COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2562-11

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 707.12.01.00

FOR INTERNAL CDOT USE

Material code description full name: Pipe, Repair, Lining

PART 1

Product name: Link-Pipe PVC™

Product category: Drainage\Culvert Pipe\Culvert Lining [Repair]

Product representative (name & address):
Attn: Lembit Maimets
Link-Pipe Inc.
2-27 West Beaver Creek Road, Richmond Hill, Ontario
L4B 1M8, Canada
Phone: (905) 886-0335 FAX: (905) 886-7323

Manufacturer (name & address):
Attn: Lembit Maimets
Link-Pipe Inc.
2-27 West Beaver Creek Road, Richmond Hill, Ontario
L4B 1M8, Canada
Phone: (905) 886-0335 FAX: (905) 886-7323

Web-site address: www.linkpipe.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

Link-Pipe PVC™ is for structural repair and sealing infiltration in man accessible sewer pipes, collector mains and culverts without stopping flow. The repair system can be used for large diameter round, tear-drop, horse-shoe and oval pipes, it can also be installed in a continuous formation.
Standard sleeves are designed for minimum loading conditions of 10 psi (66 kPa), externally applied hydraulic pressure with Factor of Safety of 2.0. Custom designed sleeves can be ordered for higher loading condition.
The sleeve can repair all type of pipes with host pipe inside diameter from 39" to 124" and laying length is 16" and 24".
Polyurethane grout (G-200 and G-101) to be used during installation for repair.
PVC material conforms to "PVC 12454-B".

Restrictions, (installation and/or use):

Locations with severe joint separation/offset or where the top of the culvert is buckling, soil consolidation may be needed to make the pipe safe for repair.

Use of the product, (be specific to CDOT highway activities only):

Man entry repair of longitudinal & circumferential cracks; holes; multiple cracks; broken pipes; lateral closures.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

Link-Pipe PVC™ carries 10-Years Limited Replacement Warranty with 100 years service life.
Installation time is 30 minutes average.
Can be installed under live condition, no by-pass is needed, underwater repair can be done by divers.
Manufacturing follows ISO 9001-2008 certified Quality Control procedures.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☒ ASTM : PVC: D 638; D 695; D 790; D 570;
- ☐ AASHTO :
- ☐ FHWA :
- ☒ other : Grout: ASTM D 1662; D 2127; C 273; D 1623; D 1638; D 2369B; D 2196A; D 3574; D 2196; D 93; D 1042

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☐ other :
- ☒ other : WRc (May 18, 2001)

State DOT Approvals, (current documentation required):

Sample submitted: ☒ yes ☐ no ☐ n/a

Materials Safety Data Sheets (MSDS): ☒ yes ☐ no ☐ n/a

Notes/Additional Comments

Caltrans (California Department of Transportation) and FHWA (Federal Highway Administration) specified the Link-Pipe PVC™ for the internal culvert repair.