

Product ID: 8090-7-4

Initiation Date: November 2013 Revision Date: November 7, 2024 Expiry Date: February 2026

Product Evaluation

RE: Review of Sloped Grating for Culvert Ends

PRODUCT

The Sloped Grating is manufactured and distributed by Bet-Can Industrial Limited Surface Flow Control located in Sturgeon County, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Sloped Grating is a culvert protection accessory designed to stop beavers and other animals from plugging or damaging culverts while promoting free flow of water with minimal environmental impact. Product web link: http://www.surfaceflowcontrol.com/index.html

DESCRIPTION

The spacing of the grate slats is 3" O.C. welded on vertical end for increased durability and strength; the grates are hot dip galvanized.

POTENTIAL USAGE

Sloped Grating is designed to fit over corrugated steel pipe beveled or straight culvert ends

STANDARDS

None provided

TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Transportation and Economic Corridors has trialed this product. Transportation and Economic Corridors typically uses corrugated steel standard sloped end sections (bevelled ends at 3 to 4:1) for the majority of the non-bridge size culverts. The corrugated steel pipe industry has a standard steel section for culvert end treatment; this type of end treatment has not been used often due to economics. For plastic culverts the ends are bevelled (3 to 4:1) to form the end treatment. Concrete culverts use a flared end section for their end treatment. Bridge size culverts typically have concrete headwall and wings for their end treatment and most likely require guardrail protection on the roadway shoulder due to safety requirements for the travelling public.

APPLICABLE STANDARDS

The Transportation and Economic Corridors Specification for culvert materials is as follows:

Standard Specification for Highway Construction 2.4 Culverts and Specification for Bridge Construction Section 18, Supply and Construction of CSP and SPCSP Structures

RECOMMENDATIONS

Sloped Grating be listed as a Trial Product on the Transportation and Economic Corridors Products List, Culverts – Beaver Control – Proprietary based on the information provided. Final acceptance as a proven product will be based on field performance. **Note:** "require **DFO approval prior to use**"

Classification: Public



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TRIAL PROJECTS

BF 86337 – Hwy 35:04 C1 KM33.140: Installed January 18, 2019 (from W.O. 064-2157), Pipe size 1524 mm Smooth walled steel pipe, Number of units – two (one on each end)

Hwy 986:02 C1 KM7.713: Installed – approximately November 16, 2018 (date on E.W.O. #7 for CON 0011375), Pipe Size 800 mm (note: one is a smooth wall and the other is CSP Number of units – two (NOTE: 600 mm size)

Rishi Adhikari

cc New Products Evaluation Group – Kristen Tappenden Junaid Iqbal / Hal Cook

Classification: Public