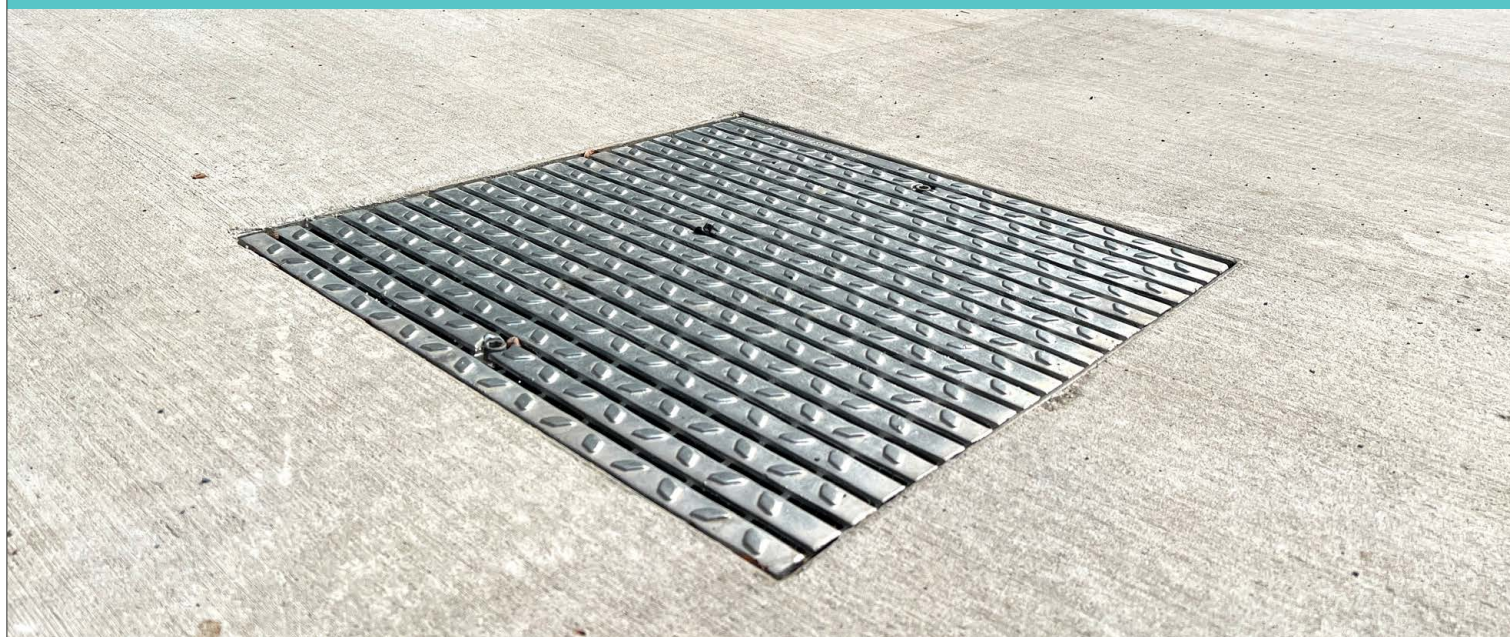


Galvanised HEELPROOF™ Grate & Frame

The HEELPROOF™ grate is an ideal product for use on common sized concrete sumps, where pedestrian or cycle safety is required.



TECHNICAL GUIDE: **CG5.1**

Applications

High Volume Pedestrian Areas
Cycleways
Service Stations
Sump and trench versions available

Features

Screened grate style reduces aperture
Anti-slip cleats for improved slip resistance
Galvanised steel construction for long life
Class B and Class D rating
Flat edged frame for ease of use with pavers or concrete/asphalt

Approvals / Standards

Load Tested to AS3996:2019
Class B and Class D
P5 rated for slip resistance to AS4586-2013






The EJ HeelProof grates are made from durable galvanised steel for a long service life.


They are ideal for high volume pedestrian walkway and busy cycleways. With Class B and Class D load ratings, there is a grate suitable for all shared space applications.

Product Attributes

- Galvanised finish for long life.
- Anti-slip cleat surface for improved slip resistance.
- Narrow openings make the grates safe for all footwear.
- Galvanised lugged frame for easy embedding in concrete.

TABLE 1 HeelProof available sizes

Code	Dimensions
SUMP FRAME AND GRATES	
CLASS B (Pedestrian/Light Traffic 80 kN or 2.67 tonne wheel load)	
GGHS450450BGF	450 x 450
GGHS610610BGF	610 x 610
GGHS675450BGF	675 x 450
GGHS910610BGF	910 x 610
GGHS910910BGF	910 x 910
CLASS D (Heavy Traffic 240 kN or 8 tonne wheel load)	
GGHS300300DGF	300 x 300
GGHS450450DGF	450 x 450
GGHS610610DGF	610 x 610
GGHS675450DGF	675 x 450
 GGHS910610DGF	910 x 610
GGHS910910DGF	910 x 910
TRENCH FRAME AND GRATES*	
CLASS B (Pedestrian/Light Traffic 80 kN or 2.67 tonne wheel load)	
 GGHT1501000B	150 x 1 m
 GGHT2501000B	250 x 1 m
GGHT3001000B	300 x 1 m
CLASS D (Heavy Traffic 240 kN or 8 tonne wheel load)	
 GGHT1501000D	150 x 1 m
 GGHT2501000D	250 x 1 m
GGHT3001000D	300 x 1 m

 = Available on Indent order only

* Sold per metre. Supplied as 2 metre length that can be cut down to 1 metre.



