Technical Support Sheet - Installation Guide

Hynds Concrete Water Trough

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This installation guide will help you understand the key features of the product and how the product is installed.

Installation

1. Care should be taken when handling and transporting troughs.
2. When troughs are being transported, they should sit on timber dunnage to prevent damage.
3. Troughs must be lifted to be moved, not dragged or pushed.
4. Ensure the site is cleared of rocks and other debris and levelled before the trough is placed.
5. Troughs needs to be placed on firm, even ground which provides uniform support to the base of the entire trough. Take care to ensure that there will be no settlement or erosion of the trough foundation to ensure ongoing uniform support of the trough.
6. Trough are to be lifted and placed with appropriate chains or forks.
7. Lift only ONE trough at a time.
8. Do not move troughs over uneven ground when using cast in lifting anchors, these anchors are not designed for dynamic loads.
9. Check the trough is sitting level using a spirit level.
10. Connect trough valve as per manufacturer's instructions.
11. Connect water supply as per manufacturer's instructions.
12. When connecting ballcock and pipe work to trough, extra care should be taken not to damage or cross thread trough fittings.

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Lifting and Handling

Hynds troughs incorporate lifting anchors system for safe lifting and must be used with the correct lifting clutch. 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.

Hynds Pipe Systems has designed and manufactured Hynds troughs 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 troughs:

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 pipes 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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