

## Notice to Manufacturer's Handbook

### INTRODUCTION

The Notice to Manufacturers is the primary document to guide the Manufacturers who wish to have their product placed on the Colorado Department of Transportation (CDOT) Approved Products List (APL).

<https://www.codot.gov/business/apl/manufacturers.html>

These submittal instructions are not suggestions but requirements which must to be followed by each applicable manufacturer or their representative.

Questions you should ask yourself as you read through this document:

1. Does the product that I want to submit reside on CDOT's APL?
2. What documentation is required for an initial product submittal?
3. What documentation is required annually, if not more frequent?
4. What is CDOT's re-submittal / re-evaluation cycle and what documentation is required? (Refer to Section 5.19 in the handbook).

Failure to comply with these instructions will either slow the review and evaluation process down or terminate it immediately. Due to the lack of resources by CDOT any product submittal deemed to be significantly outside of a reasonable effort may be discarded with no attempt to communicate this to the manufacturer. Therefore submitting documents that provide nothing more than advertising or marketing documents will be discarded. Submitting a handwritten CDOT Form 595 will be discarded. Excluding the contact information for the individual responsible for the submittal will prevent the process from beginning. However, if you read this entire document and make a significant effort to comply with our needs and provide quality then we will make every effort to assist you through the process.

By working together manufacturers and CDOT can provide the best quality products to the people of Colorado. CDOT created an Approved Products List (APL) to assist contractors, project personnel, and manufacturers with a current list of products that meet or exceed current CDOT quality standards.





1. SCOPE

1.1 The majority of materials submitted for inclusion on CDOT construction projects will fall within one of four methods of product acceptance. These methods of acceptance are:

- **Pre-Inspection** - [(PI) CDOT inspected at the manufacturer's facility.]
- **Certified Test Report** - [CTR submitted with every product delivered to the project.]
- **Certificate of Compliance** - [COC submitted with every product delivered to the project.]
- **Pre-Approved** - [(per APL) Evaluated for placement on CDOT's Approved Products List.]
- **BUY America Requirements** - CDOT Field Materials Manual.  
In accordance with Subsection 106.11 of the CDOT Standard Specifications as referenced in 23 CFR Part 635.410. BUY AMERICA requirements. All documents must be submitted with Products using Steel and Iron.

**Note 1:** CDOT Field Materials Manual, Section, Special Notice to Contractors. All manufacturing processes are defined as "processes required to change the raw ore or scrap metal into the finished, in-place steel or iron product". Manufacturing begins with the initial melting and mixing, and continues through the coating stage. Any process which modified the chemical content, the physical size or shape, or the final finish is considered a manufacturing process.

**Note 2:** As per the CDOT Standards and Specifications, Section, 106.11(a), Steel and Iron. All manufacturing processes, including the application of a coating, for all steel and iron products permanently incorporated in the work shall have occurred in the United States of America.

**BUY AMERICA REQUIREMENTS:** are for the use of domestic steel and iron on Federally funded Construction Projects.

<https://www.codot.gov/business/designsupport/materials-and-geotechnical/manuals>

<https://www.codot.gov/business/designsupport/cdot-construction-specifications>

<https://www.codot.gov/business/designsupport/buy-america-requirements>





1.2 When a Manufacturer requests that their product(s) be Pre-Approved and subsequently placed onto the CDOT Approved Products List (APL) they commit to the perpetual maintenance of their submitted product on this web-site with current and valid information. It is incumbent upon your firm to contact CDOT's Product Evaluation Coordinator (PEC) in writing for any of the following reasons:

- The product has been changed or altered in any fashion,
- A new Technical Data Sheet (TDS) / Product Literature has been issued,
- A new CTR has been generated on the product,
- A new Safety Data Sheet (SDS) has been issued to comply with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) which has replaced the previous Material Safety Data Sheet (MSDS).
- Anything changes with regard to the Manufacturer or the Product Representative shown on the APL (such as name, address, phone number, e-mail address, web-site address).

An annual review by yourself and subsequent communication with the CDOT Product Evaluation Coordinator (PEC) indicates a genuine interest in assisting CDOT with the accuracy of this web-site. Conversely, failure to maintain contact may result in removal of either a singular product or the manufacturer with all associated products. An annual communication must be transmitted every January to the CDOT PEC to verify that the information previously provided is still accurate. Always include the CDOT APL Reference Number in communication.

1.3 Colorado's unique geography and climate may preclude many quality products utilized elsewhere from being accepted for use here. If you are contemplating submitting your product for inclusion onto our APL, please consider the effects of our elevation, freeze / thaw, higher UV, heating your product during cold weather for incorporation at the job site, low precipitation, low ambient humidity, or other unique / detrimental elements found in Colorado.

1.4 CDOT will only consider products used by CDOT. A product used only by Colorado local agencies is not a reason to be considered. Submitting products that are either of no benefit to CDOT or will not be sold within Colorado wastes both yours and our resources.



## CDOT VOLATILE ORGANIC COMPOUND REQUIREMENTS:

CDOT has recently adopted the change to the allowable Volatile Organic Compound (VOC) requirements for the following products by the Colorado Department of Public Health and Environment as per 5 CCR 1001-25.

### CDOT Volatile Organic Compound (VOC) Limits as per the:

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT Air Quality Control Commission

REGULATION NUMBER 21

Control of Volatile Organic Compounds from Consumer Products and Architectural and Industrial Maintenance Coatings

5 CCR 1001-25

#### VOC Content Limits

Coating Category	CDOT (g/L)
Concrete curing and sealing compounds Concrete masonry sealer	100
Concrete curing compounds	350
Concrete surface retarders	780
Traffic marking coatings	100
Waterproofing Membranes	250
Reactive Penetrating Sealer	350
Graffiti Remover (Aerosol)	50
Graffiti Remover (Non-aerosol)	30

## 2. PRE-APPROVED METHOD OF ACCEPTANCE

2.1 The Categories, Sub-Categories, and Base Categories listed below will duplicate the information presented in the Special Notice to Contractors within the Current CDOT Field Materials Manual. If the product that you wish to submit is not referenced within this categorization then it is more than likely part of one of the other methods of acceptance. The Special Notice to Contractors, referenced within this web-site as Notice to Contractors, may provide additional guidance. If you have any doubt how your product should be presented, you may also contact the Product Evaluation Coordinator (PEC).

APL user guidance:

Locate products on the website at: <https://www.codot.gov/business/apl> then go to APL search, and then use the referenced Category, the Manufacturer's name, or the Product name.

A "category / Sub-Category / Base-Category" search requires that the drop-down menus be used.

### Approved Products List Search Screen

Choose a field to search by:

- Category
- Manufacturer Name
- Product Name
- Product Number

Next >>

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### Approved Products List Search Screen

#### Search by Category

Selected Category: **Concrete**

• Select a **Sub Category** from the List/Menu

- To select a Basecategory, 1<sup>st</sup> You must select a Subcategory
- To select all Sub Categories, Click the Search button.

