

Humes **Helcor** and **Aluflo**



Easy to install, resistant to damage and durable enough to last

Humes Helcor and Humes Aluflo drainage pipes and culverts are both long lasting and economical to suit any requirements.

Helcor (galvanized steel) and Aluflo (aluminium) are widely used by Transit New Zealand, local authorities, the forestry industry and farmers throughout New Zealand. No matter how big your drainage problem, we've got the pipe to cope.

Features

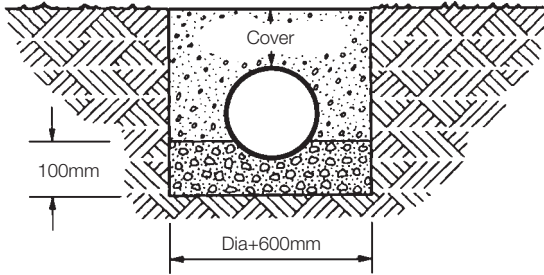
- Helcor steel is 8.3% of the weight of comparable size concrete pipes
- Aluflo aluminium is 3% of the weight of comparable size concrete pipes
- Long lengths minimise jointing
- 4 and 6 metre lengths are standard for all diameters
- Up to 12 metre lengths available on request
- 1.6 gauge aluminium or galvanized steel will support a 40 tonne vehicle if properly installed

Benefits

- Strong and lightweight
- Little or no lifting equipment is required
- Ideal for use in shifting ground



Helcor and Aluflo



Note: Ensure the pipe is not in contact with other metals when installing.

Installation

Bedding

The ideal bedding is 100mm of compacted gravel and sands. Avoid bearing the pipe on large rocks. Cover the bedding with loose granular material to allow the corrugations to become filled.

Backfilling

The ideal backfill is compacted gravel and sand. The strength of the pipe comes largely from the force between the backfill and the pipe. Avoid clay and peat, and soils with organic matter. In difficult wet situations, filter fabrics can be placed around the backfill.

Pipe Sizes and Installation

Diameter		Recommended cover	
Metric (mm)	Imperial (inches)	Farm use (mm)	Highway use (mm)
300	12	300	600
375	15	300	600
450	18	300	600
600	24	300	600
750	30	300	600
900	36	300	600
1050	42	300	600
1200	48	300	600
1350 - 3600	48 - 144	600	600

Diameters up to 3.6 metres and lengths up to 12 metres available on request. Contact Humes Pipeline Systems for further details.

Note that Humes Aluflo maximum diameter = 2400mm

Note that not all configurations are available ex stock for current availability contact your nearest Humes Sales Centre.



Buyers and users of the products described in this brochure must make their own assessment of the suitability and appropriateness of the products for their particular use and the conditions in which they will be used. All queries regarding product suitability, purpose or installation should be directed to the nearest Humes Sales Centre for service and assistance. © Fletcher Concrete and Infrastructure Limited 2007. Printed 07/07.

This avoids the need for excessive evacuation or large volumes of important backfill. (Humes can advise further)

- Farm use equates to a vehicle load of approximately 12 tonnes per axle
- Highway use equates to a vehicle load of approximately 24 tonnes per axle

Material selection

Use aluminium where:

- Water and soil pH between 4 and 9
- Water conductivity is less than 200mS/m (millisiemens/metre)
- Sea water/tidal influence
- Stony abrasive soils.

Use galvanized steel where:

- Water and soil pH between 5 and 9
- Water conductivity is less than 100mS/m (millisiemens/metre).

Manufacturing standards

Manufactured to US highway culvert standards, and to NZS 4405:1986.

