

RE: Review of Armtec Tunnel Liner Plate

PRODUCT

The Armtec Tunnel Liner Plate is a corrugated steel lining system manufactured and distributed by Armtec Limited of Langley, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Armtec has been manufacturing liner plate for more than 50 years which has been used on a variety of applications such as horizontal/vertical shafts and existing culverts. Armtec Tunnel Liner Plate has been previously used in Alberta. Web link for this product: http://www.big-o.com/catalogue/Bridging%20and%20Tunnelling/Tunnel%20Liner_FIN.pdf

Armtec Tunnel Liner Plate is available in a variety of shapes and sizes, from 1.3 meter diameter to 8 meter diameter. The tunnel liners steel plate two-flange design provides optimum stiffness.

DESCRIPTION

Armtec Tunnel Liner Plate is a curved corrugated steel two-flange sectional lining system designed for use primarily in soft-ground tunneling. Tunnel liner plates are available in a galvanized or black steel finish.

The tunnel liner plate is manufactured in plate thicknesses of 3mm, 4mm, 5mm and 6mm.

POTENTIAL USAGE

Armtec Tunnel Liner Plate is used for:

- Soft ground tunneling
- Relining existing structures
- Vertical shaft liners
- Caissons
- Rockfall protection (mining applications)

STANDARDS

CSA G164 Galvanizing

AASHTO Standard Specification for Highway Bridges, Division 1, Section 16.

ALBERTA INFRASTRUCTURE and TRANSPORTATION COMMENTS

ADDITIONAL TECHNICAL REQUIREMENTS

Suppliers of culvert and bridge structures should be familiar with the design and fabrication processes contained within the design criteria and codes that are applicable to their product. They should also ensure that all technical information, design parameters, materials data, etc for their product that are necessary to meet the design requirements of the manuals are available to the hydrotechnical, structural, fabrication and construction engineers upon request.

EXPERIENCE

Alberta Infrastructure and Transportation has used this product since 1971.

RECOMMENDATIONS

Armtec Tunnel Liner Plate be listed as a Proven Product under Alberta Infrastructure and Transportation Products List, Culverts – Tunnel Liner Plate – Proprietary, based on the information provided.

TRIAL PROJECTS

Highway 28, Smoke Lake – installed in 1971

Bridge File: 74300

Bridge File: 8250

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow
Tom Loo
Abdul Waheed