Sub-category:

(choose a subcategory or click search)

- All Subcategories
- Admixture
- Cement
- Curing
- Experimental Features [Concrete]
- Fiber
- Grout
- Pozzolan
- Repair/Patching

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### Approved Products List Search Screen

#### Search by Category

Instructions:

- Select a Category from the List/Menu
  - To select a Subcategory, 1<sup>st</sup> you must select a Category
  - To select a Basecategory, 1<sup>st</sup> You must select a Subcategory
  - To select all Categories, Click the Search button.

Category:

(choose a category or click search)

- Adhesive
- Asphalt
- Bridge Structures
- Concrete
- Drainage
- Environmental
- Erosion Control
- Expired Specification
- Maintenance
- Paint / Coating
- Pedestrian Safety
- Right-of-Way Structure
- Roadway Safety
- Sealant (Joint and Crack)
- Sediment / Pollution Control
- Soil / Geotechnical
- Steel
- Traffic Control
- Waterproofing

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## Colorado Approved List Categories

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Adhesive/Bridge	Anchoring, Lateral	Epoxy		Project by Project
		Acrylic		Project by Project
		Cementous		Project by Project
		Polyester		Project by Project
Adhesive/Bridge	Anchoring, Overhead	N/A		Project by Project
Adhesive/Bridge	Bonding	Epoxy		Project by Project

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Asphalt	Asphalt Release Agent	Truck Beds Only	3	NTPEP / TX DOT
		Truck & Equipment	3	NTPEP / TX DOT
Asphalt	Binder	PG 58-28	2	CDOT Table 702-1
		PG 58-34	2	CDOT Table 702-1
		PG 64-22	2	CDOT Table 702-1
		PG 64-28	2	CDOT Table 702-1
		PG 70-28	2	CDOT Table 702-1
		PG 76-28	2	CDOT Table 702-1
Asphalt	Emulsion	SS-1h	2	CDOT Table 702-2
		CSS-1h	2	CDOT Table 702-2
		CRS-2	2	CDOT Table 702-3
		CRS-2P	2	CDOT Table 702-3
		CRS-2R	2	CDOT Table 702-3
		CQS-1h	2	CDOT Table 702-4
		HFMS-2s	2	AASHTO M 140, Table 1
		HFMS-2P	2	CDOT Table 702-3
		HFMS-2sP	2	CDOT Table 702-6
Asphalt	Hydrated Lime	ARA-1P	2	CDOT Table 702-9
		N/A	4	AASHTO M 303, Type I



<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Bridge Structures	Geocomposite Drain	N/A	5	AASHTO M 288
Bridge Structures	Thin Bonded Overlay	Epoxy / Non-Epoxy	5	CDOT 519
Bridge Structures	Structural Wrapping Repair	N/A	5	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Concrete	Admixture	Air Entraining	4	AASHTO M 154
		Water-Reducing	4	AASHTO M 194
		Retarding	4	AASHTO M 194
		Accelerating	4	AASHTO M 194
		Water-Reducing & Retarding	4	AASHTO M 194
		Water-Reducing & Accelerating	4	AASHTO M 194
		Water-Reducing, High Range	4	AASHTO M 194
		Water-Reducing, High Range & Retarding	4	AASHTO M 194
		Extended Set Control	4	AASHTO M 194
		Specific Performance	4	ASTM C 494
		(Concrete) Corrosion Inhibitor	8	ASTM C 494/C 1582
		Pigments, Integrally Colored	4	ASTM C 979
		Miscellaneous		
Concrete	Curing Compound	Type 1 [Clear, Wax Based]	3	ASTM C 309
		Type 1 [Clear, Resin Based]	3	ASTM C 309
		Type 2 [White Pigmented, Wax Based]	3	ASTM C 309
		Type 2 [White Pigmented, Resin Based]	3	ASTM C 309
Concrete	Cement	Portland Cement [ASTM C 150]	4	ASTM C 150
		Blended Cement [ASTM C 595]	4	ASTM C 595
		Hydraulic Cement [ASTM C 1157]	4	ASTM C 1157
		Blended Cement [Type IL] [MS]	4	ASTM C595
		Blended Cement [Type IL] [HS]	4	ASTM C1157
		Blended Cement [Type IT] [MS]	4	ASTM C595
		Blended Cement [Type IT] [HS]	4	ASTM C1157
		Slag Cement / Slag Grade 100	4	ASTM C989
		Slag Cement / Slag Grade 120	4	ASTM C989
		Concrete	Pozzolan	Fly Ash, Class C
Fly Ash, Class F	4			ASTM C 618
High Reactivity	4			AASHTO M 321
Silica Fume	4			ASTM C 1240/C 1609
Concrete	Fiber	Macro Fiber	4	ASTM C 1116/D 7508
		Microfiber	4	ASTM C 1116/D 7508

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Concrete	Grout	General Purpose [Non-Shrink]	4	ASTM C 1107
		Post-Tensioned Cable	4	CDOT 618.09
		PCCP Grout	4	ASTM 989
Concrete	Tie Bar Anchorage Repair / Patching	PCCP Tie Bar Epoxy	N/A	Project-by-Project
Concrete		Rapid Set, Horizontal	4	ASTM C 928
		Rapid Set, Vertical & Overhead	4	ASTM C 928
		Bonding Agent	4	ASTM 1059
		Class DR [Pre-Packaged]	4	ASTM C 928 R3 CDOT 412.13
Concrete	Tie Bar Anchoring	PCCP, Grout	4	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Drainage	Culvert Pipe	Culvert Lining [Repair]	5	CDOT 603/712
		Open-Cut/Direct-Bury	5	CDOT 603/712
Drainage	Manholes & Inlets	Manhole Riser	5	CDOT 604/712
		Trench Drain	5	CDOT 604/712
		Plastic Drain	5	CDOT 712.11

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Environmental	Sound Wall	Absorptive	5	Project- by-Project
		Reflective	5	Project-by-Project
Erosion Control	Soil Retention Rolled	SRB [Biodegradable Class 1]	5	CDOT 216.02
		SRB [Photodegradable Class 1]	5	CDOT 216.02
		SRB [Biodegradable Class 2]	5	CDOT 216.02
		SRB [Photodegradable Class 2]	5	CDOT 216.02
Erosion Control	Soil Retention Rolled	TRM [Class 1]	5	CDOT 216.02
		TRM [Class 2]	5	CDOT 216.02
		TRM [Class 3]	5	CDOT 216.02
		TRM [Class 4 / woven]	5	CDOT 216.02
Erosion Control	Soil Retention Rolled	Biodegradable Stakes	5	CDOT 216
Erosion Control	Hydraulic Applied Mulch	Bonded Fiber Matrix	5	CDOT 213
		Spray-On Mulch Blankets [Type 1]	5	CDOT 213
		Spray-On Mulch Blankets [Type 2]	5	CDOT 213
Erosion Control	Ditch Control	Silt Berm	5	CDOT 208.02 e
Erosion Control	Biotic Soil Amendments	Hydraulically Applied [Pre-Packaged]	5	CDOT 212.8
Erosion Control	Herbicide	Selective Pre-emergent Application	4	CDOT 217.02
		Selective Contact Application	4	CDOT 217.02



