COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3438-12

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

Material code: 712.13.02.00

FOR INTERNAL CDOT USE

Material code description full name: Pipe, Plastic, Corrugated

PART 1

Product name: Eagle Corr PE

Product category: Drainage\Culvert Pipe\Open-Cut/Direct-Bury

Product representative (name & address):
Attn: Kyle Yamamoto
JM Eagle
5200 W. Century Blvd.
Los Angeles, CA 90045
Phone: (310) 693-8200 FAX: (973) 422-4883

Manufacturer (name & address):
Attn: Kyle Yamamoto
JM Eagle
5200 W. Century Blvd.
Los Angeles, CA 90045
Phone: (310) 693-8200 FAX: (973) 422-4883

Web-site address: www.jmeagle.com

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

Eagle Corr PE is corrugated polyethylene available in 4" to 60" diameters and is suitable for use in gravity flow drainage applications. The 4" through 10" pipe meet AASHTO M252 designation (certified through third party testing). The 12" through 60" meet AASHTO M294 designation (also through third party testing). This product features a corrugated exterior for structural strength and smooth interior for maximum hydraulic efficiency with a manning n value between 0.010 and 0.012. Its superior strength-to-weight ratio and flexible conduit design mean it will support H-25 live loads with a minimum cover of 1 foot, while allowing for much greater cover heights, as outlined in our burial depth technical bulletin. The pipe is highly resistant to the corrosive effects of soils, chemicals, or effluents with a very wide pH range, 1.5-14. The pipe is also very resistant to abrasion and maintains its hydraulic efficiency much longer than competing products. Eagle Corr PE features a heavy duty integral bell and dual gasket spigot for an ASTM D3212 tested, 10.8 psi joint. The water tight bell and spigot system do not require a reinforcing band around the bell to maintain a watertight connection.

Products may be accepted equally from the Wharton Texas and the Stockton California facilities as long as annual NTPEP COCs are provided to CDOT's PEC.

Restrictions, (installation and/or use):
Cannot be used in pressure pipe applications. Requires minimum burial depths of 1'.

Use of the product, (be specific to CDOT highway activities only):
The pipe is typically used on DOT/capital improvement: cross drains, edge drains, and underdrains.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Provides a cheaper, easier to install product than RCP (reinforced concrete pipe) or CMP (corrugated metal pipe). Eagle Corr PE will last longer against corrosion and abrasion than RCP or CMP. Also, while being lighter than RCP, with an integral bell and spigot, the pipe negates the need for bell holes. It will not corrode like CMP in "hot" soils or while being exposed to chemicals. This product is cheaper, lighter, easier to install, and will last longer than other drainage pipes on the market.

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

- [x] CDOT : Standard Specifications, Section 712
- [x] ASTM : D 3350, F 2306, F 477, D 2412, D 3212, D 2321
- [x] AASHTO : M 252, M 294
- [ ] FHWA :
- [ ] other :

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

- [x] NTPEP-AASHTO : HDPE Audit COC: Wharton TX, Stockton CA (2013)
- [ ] FHWA :
- [x] other : TRI (June - September 2009)
- [x] other : Advanced Pipe Services (August - September 2009)

State DOT Approvals, (current documentation required):
California

Sample submitted: [ ] yes [x] no [ ] n/a

Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments
Can provide samples as required. Please let Matt Olsson know the diameters/lengths of pipe you require and he will arrange delivery to the appropriate place/person.