

# Hynds Splay Catchpit Lids

Technical Guide D5.7

Hynds Splay Catchpit Lids are designed to accompany Auckland Transport single and double Splay Catchpits for a visually appealing and durable stormwater solution.



06.20 | DRAINAGE | D5.7 HYNDS SPLAY CATCHPIT LIDS

## Applications

For use with Auckland Transport Splay Catchpits

## Product Attributes

Increased kerb inlet capacity to 2.4 m (single splay) and 3.6 m (double splay)

Increased inlet capacity of three times more than standard catchpits

Specially textured matte finish lids provide an appealing non-slip surface

## Approvals/Standards

NZS 3109 Concrete Construction

Designed in accordance with Auckland Transport Code of Practice – RD036

## 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.*

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### Design Specifications

- Hynds Splay Catchpit Lids are designed in accordance with Auckland Transport Code of Practice drawing RD036 and RD037.
- Flow rate capability ranges between 75 - 90 L/S.
- One or two way splays for single or double splay catchpits.
- Ø900 mm & Ø1050 mm diameter chambers can be used to accommodate a range of capture capacities. Refer to Hynds Technical Guide D4.1 Hynds Manhole System and D4.3 Hynds Inspection Chamber for dimensions.
- For pipe connections into chambers refer to "Connections" on page 3 of Hynds Technical Guide D4.1 Hynds Manhole System.
- Cast Iron Cover and Frame with a Ø530 mm opening (Hynds code CIMLDCF) used as standard.
- Ductile Iron Cover and Frame with a Ø605 mm opening (Hynds code DIMHSTSTCFB) used as standard.

### Installation

- The Hynds Splay Catchpit Lids comprises of a centre unit and one or two splays for the single or double splay catchpit respectively. The centre unit includes a light duty, cast iron frame and lid to provide access to the chamber riser.
- Once the catchpit and the in-situ sloping apron have been constructed, the centre unit is placed over the chamber riser and lined up with the kerb.
- Jointing compound is placed on the side recess of the centre unit, and the side units lined and placed in position.
- The catchpit is sited behind the kerb line in the footpath. The kerb inlet starts upstream of the catchpit, allowing the water to be directed towards the catchpit by lowering and shaping the approach apron slab.
- The double splay catchpit is often situated at a low point to intercept flow from two directions.
- Refer to ATCoP RD036 drawing for full details of the Auckland Transport Splay Catchpit. For additional information on cast iron lids and concrete risers please refer to our Streetwear Products Catalogue and D4.4 Hynds Inspection Chamber Datasheet.



TABLE 1 Product Information

Product Code	Section	Mass (kg)
LDSP LEFT	Left Splay	275
LDSP RIGHT	Right Splay	275
LDSPMIDDLE	Middle Ø530	436
LDSPMIDDLE605	Middle Ø605	436

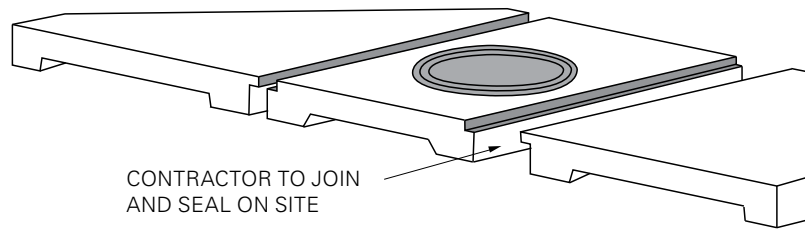


FIG. 1 Isometric view (\*)

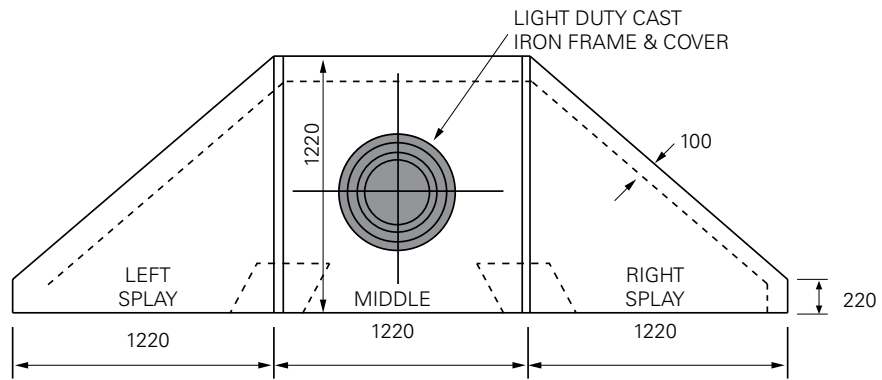


FIG. 2 Plan view (\*)

(\*) Hynds Catchpit Lids Design © J.McCann 2003

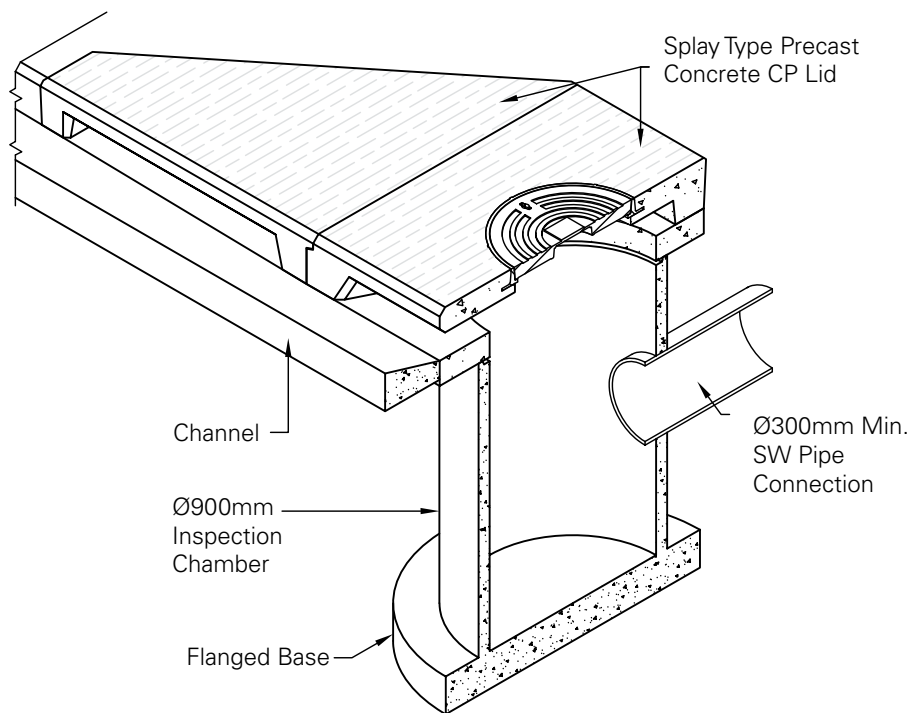


FIG. 3 Isometric View / Cross Section  
N.T.S

## Lifting and Handling

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All Hynds Splay Catchpit Lids incorporate Swiftlift lifting anchors for safe lifting and must be used with the correct lifting clutch.

Hynds Pipe Systems has designed and manufactured Hynds Splay Catchpit Lids 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 catchpit lids:

1. 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 and
2. 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:
  - a. Transporting the element as close as practical to ground level (300mm recommended)
  - b. Establishing and maintaining exclusion zones
  - c. Transporting only precast concrete elements that are unlikely to topple if they were to hit the ground
  - d. Inspecting lifting anchors both after transportation and before final lifting into place

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 splay catchpit lids 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.

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**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.