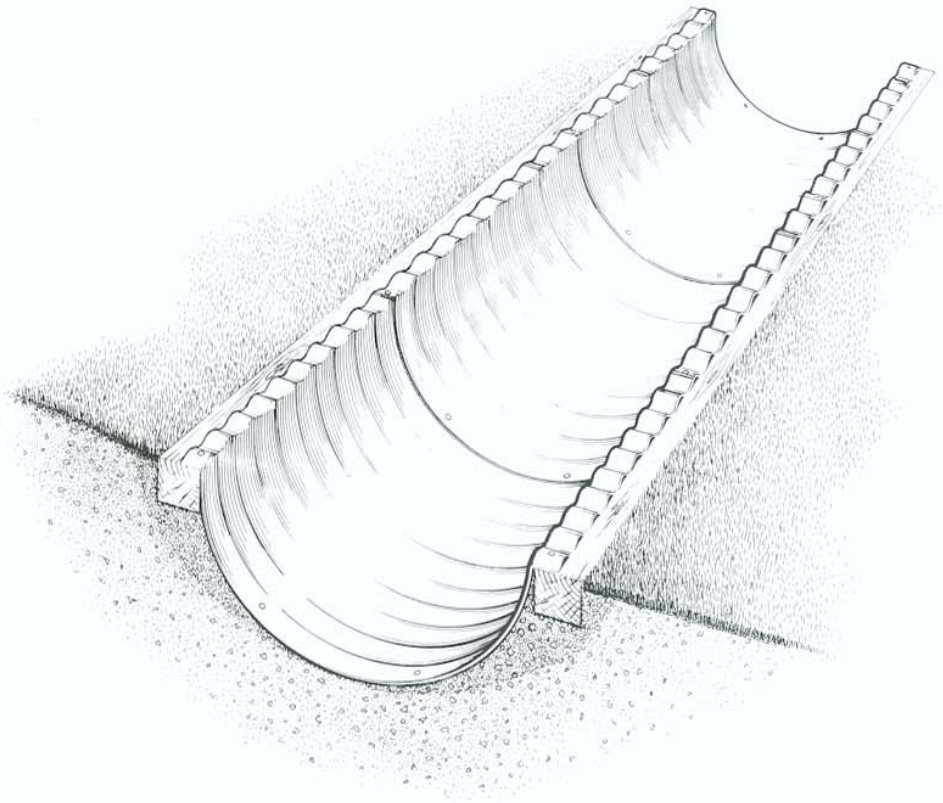


SEMI-CIRCULAR DITCH LINERS

Typical Flanged Ditch Liner.



INTRODUCTION: Armtec, formerly Armco Westeel, takes a "hands on" problem-solving approach that has made us leaders in heavy construction for more than ninety years.

Armtec ditch liners are constructed using corrugated, galvanized steel sections which are bolted together on-site to form a continuous run.

- These liners provide a low-cost means of:
- Preventing soil erosion and protecting road shoulders
 - Maintaining flow alignment
 - Improving hydraulic characteristics and facilitating low-level flow.
 - Preventing overgrowth of weeds and algae.

CONSTRUCTION: These durable, galvanized steel sections come in various lengths, depending on the corrugation chosen.

The most commonly-used corrugation is 68 x 13 mm, in spans of 300 to 1600 mm with thicknesses ranging from 1.6 to 2.8 mm. Lapping of adjoining sections yields an effective length multiple of 610 mm.

While the corrugation profile has been around for many years, Armtec recently introduced 125 x 25 mm corrugated sheets. These produce spans of 1000 to 2800 mm with thicknesses ranging from 1.6 to 3.5 mm. Lapping of adjoining sections yields an effective length multiple of 625 mm.

Larger spans are also available using the additional stability provided by a 152 x 51 mm corrugation.

Sections using the 68 x 13 mm corrugation can be provided with or without corrugated flanges.



Flanged ditch liner being installed on timber runners.