<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Sediment / Pollution	Construction Inlet Protection	Storm Drain Inlet Protection (Type 1)	5	CDOT 208.02 (m)
		Storm Drain Inlet Protection (Type 2)	5	CDOT 208.02 (m)
		Storm Drain Inlet Protection (Type 3)	5	CDOT 208.02 (m)
Sediment / Pollution	Construction Dewatering	Dewatering Filter Bag	5	CDOT 208.02
Sediment / Pollution	Temporary Slope Drain	Flexible Pipe	5	CDOT 208.02 (d)
		Manufactured Channel Liners	5	CDOT 208.02 (d)

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Sediment / Pollution	Concrete Washout Structure	Prefabricated [Above Ground]	5	CDOT 208.02
Sediment / Pollution	Vehicle Tracking Control	Prefabricated	5	CDOT 208.02 (K)

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Maintenance	Deicing, Liquid	Corrosion Inhibited Magnesium Chloride (Cat. 1)	5	Clear Roads & CDOT MTCE.
Maintenance	Deicing, Granular	Brine Salt (Cat. 8A-R)	5	Clear Roads & CDOT MTCE.
		Wet Salt (Cat. 8B)	5	Clear Roads & CDOT MTCE.
Maintenance	Inhibitor/Enhancer	Corrosion Inhibitor for Sodium Chloride Brine (Cat. A-1)	5	Clear Roads & CDOT MTCE.
		Corrosion Inhibitor for Sodium Chloride Brine (Cat. A-3)	5	Clear Roads & CDOT MTCE.
Maintenance	Alternate Traction Device	Chains	5	4-24-035
		Cable Chains	5	2 CCR 601-14/CRS 42-4-106/WAC 204-24-035
Maintenance	Roadway Patching	Pre-Mixed [Bagged]	5	Maintenance Engineer

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Paint / Coating	Anti-Graffiti	N/A	5	CDOT 708.08
Paint / Coating	Paint: Conc. Corrosion Inhibitor	N/A	5	CDOT 708.08
Paint / Coating	Epoxy Coating Paint: Structural Concrete	N/A	5	CDOT 708.03
Paint / Coating	Coating	N/A	5	CDOT 708.08
Paint / Coating	Structural Steel Paint	N/A	5	CDOT 708.03

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Pedestrian Safety	ADA Truncated Dome	Embedded	5	CDOT M-608-1
		Retrofit	5	CDOT M-608-1
Pedestrian Safety	Joint System	N/A	5	CDOT M-608-1

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Right-of-Way Structure	Mailbox Support System	N/A	5	
Right-of-Way Structure	Utility Enclosure	N/A	5	
Right-of-Way Structure	Fence, Non-Standard Coating	N/A	5	
Right-of-Way Structure	Pole Base Hardware	N/A	5	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Roadway Safety	Cable Barrier	MASH 09 TL-3	3	CDOT 606
		MASH 09 TL-4	3	CDOT 606
Roadway Safety	Guardrail W-Beam	Guardrail End Treatment	3	CDOT 606
		Guardrail End Treatment, Special Appl	3	CDOT 606
		Guardrail Synthetic Block out	5	CDOT 606
Roadway Safety	Crash Cushion	Sand Barrel Array	3	CDOT 614
		Guardrail Median Terminal	3	CDOT 606
		Barrier End Treatment (Terminal)	3	CDOT 606
		Impact Attenuator, Standard, Perm	3	CDOT 614
Roadway Safety	Crash Cushion	Impact Attenuator, Wide, Permanent	3	CDOT 614
		Impact Attenuator, Low Maint., Perm	3	CDOT 614
		Impact Attenuator, Special Appl. Perm	3	CDOT 614
Roadway Safety	Railing	Pedestrian & Bicycle	5	
		Vehicle	5	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Sealant [Joint/Crack]	Hot Poured, Joint / Crack	ASTM D 6690, Type II	2	ASTM D 6690, II
Sealant [Joint/Crack]	Hot Poured, Joint/Crack	ASTM D 6690, Type IV	2	ASTM D 6690, IV
Sealant [Joint/Crack]	[Maintenance Use, Crack Filler]	ASTM D 5078		ASTM D 5078
Sealant [Joint/Crack]	Silicone, Joint	Non-Sag	3	ASTM D 5893, NS
Sealant [Joint/Crack]	Silicone Joint	Self-Leveling	3	ASTM D 5893, SL
Sealant [Joint/Crack]	Pre-Formed Joint Filler	N/A	4	AASHTO M 213
Sealant [Joint/Crack]	Loop Detector Slot	One Component	4	
		Two Component	4	
Sealant [Joint/Crack]	Asphaltic Plug Joint	N/A	2	ASTM D6297
Sealant [Joint/Crack]	Elastomeric Concrete End Dam	N/A	3	CDOT 518

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Sealant [Joint/Crack]	Mastic/Hot Applied	Black for Asphalt	5	ASTM D8260-20 Type I, II, III
Sealant [Joint/Crack]	Mastic/Hot Applied	Grey for Concrete	5	ASTM D8260-20 Type I

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Soil / Geotechnical	Stabilization	Chemical, Liquid	4	CDOT 206.02
Soil / Geotechnical	Void Elimination	Polyurethane Foam, High Density	4	CDOT 206.02
		Deep Injection Grout	4	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Steel	Reinforcing, Non-Standard	N/A	5	COC

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Traffic Control	Portable Changeable Message	Trailer Mount	5	MUTCD 6F.60, 2009
		Vehicle Mount	5	MUTCD 6F.60, 2009
Traffic Control	Arrow Board	Type A	5	MUTCD 6F.61, 2009
		Type B	5	MUTCD 6F.61, 2009
		Type C	5	MUTCD 6F.61, 2009
		Type D	5	MUTCD 6F.61, 2009
Traffic Control	Speed Notification	Radar / Message Trailer	5	
		Speed Display Trailer	5	
		Speed Display Device	5	
Traffic Control	Traffic Control Enhancement	AFAD (Automated Flagger Assistance Device)	5	MUTCD 6E.04, 2009
		Portable Traffic Signal	5	MUTCD 6F.84, 2009
		Flashing Beacon	5	MUTCD 4L, 2009
Traffic Control	Traffic Control Enhancement	Warning Light	5	MUTCD 6F.83, 2009
		Raised Island, Temporary	5	MUTCD 6F.75, 2009
		Rumble Strip, Temporary	5	MUTCD 6F.87, 2009
		Glare Screen	5	MUTCD 6F.88, 2009
Traffic Control	Channelizing Device	Cone	5	MUTCD 6F.64, 2009
		Tubular Marker	5	MUTCD 6F.65, 2009
		Vertical Panel	5	MUTCD 6F.66, 2009
		Drum	5	MUTCD 6F.67, 2009
		Barricade, Type 1	5	MUTCD 6F.68, 2009
		Barricade, Type 2	5	MUTCD 6F.68, 2009
		Barricade, Type 3	5	MUTCD 6F.68, 2009
		Direction Indicator Barricade	5	MUTCD 6F.69, 2009
		Longitudinal Channelizing Device	5	MUTCD 6F.72, 2009
		Opposing Traffic Lane Divider	5	MUTCD 6F.76, 2009

