



# Helcor and Aluflo



Light weight, strong,  
cost-effective large diameter  
culvert option

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Humes corrugated culvert pipes are available in both galvanized steel (Helcor) and aluminium (Aluflo) to suit a wide range of culvert applications. Helcor and Aluflo are a competitive option compared to alternative culvert products when comparing price, weight and installation of the product.

The light weight advantage of Helcor and Aluflo means that they are easy to transport and little or no lifting equipment is required. Both products are supplied in 4 or 6 metre lengths which minimise jointing requirements. Helcor and Aluflo are particularly price competitive in the larger diameter culverts compared to other material type alternatives due benefits associated with long length and light weight.

Helcor and Aluflo have excellent strength characteristics and can be used in applications ranging from very small to very large cover depths. The corrugated profile of both Helcor and Aluflo provide stability in shifting ground conditions.

## Helcor & Aluflo Range

Nominal Diameter $\phi$ mm	Helcor		Aluflo		Minimum Cover
	4m Length Mass (kg)	6m Length Mass (kg)	4m Length Mass (kg)	6m Length Mass (kg)	Farm Use (mm)
300	60	90	19	28	300
375	72	108	23	35	300
450	88	132	28	41	300
600	116	174	36	54	300
750	144	216	45	67	300
900	172	258	54	80	300
1050	200	300	63	94	300
1200	228	342	79	119	300

### Notes

- Larger diameters are available on request (Helcor up to  $\phi$ 3600mm and Aluflo up to  $\phi$ 2400mm)
- The minimum cover for  $\phi$ 1350mm –  $\phi$ 3600mm pipes for farm use is 600mm
- The approximate masses in the above table are for 1.6mm wall thickness
- Farm use equates to a vehicle load of approximately 12 tonne per axle
- Lengths up to 12 metres can be custom ordered

## Environmental Guidelines

Characteristics	Helcor	Aluflo
Water & Soil pH Levels	5-9	4-9
Water & Soil Conductivity (millisiemens/metre)	>100 mS/m	>200 mS/m
Copper (parts per million)	N/A	>1ppm
Salt Water/Tidal Applications	Do not use	Can use

## Applications

- Farm culverts
- Forestry culverts
- Roading culverts

## Standards

Manufacturing – NZS 4405 and AASHTO M-197 (USA)  
 Design – NZS 4406 and AASHTO M-196 (USA)

For further information or advice freephone  
 0800 502 112 or visit [www.humes.co.nz](http://www.humes.co.nz)

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 2008. Printed 10/08.

