

COLORADO DEPARTMENT OF TRANSPORTATION
PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No.
5428-26 CDOT USE ONLY

Product Evaluation Coordinator Colorado Department of Transportation 4670 North Holly Street, Unit A Denver, Colorado 80216	Material Code 707.12.01.00 CDOT Use Only
	Material Code description full name Pipe, Repair, Lining CDOT Use Only

PART 1

Product name: Warrior ThermoForm PVC Liner	Product category: Drainage/Culvert Pipe/Culvert Lining Repair
Product Representative (name & address): Attn: Robin Hershman Warrior USA LLC 1400 Commerce Parkway Lancaster, NY 14086 Phone: (716) 550-9277 E-mail: robinhershman@warriornodig.com	Manufacturer (name & address): Attn: Robin Hershman Warrior USA LLC. 1400 Commerce Parkway Lancaster, NY 14086 Phone: (205) 854-4330 E-mail: robinhershman@warriornodig.com
Web-site address: https://thermoformliner.com/	Web-site address: https://thermoformliner.com/

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
PVC Based structural liner available in diameters 4" to 48" for use in trenchless rehabilitation of sanitary sewer, storm sewer and culvert pipe. Thermoform is manufactured in accordance with ASTM F1871-20. Extruded and coiled on to large reels the product is heated and conditioned on the job site then pulled into and existing host pipe by mechanical means. Steam plugs are used at each end to seal the liner, steam is introduced to warm the liner allowing it to unfold and expand. Compressor air is then introduced to fully expand and cool the liner. Thermoform PVC Liners are ASTM 1871-20, Cell Classification 32141 with Tensile Strength of 4500psi, Tensile Modulus of 360,000psi, Flexural Strength of 7500psi and Flexural Modulus of 360,000 psi.

Restrictions, (installation and/or use):
Gravity applications only, Thermoform is not designed for pressure or NSF61 applications

Use of the product. (be specific to CDOT highway activities only):
Rehabilitation of partially or fully deteriorated sanitary/storm sewers or highway culvert pipes

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Cost effective alternative to open cut pipe replacement, improved flow, no need to grout annular space as with slip line products. Design life of 50 years, chemical resistance of PVC, Styrene Free installation process-No VOC's released during our installation process.

- Specifications:** (listing those applicable is required)
- CDOT : 707.12
 - ASTM : D256, D638, D790, D2122, D2152, D2412, D2444, F1057, 1871-20
 - AASHTO:
 - FHWA :
 - other :

Certificate of Compliance (COC) provided Certificate of Verification (COV) provided for select categories ONLY

Product Testing: (National/independent laboratories or universities with Report Date.) **Certified Test Report** (CTR) provided to validate all claims.

- NTPEP-AASHTO:
- FHWA :
- other : **PSI Labs Testing /Forensics/Consulting (April 8, 2019)**
- other :
- other :

State DOT Approvals, (current documentation required): **AL, UT, VA TN** **Expiration Date** **5 Years** **04-22-2026**

Sample submitted: yes no n/a Safety Data Sheets (SDS): yes no n/a

Alternate Product Category:

CDOT Product RESTRICTIONS by CDOT Evaluator:
No restrictions per CDOT Evaluator

CDOT use Only

Evaluators Signature:
Digitally signed by Michael Tanner
Date: 2026.02.20 11:57:30-0700
Michael Tanner