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Traffic Control	Delineator	Flexible Post	5	MUTCD 3F.02, 2009
		Flexible, Multiple Hit Post	5	MUTCD 6F.80, 2009
		Guardrail Mount	5	MUTCD 6F.80, 2009
Traffic Control	Reflective Element	Barrier (Solid Wall) Marker	5	
		Guardrail & Post Marker	5	
		Delineator Post Marker	5	
		Linear Reflector Strip	5	
Traffic Control	Post Anchoring	Mechanical System	5	
		Polyurethane Foam, Backfill	5	



<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Traffic Control	Traffic Barrier, Temporary	Barrier, Non-Concrete	5	MUTCD 6F.85, 2009
		Barrier Gate	5	MUTCD 6F.85, 2009
		Concrete Pre-Cast [Type 7 MASH]	5	M-606-14
		Concrete Pre-Cast [Type 7 Design Variation]	5	M-606-14
Traffic Control	Crash Cushion, Temporary	Impact Attenuator (Temp. - Constr.)	5	MUTCD 6F.86, 2009
		Truck Mounted Attenuator (TMA)	5	
		Trailer Mounted Attenuator	5	
Traffic Control	Sign Stand	N/A	5	
Traffic Control	Sign Sheeting	ASTM D 4956, Type IV	5	ASTM D 4956
		ASTM D 4956, Type V	5	ASTM D 4956
		ASTM D 4956, Type VI	5	ASTM D 4956
		ASTM D 4956, Type VI [Roll-up & Cone Collar]	5	ASTM D 4956
		ASTM D 4956, Type VIII	5	ASTM D 4956
		ASTM D 4956, Type VIII, Fluorescent	5	ASTM D 4956
		ASTM D 4956, Type IX	5	ASTM D 4956
		ASTM D 4956, Type IX, Fluorescent	5	ASTM D 4956
		ASTM D 4956, Type XI	5	ASTM D 4956
		ASTM D 4956, Type XI, Fluorescent	5	ASTM D 4956
	Films / Miscellaneous	5		

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Years Cycle</u>	<u>Specifications</u>
Traffic Control	Pavement Marking Material	Preformed Plastic Tape, Type I, Permanent	5	ASTM D 4505
		Preformed Plastic Tape, Type II, Permanent	5	ASTM D 4505
		Preformed Plastic Tape, Type III, Permanent	5	ASTM D 4505
		Thermoplastic, Hot Applied	5	
		Thermoplastic, Preformed, No Preheat	5	
		Thermoplastic, Preformed, Preheat	5	
		Epoxy Paint, Standard	5	
		Epoxy Paint, Modified	5	
		Waterborne Paint	5	
		Waterborne, Hi-Build Paint	5	
		Polyurea Paint	5	
		Methyl Methacrylate (MMA)	5	
		Recessed Pavement Marker	5	
		Raised Flexible Marker [temporary]	5	
		Temporary/Construction, Tape	5	ASTM D 4592
Temporary/Construction, Paint	5	CDOT 708.05		
Traffic Control	Lighting [Light Standards]	Conduit, pull boxes, Misc. Wiring Items	5	CDOT 613.01

<b>APL Category</b>	<b>APL Sub-Category</b>	<b>APL Base Category</b>	<b>Years Cycle</b>	<b>Specifications</b>
Waterproofing	PCCP Sealer	Alkyl-alkoxy Silane	4	CDOT 708.01
		Non-Alkyl-alkoxy Silane	4	CDOT 708.01
		Penetrating Epoxy	4	CDOT 708.01
		Micro Subsurface Repair	4	CDOT 708.01
Waterproofing	Elastomeric Membrane	Single Component, Hot Applied	2	ASTM D 6690
		Non-Asphaltic	3	

2.2 Products or product categories that are not currently addressed in any CDOT publication, or are contrary to current CDOT Specifications, or have been disallowed previously should be directed to the Product Evaluation Coordinator (PEC) and not submitted to a project engineer. In accordance with the CDOT Procedural Directive 1401.1, the PEC is designated as the initial contact for all Manufacturers of products of a construction application.

2.2.1 The PEC is not to be contacted for: office supplies, janitorial supplies, computer supplies, tools, testing equipment, vehicles, etc.

2.2.2 CDOT resources are not available to perform research or to act as an independent testing laboratory for any manufacturer. A product may be installed on a CDOT project as an experimental feature as per PD 1401.1 The Manufacturer must be willing to work with CDOT in a mutually beneficial approach to evaluating this new product.

3. CDOT FORM 595

3.1 Download and use the most current ADA-Assibility Compliant CDOT Form 595(Pre-Approved Product Evaluation Request & Summary Form), The CDOT Form 595 is a PDF Writeable form. It has been designed with the intent that the Manufacturer or their Product Representative completes the form in the PDF format that the document is presented in. To maximize efficiency, you are not only completing an application / request for your product to be placed on the APL, but you are completing a standardized technical data sheet that will be displayed on the Web-site. The form with the most current revision date is to be used for all submittals (even re-submittals).

3.2 To accomplish the task of completing the 595 properly and submitting it in an acceptable manner, the following requirements must be adhered to:

3.2.1 Your computer must have at least the Adobe Acrobat Reader version.

3.2.2 The free Adobe Reader. This software allows the user to “read” a PDF’ed document and will allow the fields within the form to be completed; however, it will not allow any attachments to be added to the document. Sending requires that the document first be saved to complete the the field entries, save the document and then e-mail to PEC.

3.2.3 When the CDOT Form 595 is completed and ready to send to CDOT’s PEC, save the document and email it. Do not scan the document it. This is a PDF Writeable form that must remain a PDF Writeable form.





3.2.4 The Product Evaluation Coordinator (PEC) must be able to edit the Form 595 when it is received as well as being able to edit the form at any time in the future. Even though the Manufacturer only completes Page 1, Part 1, the two page form must be submitted electronically.

3.3 Some computer brands have been found to alter the allowed font or distort the form. If this occurs contact the CDOT Product Evaluation Coordinator at; [edward.trujillo@state.co.us](mailto:edward.trujillo@state.co.us) Or 303-304-3468.

#### 4. PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

4.1 A functional current version of the form can be obtained from the current CDOT Product Evaluation Coordinator using the following link;

[edward.trujillo@state.co.us](mailto:edward.trujillo@state.co.us)

download the form 595 to your computer and open the CDOT Form 595 using Adobe Acrobat.

4.2 An explanation of a completed example of the CDOT Form 595 is located at Section 4 and 5, CDOT Form 595 Example is on page 21 and 22. Only Part 1 on Page 1 is for the Manufacturer or their Product Representative to complete. CDOT personnel will complete Page 2 - Parts 2, 3, and 4.

4.3 Follow the instructions within this Subsection for the proper completion of the form. If the form is altered in any manner it can not be processed; this includes changing the allowed font size or style of the form field.

4.3.1 Position the pointer inside a form field, and click. The I-beam pointer indicates the beginning of where to type text. The arrow pointer also allows you to select a button, a check box, a radio button, or an item from a list.

4.3.2 After entering text or selecting an item, check box, or radio button, perform one of the following:

Press Tab - this accepts the form field change and then goes to the next form field.

Press Shift and Tab together - this accepts the form field change and then goes to the previous form field.

Press Enter (Windows) to accept the form field change and deselect the current form field.

