

# Catchpit Units Flat Top and Back Entry

Technical Guide D5.1

Manufactured at our state of the art world leading concrete manufacturing plant in Pokeno, the Catchpit Units have improved lower openings and are lighter weight than standard catchpits



02.25 | DRAINAGE | D5.1 HYNDS CESSPIT UNITS FLAT TOP AND BACK ENTRY

## Applications

Stormwater drainage

## Product Attributes

Available as flat top or back entry

Riser units available on request

Durable precast concrete manufacturing

Economical installation

## Approvals/Standards

NZS 3109, Concrete Construction

AS3996-2006, Streetware

## Sustainability

Available in Hynds LC<sup>®</sup> low carbon concrete

Verifiable carbon footprint data available

Customisable for climate-resilient infrastructure

## Quality/Environment/Health & Safety

ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018

Hynds have a range of precast concrete cesspit units, ideal for draining storm water from roadsides and into drainage pipes.

### Installation

- The unit features factory fitted lifting anchors cast into the concrete to allow for safe off-loading and easy economical installation by the contractor.
- Slam Lock Cast iron or ductile iron frames, grates and back inlet kerb blocks are also available through Hynds. Units must be installed on compacted level hardfill.
- The units with the pre-formed soft spots situated in the sidewalls provide easy fitting for outlet pipe work.
- Installation is completed by filling the gap between the holes made for the pipe work with epoxy mortar, backfilling the trench and compacting as required.

### Design Specifications

- Soft spots are cast on all four sides (certain models excluded).
- Flat top cesspit has no back inlet.
- Back entry cesspit available in: 675 x 450 mm standard; and 675 x 450 mm syphon cesspit.
- Hydro 675 x 450 Class D is an excellent alternative to standard grates and frames. Please refer to our D4.16 product sheet for further information.

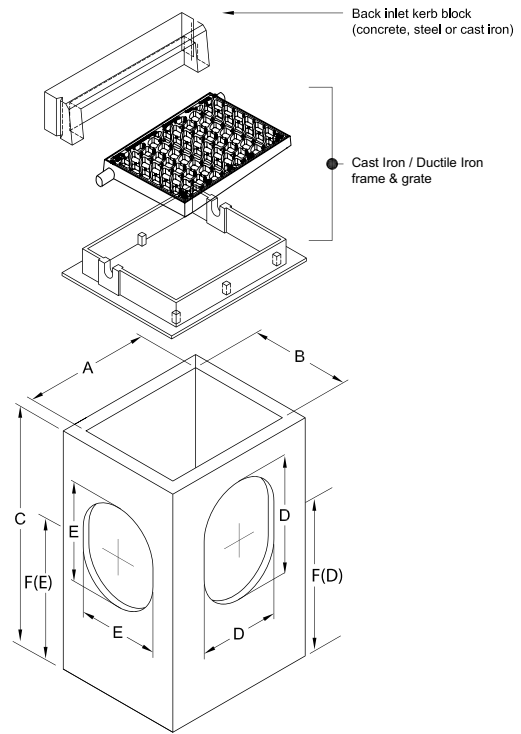


FIG. 1 Flat Top Cesspit (refer to Table 1)

TABLE 1 Flat Top Cesspit Dimensions

Product Code	Internal Size (mm)	External Size (mm)	Soft Spots (mm)		Depth to Centre (mm)		Avg. Thickness (mm)	Mass (kg)
			D(WxH)	E(WxH)	F(D)	F(E)		
	AxBxC (L x W x H)	AxBxC (L x W x H)						
<b>Standard Flat Top</b>								
CPF4504500950M	450 x 450 x 950	600 x 600 x 1025	390 x 390	390 x 390	400	400	75	449
CPF6754500900M	675 x 450 x 900	825 x 600 x 975	319 x 319	244 x 244	295	332.5	75	543
CPF6754501200M	675 x 450 x 1200	825 x 600 x 1275	370 x 435	370 x 435	652.5	652.5	75	709
CPF6754501650M	675 x 450 x 1650	825 x 600 x 1725	339 x 789	339 x 789	910	910	75	956

- Please refer to your local Hynds Branch or contact Hynds Technical Services for further details.
- Available within the North Island Region only.

