

OUTLET PERFORMANCE CERTIFICATE ID: SPS036 - PD80CS

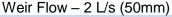
Test Results	ID: SPS036
Description	SPS Parapet Drains
Drain Type	80mm
Model	PD80CS
Outlet Size	80NB
Test Date	11/10/2016
Grate and Housing Drawing	Front View Side View Optional plain spigot outlet (somm & 80mm only) Push-in outlet now standard SPS Catalogue Ref: 1.13
Drain Pipe Configuration	Standard pipe configuration as shown in AHSCA test procedure.
	This outlet was mounted with the 80NB oring connection.
	The outlet is raised 60mm above the tank surface for mounting purposes. Visual water levels need to be corrected 60mm.

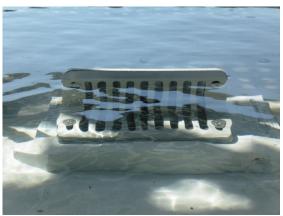


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Flow Characteristic Curve - PD80CS 120 100 Water Head Level (mm) 80 60 TRANSITION FLOW REGION Please note that the water depth levels in this 40 shaded area of the chart were observed to fluctuate continuously between maximum and minimum levels due to the transition between weir and orifice flow conditions occurring at the outlet. Only the maximum observed water levels are 20 plotted on this chart. 0 0.5 2.5 3 3.5 Flow Rate (L/s)







Surcharged Flow – 3.5 L/s (120mm)

Observation Comments:

- Flow rates from 0-2.0 L/s (50mm Head) produced a flat characteristic curve with weir flow conditions.
- At 2.5 L/s the weir flow transitioned to vortex flow, then to surcharged flow at 3.5 L/s (120mm) characterised by a sudden priming of the outlet and water level flucuating 50mm.
- The maximum flow limit to maintain weir flow conditions is 2.0 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

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