In a multi-line text form field such as *Product representative* and *Manufacturer*, Enter goes to the next line in the same form field. You can use Enter on the keypad to accept a change and deselect the current form field. In other multi-line text form fields such as *Description of the product* and *Benefits to CDOT* the text will scroll within the prescribed number of lines.

Press Escape (esc) to reject the form field change and deselect the current form field.



#### 4.3.3 Once you have filled in all of the form fields in Part 1, please do the following:

Compare your completed Form 595 to the example Form 595 in Subsection 5.24. The text will obviously be different but the placement of the information should be consistent.

- You should have initially saved the blank Form 595 to your computer. Use "Save As" for the completed form so that you retain a copy for your records.
- Send this completed Form 595 to CDOT's Product Evaluation Coordinator (PEC) as an e-mail attachment.
- The e-mail Subject line must state the name of the Manufacturer, such as *ABC Company Inc.'s CDOT APL Submittal*. Without an informative Subject line your product submittal may be misfiled.
- In the e-mail content please submit a message stating the name(s) of each product submitted. Additionally, the name of the individual making the submittal, company title, and phone number.

When received by the CDOT PEC a reply e-mail will be sent acknowledging receipt.

## 5. FIELD DESCRIPTIONS on the CDOT Form 595

Note 1: The Form 595 is an Adobe Acrobat document that allows you to attach your product documents to the form. Please fill out Product information, specifications, test lab names and dates are to be referenced as stipulated below.

Note 2: Please contact the PEC if you need assistance with filling out the CDOT 595 form. [edward.trujillo@state.co.us](mailto:edward.trujillo@state.co.us)

- 5.1 **APL Reference No.: FOR INTERNAL CDOT USE ONLY.** A unique four digit number is entered onto the form by the CDOT Product Evaluation Coordinator (PEC) after a complete package has been submitted by the Manufacturer or their Product Representative. A complete package means a properly submitted Form 595, all required supplemental documentation, and that it is for an established APL category. A hyphen followed by the last two digits of the submittal calendar year will be revised through time as the product enters a new re-submittal cycle or if new significant documentation is provided.
- 5.2 **Material code: FOR INTERNAL CDOT USE ONLY.** The CDOT PEC will insert the code when the APL reference number is assigned.
- 5.3 **Material code description full name: FOR INTERNAL CDOT USE.** The CDOT PEC will insert the name when the APL reference number is assigned.





- 5.4 Product name: The product name must be unique to the Manufacturer with a series, model, batch, or lot number included if applicable. This name must be identical to the name on the product literature, the SDS, and all applicable supplemental documentation. Conflicting names will prevent the product evaluation from being performed. If the name is not universally the same on all documents it must be explained and possibly these documents may need to be recreated. For example, if an older report is being provided for historic or comparative analysis and there was a name change for marketing purposes than this must be explained on corporate letterhead with a date and signature. The product name may need to be shortened for the web-site.
- 5.5 Product category: List Category\Sub-category\Base category in this format (note that these are back-slashes not forward-slashes and must be used). This information is available in Section 2, Pre-Approved Method of Acceptance. **If the product can potentially be in more than one categorization then list it within Alternate Product Category at the bottom of Page 1.** This secondary categorization must be defended through referenced specifications and if applicable test data. Categorization has changed through the passage of time therefore, do not assume that a previous submittal is still accurate.
- 5.6 Product representative: The name of the individual working with the PEC and able to provide technical support to CDOT is to be listed after "Attn:". The name of the Product representative's company must be listed, whether it is the same as the manufacturer's or not. Include the complete address (P.O. Box is acceptable), the Phone number, and the e-mail address.
- 5.7 Web-site address: The inclusion of a Web-site address of the Product Representative assists potential customers with more detailed information than is available on the Form 595. If you do not have a Web address then state "None."
- 5.8 Manufacturer: The name of the individual working with the PEC and able to provide technical support to CDOT is to be listed after "Attn:". The name of the Manufacturer's company must be listed. If the product comes from a refinery, specific mills or production facilities then this precise facility is to be listed within the Manufacturer field. The actual physical address is required not a P.O. Box. The Corporate address in this instance is to be listed within the Product Representative field. Include the Phone number and the e-mail address.
- 5.9 Web-site address: The inclusion of a Web-site address of the Manufacturer assists potential customers with more detailed information than is available on the Form 595. If you do not have a Web address then state "None."





- 5.10 Description of the product: Be precise with the description. Every product category has at least some unique criteria as referenced within the required specifications that can be used as a basis for direct comparison. Include physical dimensions, weight, physical properties, chemical properties, etc. Do not make your description so vague as to be meaningless. This information will be verified; therefore, it should be identical to what is listed on the technical data sheet and the product literature which will in turn be verified against the certified test reports from an independent lab. Do not include advertising and marketing. A maximum of eight lines of text may be utilized for this form field.
- 5.11 Restrictions: Some products have a restriction. This may be a minimum application temperature or a placement requirement that forbids installation within the roadway. A maximum of one line of text may be utilized for this form field. CDOT may state a restriction during the evaluation.
- 5.12 Use of the product: Be specific to applications on CDOT highway activities only. Do not reference commercial uses. A maximum of one line of text may be utilized for this form field.
- 5.13 Benefits to CDOT: How will your product enhance quality, improve safety, save money, and/or be a better value than other manufacturer's products. A maximum of four lines of text may be utilized for this form field.
- 5.14 Specifications: List the applicable specification(s) that relate to this submitted product. Do not just check the box, but enter the actual specification reference number. Only the most recent publication revision date or specification date should be referenced. It is irrelevant to reference specifications that are no longer current and therefore invalid. A product without a specification may not be considered.

<http://www.codot.gov/business/designsupport> to review the CDOT specifications

CDOT:2021 Construction Standard Specification Provisions;

CDOT 2021 Standard Plans, M & S Standards;

Noise Guide for Highways, Volume IX, CDOT Design Guide

Erosion Control and Stormwater Quality Guide

ASTM: American Society for Testing and Materials

AASHTO: American Association of State Highway Transportation Officials

FHWA: Federal Highway Administration

2009 MUTCD (Manual of Uniform Traffic Control Devices)





- 5.15 **Certificate of Compliance (COC):** A COC is required to certify compliance with the listed specifications both now in in the future. It must be submitted to legally document that the specifications referenced are being complied with.
- 5.16 **Certificate of Verification (COV):** A COV is required for specific product categories to verify the complete reference of all FHWA Acceptance letters and /or Eligibility letters and their inclusion in the submittal package as well as the complete reference and inclusion of product testing. It must be signed by a senior corporate officer and notarized. See Section 7 for more details.
- 5.17 **Product Testing:** National / independent laboratories or universities that have performed evaluations of the product submitted. The greater the independence from the influence of the Manufacturer the more credence will be given to the test results. In essence this is the quality assurance of a manufacturer's quality control over their product.

**A Certified Test Report (CTR):** is required to validate all claims made regarding the product on the Technical Data Sheet / Product Literature. CTRs must list all of the test results indicated in the referenced specifications. CTRs submitted should not have a report date that exceeds one year from the product submittal date to CDOT, and CTRs older than two years are only beneficial from a comparative perspective.