FIG. 1



FIG. 2

Flow Rate Calculations

Assumptions

- 1. Standard orifice flow conditions exist
- 2. Grates are installed flush to the ground in a level area
- 3. The inlet is not fully drowned (orifice discharges to atmosphere)
- 4. Effects of Turbulence and Friction are not calculated
- 5. Ponding water is assumed to act as a reservoir with negligible flow velocity

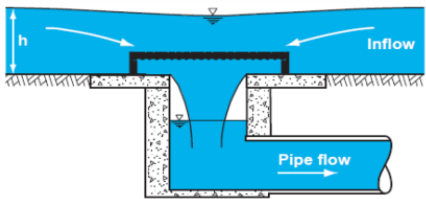
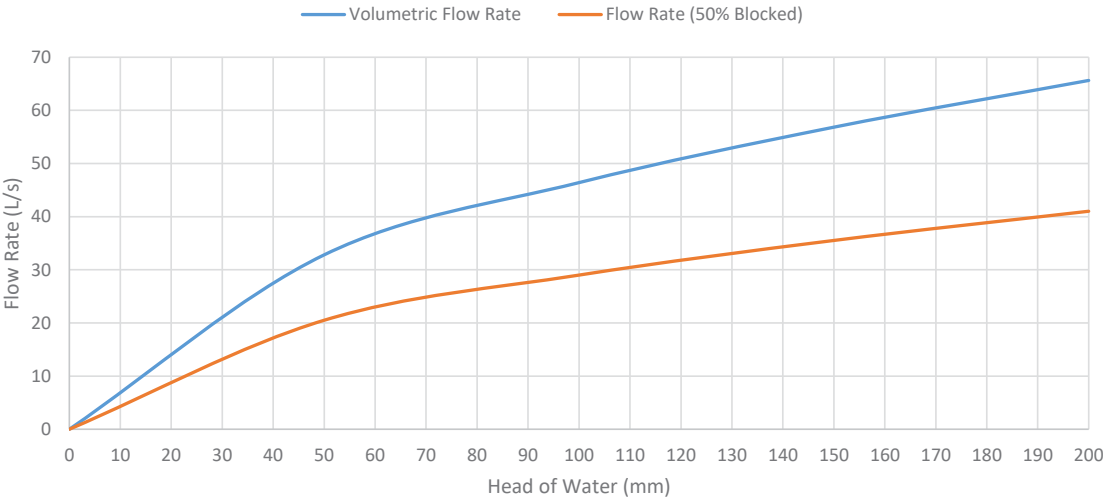
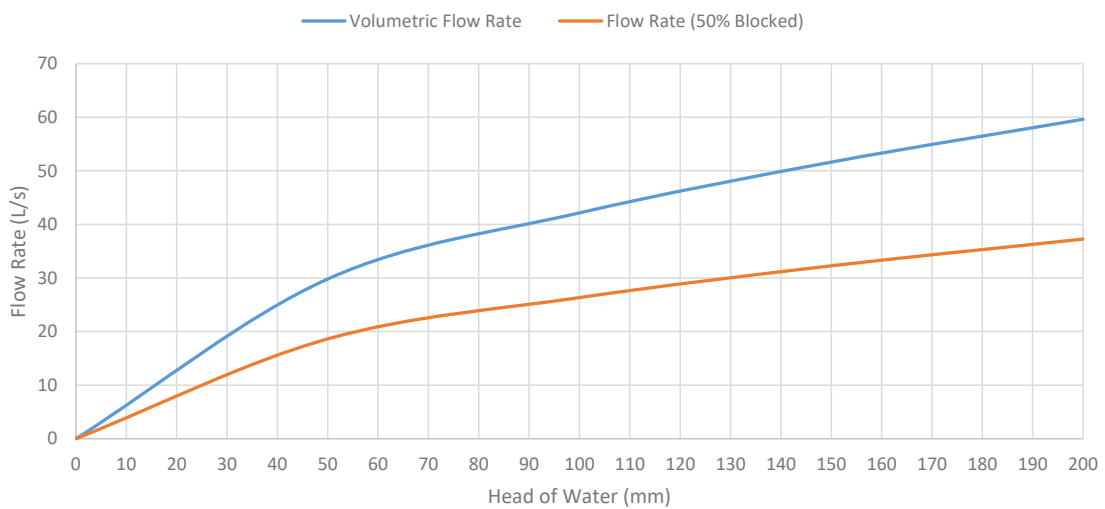


FIG. 3 Orifice flow conditions (Queensland Transport, 2013).
Note: Illustration only. Correct installation requires that grates are mounted flush with ground.

Flow Rate Estimate GGHS675450AGF



Flow Rate Estimate GGHS675450DGF



Disclaimer: Full flow rate estimate reports are available on request.



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information

Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hygrade Water product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hygrade Water unless expressly stated in any sale and purchase agreement entered into between Hygrade Water and the user.

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