

# Hynds Mountable and Traversable Wingwalls

Technical Guide D8.3

NZTA accepted design for improved road safety, Hynds Mountable and Traversable Wingwalls are strong, safe and simple to install.



05/04/20 | DRAINAGE | D8.3 HYNDS MOUNTABLE AND TRAVERSABLE WINGWALLS

## Applications

For use on State and Local Highways

## Product Attributes

Manufactured in 40 MPa concrete for high strength and durability

One piece construction for easy installation

Pre-formed hole or soft spot in headwall for simple assembly with the culvert

Suitable for 225 – 1050 mm Ø pipe culverts

Includes galvanised steel grate

A marine grade wingwall system can be produced on request

## Approvals/Standards

NZTA design acceptance

Galvanised grates proof load tested to 120 kN wheel load

## Quality

ISO 9001:2008 Quality Management Standard

*We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.*

**HYNDS**  
PIPE SYSTEMS

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**Installation**

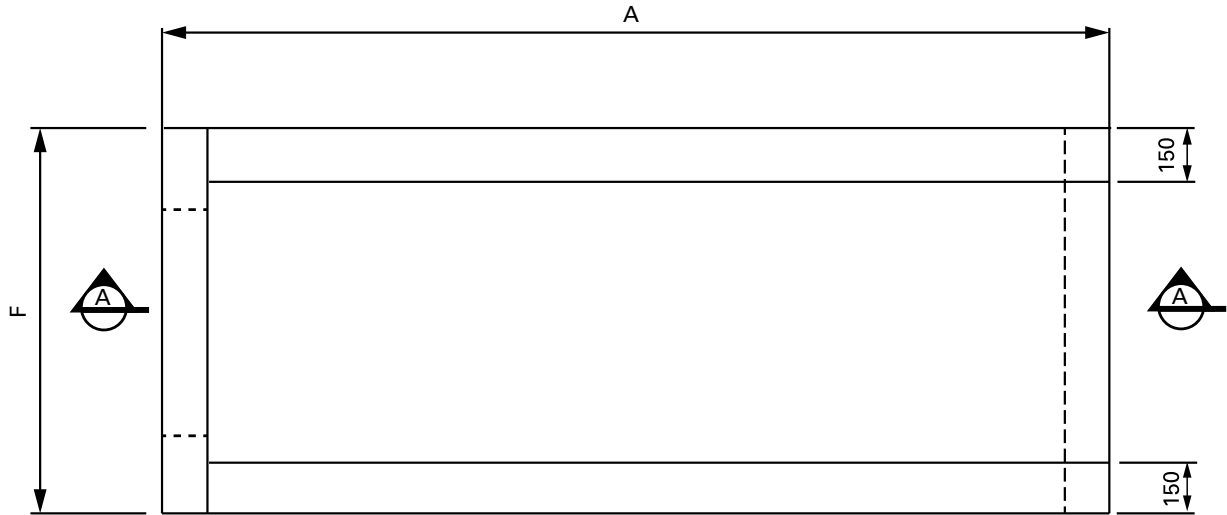
- Mountable wingwalls (1:6) are for installation on culverts running parallel to the carriageway.
- Traversable wingwalls (1:4) are for installation on culverts that cross the highway.
- Wingwalls are fitted with strategically placed lifting anchors cast into the concrete, to allow for safe off-loading and straight forward economical installation by a contractor.
- Spreader beams are required for safe handling.
- Wingwalls should be installed on compacted level hardfill with a suitable trench cut to accept the wingwall toe.
- A softspot in the headwall is provided on the WW0450 models to accept pipes 225 - 450mm.
- In size 600 - 1050 a preformed hole is provided in the headwall to accept the end of the pipe.
- The contractor finishes installation by filling the gap between the headwall and the pipe with epoxy mortar.



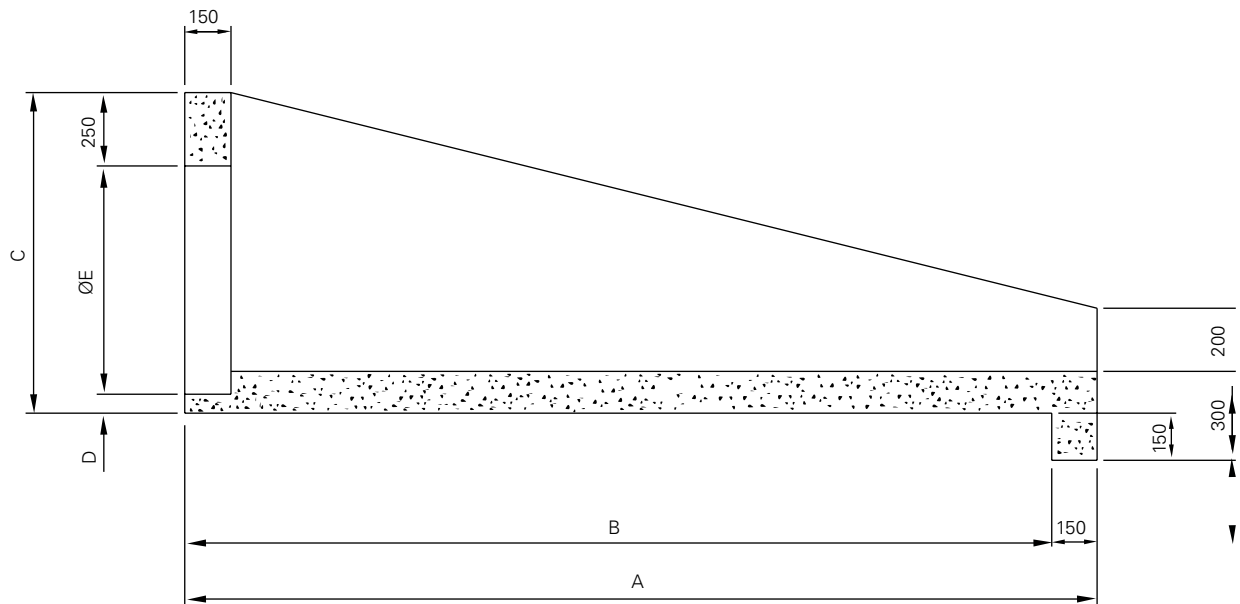
**TABLE 1 Product Range**

Product Code	Dimensions (mm)						Mass (kg)
	A	B	C	D	ØE	F	
WW0450TRAVS.4	2451	2301	922	93	570	890	1980
WW0450MOUNT.6	3600	3450	922	93	570	890	2780
WW0600TRAVS.4	3070	2920	1080	80	750	1200	3081
WW0600MOUNT.6	4530	4380	1080	80	750	1200	4419
WW0750TRAVS.4	3710	3560	1240	75	915	1365	4230
WW0750MOUNT.6	5490	5340	1240	75	915	1365	6057
WW0900TRAVS.4	4340	4190	1400	60	1090	1540	5053
WW0900MOUNT.6	6450	6300	1400	60	1090	1540	7985
WW1050TRAVS.4	5030	4880	1620	100	1270	1720	7112

## Wingwall dimensions



PLAN  
Scale: NTS



SECTION 'A-A'  
Scale: NTS

### Also refer to:

D8.4 KiwiSafer™ Culvert Ends

**Branches Nationwide** *Support Office & Technical Services 09 274 0316*

**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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**HYNDS**  
PIPE SYSTEMS

The logo for Hynds Pipe Systems features the word "HYNDS" in a large, bold, white sans-serif font. Below it, the words "PIPE SYSTEMS" are written in a smaller, white sans-serif font. A yellow curved line, resembling a stylized pipe or a smile, is positioned at the bottom of the logo.