

# Irrigator Wheel Crossing Slab

Technical Guide R4.6

Hynds precast Irrigator (wheel) crossing slabs are a one piece unit designed for easy installation and years of maintenance free service.



## Applications

Ideal for providing an unobstructed path for Irrigator wheels in undulating or rough ground conditions, as well as small creeks and streams.

Also suitable as a pedestrian or farm bike crossing bridge. (Optional handrails and timber kerbs recommended for this type of use)

## Product Attributes

Durable, one piece, precast concrete unit.

Easy to transport and low installation cost.

Maintenance free

Multiple applications

## Quality/Environment/Health & Safety

Hynds management systems are certified to ISO 9001:2015, 45001:2015, and 14001:2018 standards.

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### Product Detail

- Length: 6000 mm
- Width: 1200 mm
- Thickness: 250 mm
- Mass: 4.6 tonnes
- Product Code: IRRGXSLAB6X1.2

### Design

- Maximum wheel load = 1.5 tonne (15kN point load)
- Wheel spacing 6 meter c/c
- Place on well compacted ground with 100 kPa safe soil bearing capacity
- Minimum of 500 mm deck bearing required at each end (maximum clear span 5000 mm)
- Provision made for Ø50 mm x 1 m long steel tube locating dowel to be driven through each end of the unit

### Lifting and Handling

All Irrigator Wheel Crossing Slabs incorporate lifting anchors for safe lifting and must be used with the correct lifting clutch.

Hynds Pipe Systems has designed and manufactured Irrigator Wheel Crossing Slabs 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 slabs:

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

3. 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 Irrigator Wheel Crossing Slabs 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.

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