**NTPEP (National Testing Product Evaluation Program):**

Reference the most recent published report that includes your product, including the Report No., NTPEP No., and date (always listed on the document). Even with NTPEP's DataMine a hard copy of the test data must be submitted with all other documentation.

[Transportation.org – The home of transportation professionals.](https://www.transportation.org)

Note 3: For large scale testing (ASTM D 6459-07 and ASTM D 6464-07) products will be evaluated on the latest CTR submitted and not the average published data from the NTPEP-AASHTO Web Site.

**FHWA:**

Federal Highway Administration. Evaluation and eligibility letters (previously referred to as acceptance letters) for Work Zone Devices:

[Work Zone Devices](#)

[Barrier Terminals & Crash Cushions](#)

[Safety Eligibility Letter](#)

Reference the most recent published report that includes your product, including the Report No., HITEC No., and date (always listed on the document)].

Other: National / independent laboratories, Universities, etc. Include report date





- 5.18 State DOT Approvals: Do not reference any State that you do not have some form of documentation from, such as a letter or the applicable page from the State's

APL web-site: The State DOT letterhead must be present on the letter as well as the approval date. Approval letters older than three years will not be accepted without being attached to a current reference page off the State's APL or QPL web-site. In most cases six approvals should be provided from states comparable to Colorado. If less than six States are provided it must be explained.

- 5.19 Re-submittal Cycle: This is the duration of time before a product will either automatically expire from the APL as in products submitted as a batch, or it is the number of years prior to required re-submittal and therefore re-evaluation. This time frame is designated by the CDOT Subject Matter Expert. The specific cycle and expiration date is referenced on Page 1, Part 1 of the CDOT Form 595 for each product category.

Note: you will need to resubmit all of your product documents and a completed CDOT Form 595 prior to the end-of Cycle or Expiration Date located on the bottom right of the CDOT Form 595 for evaluation. Contact the CDOT Product Evaluation coordinator for any questions concerning the Re-submittal procedures.

- 5.20 Sample submitted: This is a Yes, No, or N/A (not applicable) form field. No samples of a hazardous nature are to be submitted. No samples that cannot be disposed of as legally accepted municipal trash are to be submitted. Contact the PEC if uncertain as to whether a sample should be submitted. All products submitted become the property of CDOT at no cost to CDOT.

Yes indicates that a sample is being mailed at the time this form is being submitted.

No indicates that no sample is being mailed at this time.

N/A is for products too large and/or too expensive to provide to CDOT.

- 5.21 Safety Data Sheets (SDS): This is a Yes, No, or N/A (not applicable) form field. The SDS is product-specific and only the latest revision / analysis date is acceptable. A SDS that does not have a date will not be accepted as valid. All previously created Material Safety Data Sheets (MSDS) should be replaced with the currently required Safety Data Sheet.

- 5.22 Alternate Product Category: Referenced within Subsection 5.5, Product Category. Very few products will be accepted under more than one category.





- 5.23 Additional Comments: This form field allows for three lines of supplemental information that can assist the CDOT Product Evaluation Coordinator or other customers. An example would be the statement:  
A sample is available upon request at no cost to the DOT or customer.  
The product was previously marketed under the name \_\_\_\_\_.  
(Cont'd from Description of Product:) \_\_\_\_\_.  
Installed on \_\_\_\_ roadway between milepost \_\_\_\_ to \_\_\_\_ on the date of \_\_\_\_\_.

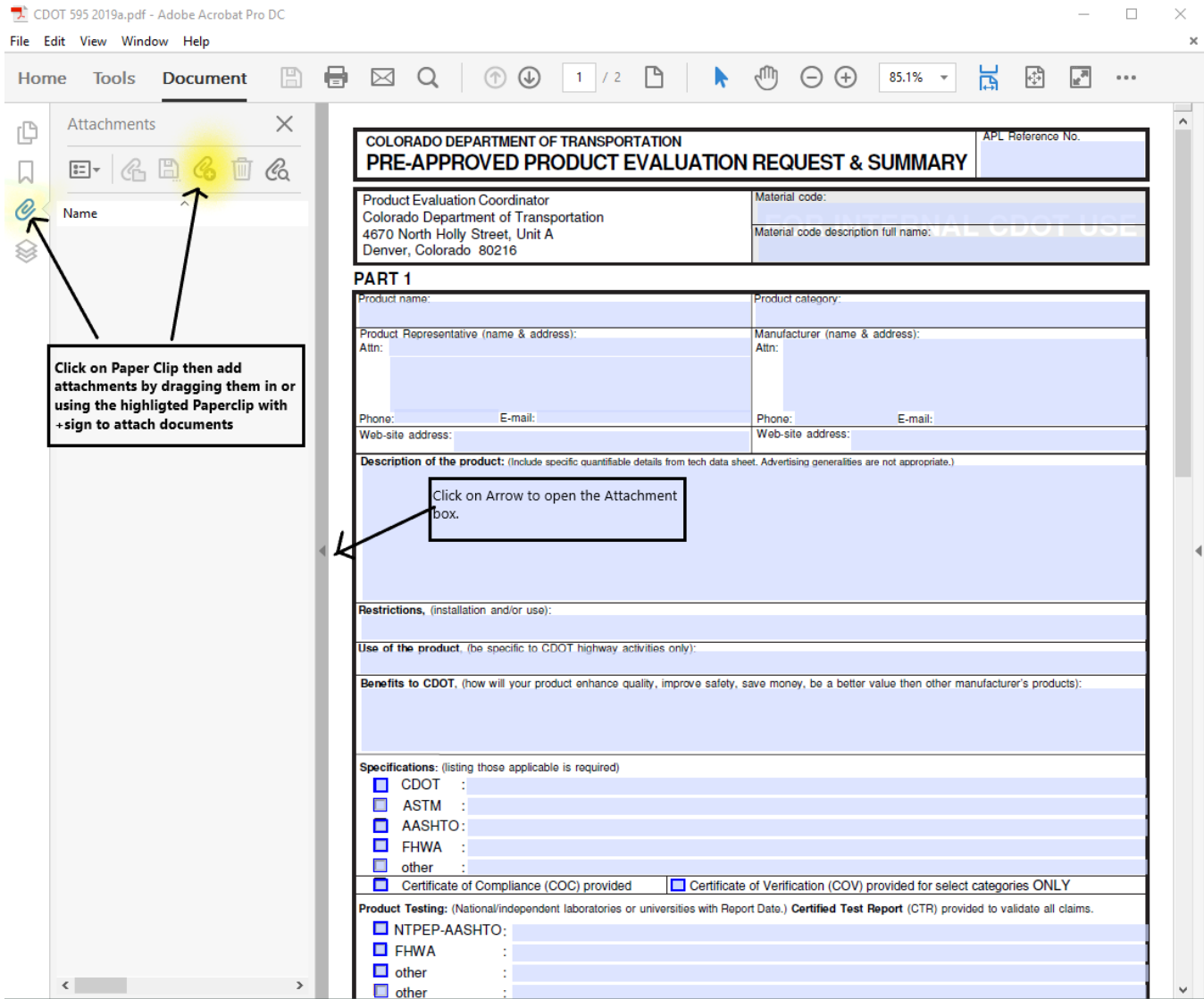
**Note 4:** As a reminder, failure to comply with the instructions as presented in Subsection 5.4 through Subsection 5.23 may cause the submitted product documentation to be delayed. It is not the responsibility of the CDOT PEC to review, process, and evaluate a Manufacturer's product submittal when the detailed instructions are not complied with.

