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

Easy to install, resistant to damage and durable enough to last for years.

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

Helcor (galvinised 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.

For more information ask Humes Pipeline Systems for the Humes Helcor loan video.

Easy

- Weighs only 8% the weight of comparable size concrete pipes.
- Is easy to transport.
- Little or no lifting equipment is required.
- Long lengths minimize jointing.
- Ideal for use in shifting ground.

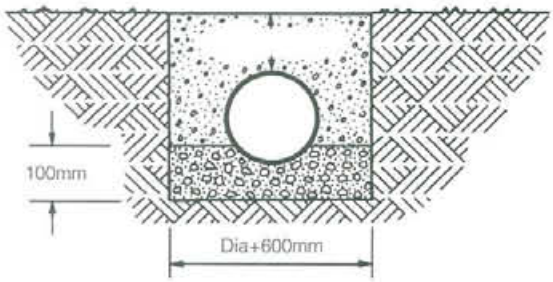
Strong

- 1.6 gauge aluminium or galvanized steel will support a 40 tonne vehicle if properly installed.
- Manufactured by to US highway culvert standards, and to NZS 4405:1986.

Long

- 4 and 6 metre lengths are standard for all diameters.
- Up to 12 metre lengths available on request.

HUMES



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

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. 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
- Peat soils
- Stony abrasive soils

Use galvanized steel where:

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

Pipe Sizes and Installation

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

Diameters up to 3.6 metres and lengths up to 12 metres available on request. Contract Humes Pipeline Systems for further details.
Note that Humes Aluflo maximum diameter = 2400m.
Note that not all configurations are available ex stock for current availability contact your nearest Humes Sales Centre.

Disclaimer: "Buyers and users must make their own assessment of our products under their own conditions for their own use. All queries regarding product suitability of purpose or installation should be directed to the nearest Humes office for advice and assistance". Availability of product may differ slightly from that available in your area

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