

## OUTLET PERFORMANCE CERTIFICATE ID: SPS008 - Q200/150SR

Test Results	ID: SPS008
Description	SPS Push In Floor Drain
Drain Type	200mm Square
Model	Q200/150SR
Outlet Size	150NB
Test Date	27/09/2016
Grate Drawing	200mm Square SPS Catalogue Ref: 2.20
Housing Drawing	Tiling or Topping  Min. Height 30mm  A  Structural Slab  Standard PVC Pipe A  Also suits copper, C.I.& HDPE pipes.
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure.



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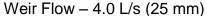
## Association of Hydraulic Services Consultants Australia – Research Foundation

## 120 100 100 80 60 TRANSITION FLOW REGION



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Flow Characteristic Curve – Q200/150SR





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Please note that the water depth levels in this shaded area of the chart were observed to fluctuate continuously between maximum and minimum levels due

to the transition between weir and orifice flow conditions occurring at the outlet.

Only the maximum observed water levels

are plotted on this chart.

Orifice Flow – 6.0 L/s (36 mm)

## **Observation Comments:**

• Flow rates from 0-2.0 L/s (22mm Head) produced a linear charateristic curve which begain to flattern at 2.5 L/s.

Flow Rate (L/s)

- At 4.0 L/s the weir flow transistoned to vortex flow, cycling between vortex and choked flow charaterised by the water level fluctuating 10mm.
- Flowrates between 6-12 L/s produced choked flow conditions with the water head rising rapidly to 110mm.
- The maximun flow limit to maintain wier 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: 12th June 2017