1. Use the CDOT Form 595 most current revision date.
2. Do not submit the CDOT Form 595 as a hand written document it can not be processed.
3. Do not submit a scanned document.
4. Submit electronically the product documents for evaluation.

- 5.24 CDOT Form 595 Example: Verify your intended 595 submittal against the example to ensure that obvious mistakes are not being made.



**ATTACHMENT INSTRUCTIONS:**



CDOT 595 2019a.pdf - Adobe Acrobat Pro DC

File Edit View Window Help

Home Tools Document

Attachments

Name

Click on Paper Clip then add attachments by dragging them in or using the highlighted Paperclip with +sign to attach documents

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

APL Reference No. \_\_\_\_\_

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

Material code: \_\_\_\_\_  
Material code description full name: **INTERNAL CDOT USE**

**PART 1**

Product name: \_\_\_\_\_ Product category: \_\_\_\_\_

Product Representative (name & address):  
Attn: \_\_\_\_\_

Manufacturer (name & address):  
Attn: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Web-site address: \_\_\_\_\_ Web-site address: \_\_\_\_\_

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

Click on Arrow to open the Attachment box.

Restrictions, (installation and/or use): \_\_\_\_\_

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

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

Specifications: (listing those applicable is required)

CDOT : \_\_\_\_\_  
 ASTM : \_\_\_\_\_  
 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 : \_\_\_\_\_  
 other : \_\_\_\_\_





EXAMPLE CDOT FORM 595:

<b>COLORADO DEPARTMENT OF TRANSPORTATION</b>		APL Reference No.
<b>PRE-APPROVED PRODUCT EVALUATION REQUEST &amp; SUMMARY</b>		<b>CDOT Use Only</b>
Product Evaluation Coordinator Colorado Department of Transportation 4670 North Holly Street, Unit A Denver, Colorado 80216		Material Code <b>CDOT Use Only</b> CDOT Use Only
		Material Code description full name <b>CDOT Use Only</b> CDOT Use Only
<b>PART 1</b>		
Product name: <b>Product Name and Batch Number if applicable</b>		Product category: <b>Follow the Notice to Manufacturer's handbook</b>
Product Representative (name & address): Attn: <b>Distributor or Manufacturer Representative name</b>  Company Name Physical Address Town and State Zip Code Phone: xxx-xxx-xxxx E-mail: <b>Representative email</b>		Manufacturer (name & address): Attn: <b>Distributor or Manufacturer Representative name</b>  Company Name Physical Address Town and State Zip Code Phone: xxx-xxx-xxxx E-mail: <b>Representative email</b>
Web-site address:		Web-site address:
Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.) <b>Complete Description of Product</b>		
Restrictions, (installation and/or use): <b>Complete Description of Restrictions</b>		
Use of the product, (be specific to CDOT highway activities only): <b>Specific Highway activities</b>		
Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value than other manufacturer's products): <b>Explain the Benefit to CDOT</b>		
Specifications: (listing those applicable is required) <input checked="" type="checkbox"/> CDOT : CDOT Specification Section reference number for example 713.13 (if applicable ) <input checked="" type="checkbox"/> ASTM : ASTM Specification for example D1133 (if applicable) <input checked="" type="checkbox"/> AASHTO: AASHTO Specification for example T190 (if applicable) <input checked="" type="checkbox"/> FHWA : FHWA Letter or reference (if applicable) <input checked="" type="checkbox"/> other : Other Specification (if applicable) <input type="checkbox"/> Certificate of Compliance (COC) provided <input type="checkbox"/> Certificate of Verification (COV) provided for select categories <b>ONLY</b>		
Product Testing: (National/independent laboratories or universities with Report Date.) <b>Certified Test Report (CTR)</b> provided to validate all claims. <input checked="" type="checkbox"/> NTPEP-AASHTO: National Transportation Product Evaluation Program Test Report number <input checked="" type="checkbox"/> FHWA : FHWA Certified Test Report <input checked="" type="checkbox"/> other : Independent Laboratory Certified Test Report (Most current) and (Date) <input type="checkbox"/> other : <input type="checkbox"/> other :		
State DOT Approvals, (current documentation required):		Expiration Date <b>CDOT Use Only</b>
Sample submitted: <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a		Safety Data Sheets (SDS): <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> n/a
Alternate Product Category:		
CDOT Product RESTRICTIONS by CDOT Evaluator: <b>CDOT USE ONLY</b>		Evaluators Signature: 





## 6. REQUIRED SUPPLEMENTAL DOCUMENTATION

- 6.1 The Pre-Approved Product Evaluation Request & Summary Form, CDOT Form 595, will need to be completed with the utilization of numerous sources of supporting documentation. This supporting documentation is the recommended method to be submitted to CDOT's PEC. If you have the Adobe Pro DC software attach documents to the CDOT 595 and e-mail as one document or e-mail your product documents separately if you have the Adobe Reader software and cannot attach the documents to the CDOT form 595.
  - 6.1.1 Quality of the documentation is essential. Technical Data Sheets that are without detail are worthless. Installation or application instructions are important to be included; however, this should not replace the required engineering technical details. If the original was in color so should the copy be in color. CTRs should be the entire report, not just selected pages. Without a report date and the name of the individual responsible for the report's data then the report's conclusion(s) has no value. Photographs and videos of the product and potentially its installation are relevant to an effective evaluation.
  - 6.1.3 E-Mail the CDOT 595 with attached documents of supplemental documentation packets to CDOT's Product Evaluation Coordinator (PEC). This is the same address that should be used for mailing samples (**Do not submit samples unless requested**). This information as well as the e-mail address is also listed below.

Attn: Edward Trujillo  
Product Evaluation Coordinator  
Colorado DOT  
4670 North Holly Street, Unit A  
Denver, CO 80216-6408  
(303) 398-6566 Office  
(303) 303-304-3468 Cell  
[Edward.trujillo@state.co.us](mailto:Edward.trujillo@state.co.us)





## 7. CERTIFIED TEST REPORT / CERTIFICATE OF COMPLIANCE / CERTIFICATE OF VERIFICATION

Information within the Special Notice to Contractors chapter from CDOT's most current Field Materials Manual (FMM) is of relevance and benefit to the Manufacturers. Examples of what is required on a Certified Test Report (CTR) and on a Certificate of Compliance (COC) is provided.

### [Special Notice to Contractors](#)

<https://www.codot.gov/business/designsupport/materials-and-geotechnical/manuals>

A document entitled a *Certificate of Verification* (COV) is required for the Roadway Safety category products and for two select sub-categories within the Traffic Control category. The two Traffic Control sub-categories that will require a COV are Traffic Barrier, Temporary and Crash Cushion, Temporary. The justification for a COV is to ensure through a legal document that CDOT has received all FHWA Acceptance or Eligibility letters and all test reports. The tests involve NCHRP 350 test levels or the new MASH requirements. As destructive testing the cost is very expensive and requiring it every five years or even every ten years would be prohibitive.

