

Hydro Slam Lock **Stormwater Grate and Frame**

grate that is visually appealing, cycle friendly, compliant with the latest standards, and has a superior flow capture capability.



TECHNICAL GUIDE: CG3.6

Applications

Stormwater catch pits, where high performance and public safety are critical

Main arterial roads with high traffic volumes

Product Attributes

The "Slam Lock" feature ensures positive closure

Ductile iron casting sustains high impact loads

Large open area gives an increased hydraulic capture

A visually appealing grate that is cycle friendly

Grate is hinged and retained by torsion locking catches no accidental opening

Lightweight, flat design to replace the conventional heavy concave grate and frame

Approval/Standards

Manufactured and tested to AS3996:2019 Class D Loading and HN-HO-72 Transit Loading 240kN

Complies with Auckland Council and Auckland Transport safety requirements for catch-pit inlet grates

Quality

ISO 9001:2008 Quality Management Standard

The Hydro Stormwater Grate is a high quality cast Ductile Iron product. It is designed to provide many years of reliable service in even the busiest roads. The new "Slam Lock" feature will provide security from accidental opening by the public, making it ideal for residential areas where children may play.

Design Specifications

- Matches the clear opening dimensions of the corresponding standard concrete sumps.
- Frame incorporates side locking for better anchoring in the surrounding concrete apron.
- With its unique wavy pattern, the Hydro Grate disrupts and captures water flow far more efficiently than a conventional slotted grate.
- Each grate bears the image of a New Zealand fish, the Inanga, to remind people that this grate "Drains to the sea".
- Manufactured with ductile iron up to 35% lighter than a conventional cast iron grate and frame with greater strength.
- All castings are marked with the manufacturer, weight, standard, and class rating, in accordance with Standard AS/NZS 3996:2019.
- Grate opens to a maximum of 115°

Testing

 Tested by the accredited laboratory of WSP International Ltd in accordance with the Standard AS 3996:2019

Durability

 Ductile iron material provides excellent corrosion resistant properties and sustains high impact loads.

Product Range

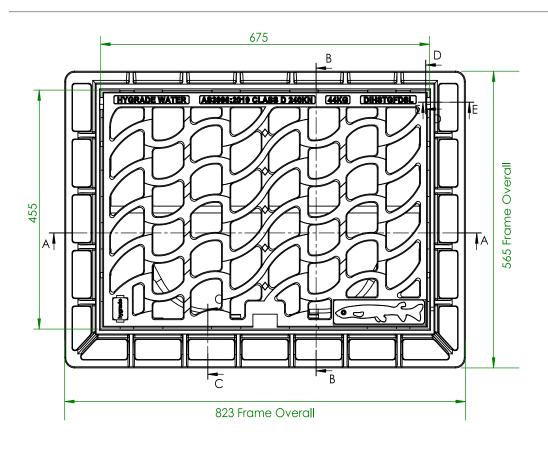
 The "Slam Lock" Hydro Grate is available in the sizes below.

TABLE 1 Product Range

Code	Description	Weight (kg)
DIHSTGFDSL	Hydro DI Stormwater Slam Lock 675 x 450 Grate & Frame Class D	66.5
DIHSTGFD8045SL	Hydro DI Stormwater Slam Lock 800 x 450 Grate & Frame Class D	73



Dimensions and Flow Rates for DIHSTGFDSL



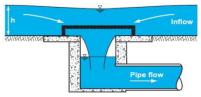
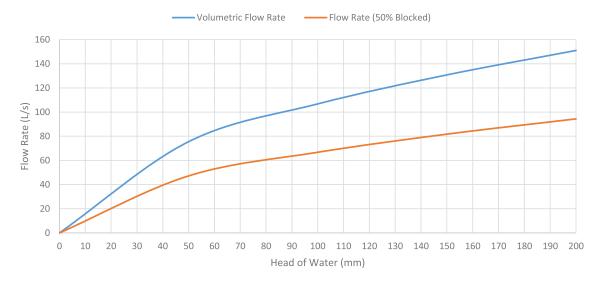
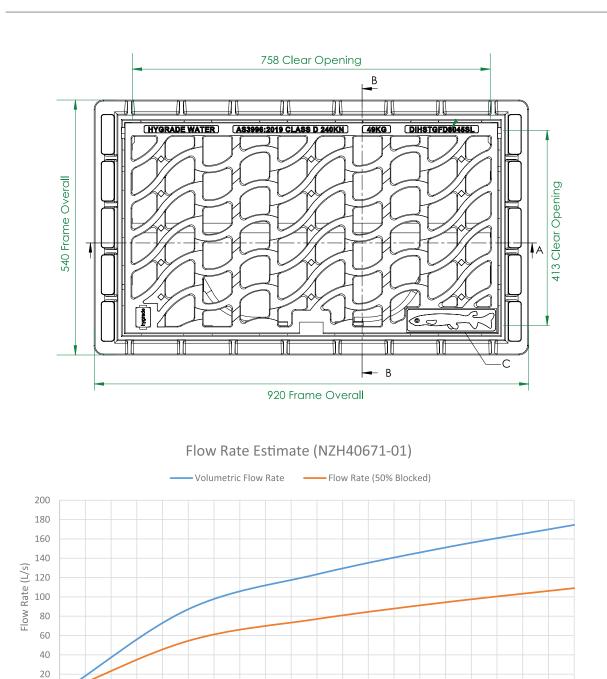


FIG. 1 Estimation Method: Orifice Flow Condition

Flow Rate Estimate (DIHSTGFDSL)





Dimensions and Flow Rates for DIHSTGFD8045SL

FIG. 2 Flow rate for 800 x 450

40 50 60 70 80

30

0

0 10 20

Scan for more information

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90 100 110 120 130 140 150 160 170 180 190 200

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Head of Water (mm)

