

Hydro Stormwater Grate and Frame

Technical Guide D16.5

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10.24 | DRAINAGE | D16.5 HYDRO STORMWATER GRATE AND FRAME

Applications

Stormwater applications, where higher performance is critical

Product Attributes

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 bolted down – no more stolen grates

Lightweight and flat level design replaces the heavy concave conventional grate and frame

Approvals/Standards

Manufactured and tested to AS3996:2019 Class D240 kN

HN-HO-72 Transit Loading 250 kN

Quality

ISO 9001:2008 Quality Management Standard

We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.

Hydro Stormwater Grate and Frame offers a quality product that is visually appealing, high performance, complies with recognised Standards, and has a superior flow capture capability.

Design Specifications

- Fits the corresponding standard concrete sumps
- Frame incorporates side locking for better anchoring in surrounding concrete apron.
- With its unique wavy pattern, the Hydrograte disrupts and captures water flow far more efficiently than a conventional slotted grate.
- Manufactured with Ductile Iron – up to 35% lighter than a conventional Cast Iron grate and frame.
- To enable identification, all castings are marked with product weight, manufacturer, Standard and class rating, in accordance with Standard AS3996:2019.

Testing

- Tested in accordance with required Standards by third party accredited laboratory of Opus International Consultants Ltd.

Durability

- Ductile Iron material provides excellent corrosion resistant properties and sustains high impact loads

Flow Rates

- Flow rate data for each grate is available upon request.

Availability

- Hydro Grate available in the following sizes



FIG. 1 Hydro 450 x 450mm Grate on std concrete sump, displaying increased capture capability

TABLE 1 Product Range

Code	Description	Weight (kg)
DIHSTGFD450450	Hydro DI Stormwater Grate 450 x 450mm Class D	55
DIHSTGF535340WCC	Hydro DI Stormwater Grate 535 x 450mm Class D (WCC)	45
DIHSTGFD580350W	Hydro DI Stormwater Grate 580 x 350mm Class D Wide Frame	58
DIHSTGFD580350C	Hydro DI Stormwater Grate 580 x 350mm Class D Concave	56

Note: This product range is progressively being replaced by the Slam Lock version

Refer to Technical Guide D16.12

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