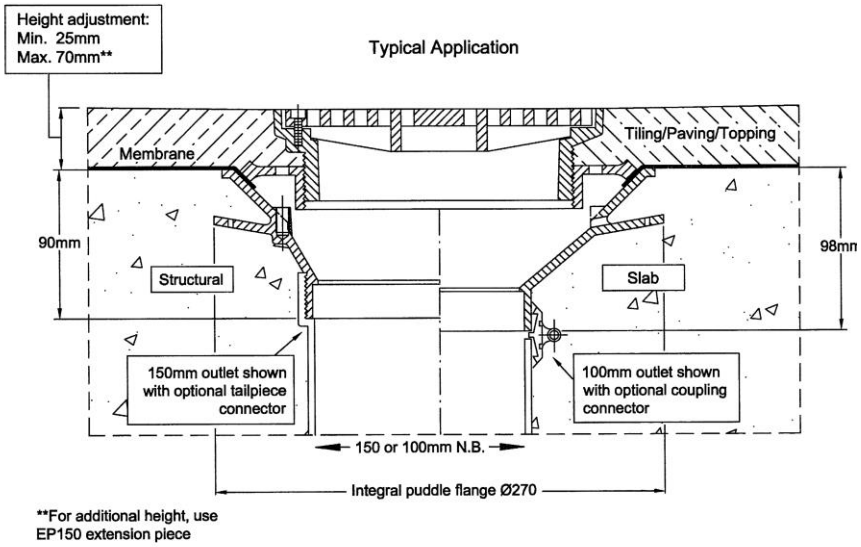
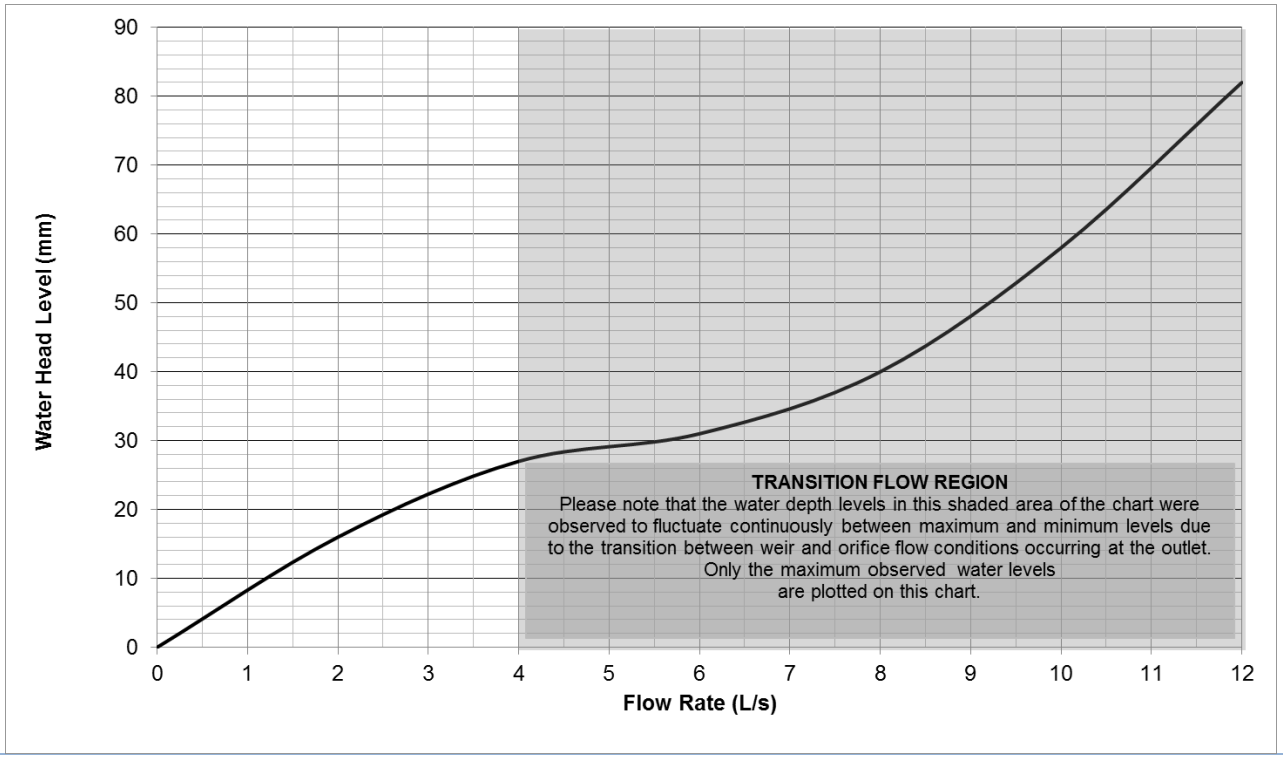
OUTLET PERFORMANCE CERTIFICATE ID: SPS016 - Q200S4/C150

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	 SPS Catalogue Ref: 3.16
Housing Drawing	
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure. Truflo Vari-level drain body with CC100 Clamp Collar. Threaded 150NB tail piece connection.
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:

Date: 16th November 2016

Mark Alexander,
AHSCA Foundation Chairman:

Date: 16th November 2016