TABLE 2 Flat Top Cesspit Dimensions

Product Code	Nominal Size (mm) (L x W x H)	Back Entry Dimensions (mm)				Mass (kg)
		L1	L2	H1	H2	
CPB6754500900M	675 x 450 x 900	480	450	100	176	530
CPB6754501200M	675 x 450 x 1200	480	450	100	176	696
CPB6754501650M	675 x 450 x 1650	480	450	100	176	946

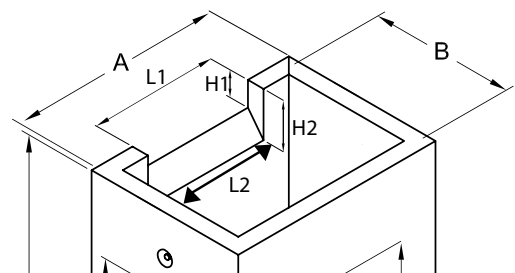


FIG. 2 Back Entry Catchpit Opening Shape

**TABLE 3 Cast Iron Grates and Frames Available**

Product code	Class	Dimensions (mm)	Mass (kg)
CIC450450GF	B	450 x 450	69
CIC675450GF	D	675 x 450	118
CIC675450HDGF	D	675 x 450	117

**TABLE 4 Galvanised Mild Steel Heel Proof Grates and Frames Available**

Product code	Class	Dimensions (mm)	Mass (kg)
GGHS450450AGF	A	450 x 450	16
GGHS450450DGF	D	450 x 450	35
GGHS675450AGF	A	675 x 450	23
GGHS675450DGF	D	675 x 450	59

**TABLE 5 Ductile Iron Hydro Grates and Frames Available**

Product code	Class	Dimensions (mm)	Mass (kg)
DIHSTGFD450450	D	450 x 450	55
DIHSTGFDSL	D	675 x 450	66.5

Note: Products are getting replaced

**TABLE 6 Standard Concrete Kerb Block**

Product code	Mass (kg)
CP900	51

### Also refer to:

D16.12 Hydro Stormwater Grate and Frame Hynds Streetware Catalogue

## Lifting and Handling

Hynds Pipe Systems has designed and manufactured Hynds Cesspit Units Flat Top and Back Entry with a minimum dynamic factor of 1.2. This dynamic factor requires that all the following conditions are observed when lifting, moving or placing the cesspits:

- Lifting with mobile plant (*such as an excavator or similar*) where equipment is specifically exempt from the requirements of the PECPR Regulations 1999, subject to the conditions outlined in the New Zealand Gazette, No. 104, September 2015
- Lifting, travelling and placing over rough or uneven ground where anchor failure is not anticipated to cause harm or injury, by adopting procedures such as:
  - Transporting the element as close as practical to ground level (300mm recommended)
  - Establishing and maintaining exclusion zones
  - Transporting only precast concrete elements that are unlikely to topple if they were to hit the ground
  - Inspecting lifting anchors both after transportation and before final lifting into place
- Hynds uses both Reids and Ancon lifting anchors which are both designed to (*Haeussler*) specifications and as such are compatible with Reid, Deha or Ancon anchors, clutches, and recess formers of the same load range.

Refer to "Safe work with precast concrete - Handling, transportation and erection of precast concrete elements" published by Worksafe New Zealand (October 2018)

Shock loads resulting from travelling with suspended Cesspit Units over rough terrain and uneven ground may exceed design, dynamic and safety factors of the lifting systems. It is essential that care is taken during lifting and transporting as additional stresses could result in anchor failure.

**Branches Nationwide** *Support Office & Technical Services 0800 93 7473*

**Disclaimer:** While every effort has been made to ensure that the information in this document is correct and accurate, users of Hynds 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 Hynds unless expressly stated in any sale and purchase agreement entered into between Hynds and the user.

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PIPE SYSTEMS

The logo for Hynds Pipe Systems features the word "HYNDS" in a bold, white, sans-serif font. Below it, the words "PIPE SYSTEMS" are written in a smaller, white, sans-serif font. A yellow curved line, resembling a stylized pipe or a smile, is positioned at the bottom of the logo.