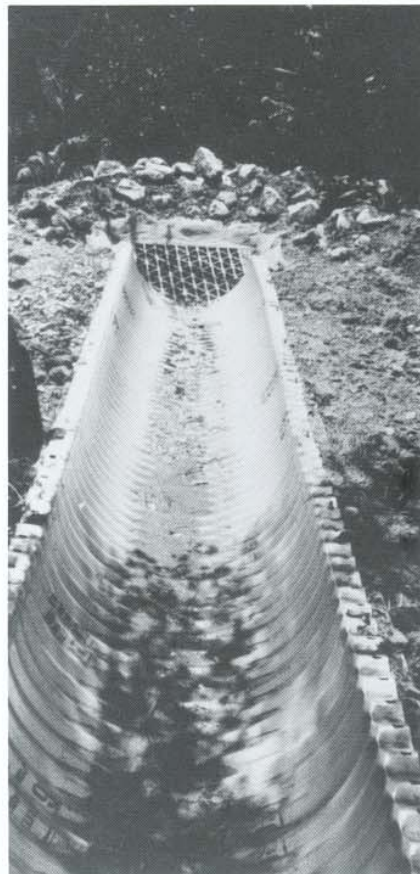
INSTALLATION: These light-weight sections can be easily positioned without the use of heavy lifting equipment. Sections should be placed in a pre-formed bed, overlapping them in the direction of flow, and anchoring them at regular intervals

The edges should be supported. Flanged sections are usually bolted to timber runners; unflanged sections are bolted to structural members such as steel angles. An alternative, for both flanged and unflanged sections, is to use reinforced concrete curbs along the edges.

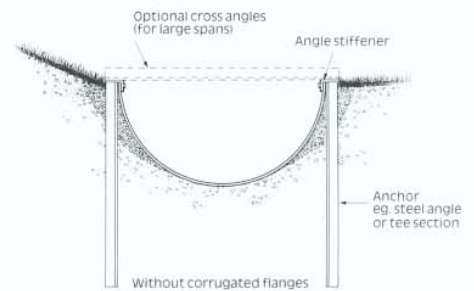
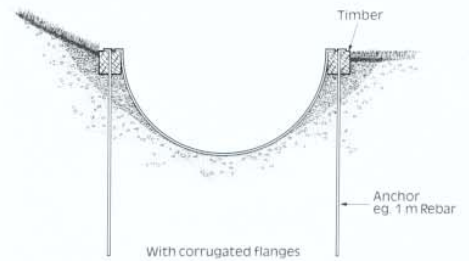
The backfill adjacent to the liner should be rodded and tamped to eliminate voids.

On steep slopes, the area alongside the liner should be protected with grass or some other covering. Depending on the installation, it may also be advisable to incorporate cutoff walls at the ends to prevent under cutting.

Corrugation mm	Span mm	Thickness mm
68 x 13	300 - 600	1.6
	800 - 900	2.0
	1000 - 1600	2.8
125 x 25	1000 - 1600	1.6
	1700 - 2000	2.0
	2100 - 2400	2.8
	2500 - 2800	3.5
	152 x 51	3000 +



Ditch liner with steel angle side stiffeners.



Outfill ditch liner using the 152 mm x 51 mm corrugation (available in 1800 mm spans and larger).

MAJOR PRODUCTS

- Bin Wall® retaining walls
- Hel-Cor® corrugated steel pipe
- Multi-Plate® corrugated steel pipe
- Super Span® corrugated steel bridges
- Guardrail
- Grating
- Sheeting
- Slotted Drain
- Solid Waste Transfer Units
- Tunnel Liner
- Water Control Gates
- Geotextiles
- Geoweb
- Geogrid
- Erosion Control Blankets

DL/LP/30C/0604/R



Head Office: 15 Campbell Road, P.O. Box 3000, Guelph, ON N1H 6P2
www.armtec.com

Sales Offices: Nanaimo, Prince George, Langley, Edmonton, Calgary, Lethbridge, Saskatoon, Winnipeg, Thunder Bay, Sudbury, Guelph, Toronto, Peterborough, Chesterville, Forest, Orangeville, Comber, Montreal, Quebec City, St. Clet, Sackville, New Glasgow, Bloomfield, Bishop's Falls and St. John's.

AN ALL-CANADIAN COMPANY