The Certificate of Verification is to be signed by a senior corporate officer, not a manager, stipulating that as of the date submitted to CDOT the product is identical to the one tested by \_\_\_\_\_(list the testing facility's name) from their \_\_\_\_\_ report (list the report's date) and that there are no FHWA letters concerning this product beyond the last Eligibility Letter provided dated \_\_\_\_\_. This letter needs to be notarized and the original mailed to the CDOT PEC. A second Certificate of Verification will be requested by the Subject Matter Expert or the PEC once the evaluation process is completed. Therefore one COV to start the evaluation and one at the beginning of the APL posting to maximize the time before another COV will be required.

The applicable CDOT Subject Matter Expert (SME) who will act as the product evaluator requires that references to the associated specifications be provided. CDOT Standard Specifications for Road and Bridge Construction references will be listed so that you are aware of CDOT requirements. These will be shortened to Std. Spec. xxx.xx. The products which require a sample to be submitted with the supplemental documentation will be indicated. The re-submittal cycle for the various categories or sub-categories will be indicated.

Note 5: Each product's expiration date from CDOT's APL has been added to the CDOT Form 595 page 1 Part 1. The CDOT Subject Matter Expert's (SME) Approval Date will be the expiration date. The expiration date is automatic and it is the Manufacturer's responsibility to ensure that a new submittal package with current documentation is provided prior to their product being expired from the web-site.

## Product Specific Information

### ADHESIVE\BRIDGE

- 7.01.01 Adhesive\Anchoring, Lateral: **Project by Project Approval Only.**
- 7.01.02 Adhesive\Anchoring, Overhead: **Project by Project Approval Only.**
- 7.01.03 Adhesive\Bonding: **Project by Project Approval Only.**

### ASPHALT

- 7.02.01 Asphalt\Asphalt Release Agent: NTPEP has replaced Texas DOT for the product testing. After the asphalt release agent has been placed on Texas's acceptance list then you need to submit to CDOT the Form #595 and the required supplemental documentation. If the product is removed from the TX DOT approved list for any reason it will also be removed from CDOT's. [No sample required.] {Re-submittal cycle, 3 years to mirror the same expiration date as the TX DOT web site}  
**NTPEP: Asphalt Release Agents (ARA), retest every 3 years.**
- 7.02.02 Asphalt\Binder\NA: Std. Spec. Table 702-1 [PG 58-28, PG 58-34, PG 64-22, PG 64-28, PG 70-28, PG 76-28]; comply with CP 11 of the current Field Materials Manual (FMM). An example of the product name will be PG 58-28 (2020). The product's lifespan on the CDOT APL is a maximum of less than one year because all previous calendar year referenced products are de-activated on February 1<sup>st</sup>. The manufacturer's name and address is the production facility. **[Sample required.] {Re-submittal cycle, annually}**
- 7.02.03 Asphalt\Emulsion\NA: Std. Spec. Table 702-2, Table 702-3, Table 702-4, Table 702-6, Table 702-9, AASHTO M 140 Table 1; comply with CP 11 of the current Field Materials Manual (FMM). An example of the product name will be CSS-1h (2023). The product's lifespan on the CDOT APL is a maximum of less than one year because all previous calendar year referenced products are de-activated on February 1<sup>st</sup>. The manufacturer's name and address is the production facility. **[Sample required.] {Re-submittal cycle, annually}**
- 7.02.04 Asphalt\Hydrated Lime: AASHTO M 303, Type 1. ASTM C 25, C 110, C 977; comply with CP 11 of the current FMM. **{Re-submittal cycle, 4 years}**

## BRIDGE

- 7.03.01 Bridge Structures\Geocomposite Drain: Std. Spec. 712.08, AASHTO M 288. {Re-submittal cycle, 5 years}
- 7.03.02 Bridge Structures\Thin Bonded Overlay\: Std. Spec. 519 {Re-submittal cycle, 5 years} NTPEP: Polymer Concrete Overlays (PCO), retested every 5 years.
- 7.03.03 Bridge Structures\Structural Wrapping Repair\: Uni-directional or bi-directional. {Re-submittal cycle, 5 years}

## CONCRETE

- 7.04.01 Concrete\Admixture\: AASHTO M 154 for Air Entraining Admixtures; AASHTO M 194, Type A through G; or ASTM C 494, Type S. [No samples required.] {Re-submittal cycle, 4 years} NTPEP: Concrete Admixtures (CADD), retested every 5 years and 10 years.
- 7.04.02 Concrete\Curing Compound\: ASTM C 309, Type 1 or Type 2. [No samples required.] {Re-submittal cycle, 3 years} NTPEP: Concrete Curing Compounds (CCC), retested every 3 years. Note: AASHTO M 148 has been deleted. Do not reference!
- 7.04.03 Concrete\Cement\: ASTM C 150, ASTM C 595, or ASTM C 1157. Six consecutive months of mill certs / CTRs required. Any product not used on a CDOT project within two full construction seasons will be de-activated from the APL. {Re-submittal cycle, 4 years}
- 7.04.04 Concrete\Pozzolan\: ASTM C 618 or ASTM C 1240 (and ASTM C 1609), AASHTO M 321. Six consecutive months of mill certs / CTRs required. Any product not used on a CDOT project within two full construction seasons will be de-activated from the APL. {Re-submittal cycle, 4 years}

## CONCRETE (Continued)

7.04.05 Concrete\Fiber: ASTM C 1116, ASTM D 7508, Std. Spec. 709. Where Fiber-Reinforced Concrete is specified or designated on the plans, the concrete mix shall include approved polyolefin fibers. Unless otherwise specified, a minimum of 1.5 pounds or the manufacturer's recommended dose per cubic yard of polyolefin fiber reinforcement shall be evenly distributed into the mix. Mixing shall be as recommended by the manufacturer such that the fibers do not ball up. Polyolefin fibers shall meet the requirements of ASTM C1116 and ASTM D7508.

{Re-submittal cycle, 4 years}

Where Macro Fiber-Reinforced Concrete is specified or designated in the plans, the concrete mix shall include approved macro or hybrid polyolefin fibers at a minimum dosage of 4 lb/cy or the minimum dosage specified on the APL whichever is greater. The dosage of the fiber may be reduced if trial mix data shows a minimum residual strength of 150 psi as determined in accordance with ASTM C1609 using a load support apparatus compliant with the requirements of ASTM C1812, "Standard Practice for Design of Journal Bearing Supports to be Used in Fiber Reinforced Concrete Beam Tests." Mixing shall be as recommended by the manufacturer such that the fibers are evenly distributed in the mix and do not ball up. Macro or hybrid polyolefin fibers shall meet the requirements of ASTM C1116 and ASTM D7508.

{Re-submittal cycle, 4 years}

### 7.04.06 Concrete Grout

7.04.06.1 Concrete\Grout\General Purpose [Non-Shrink]:ASTM C 1107, CDOT Std. Spec. 618.02 {Re-submittal cycle, 4 years}

7.04.06.2 Concrete\Grout\Post-Tensioned Cable: Std. Spec. 618.09 (b)Table 618-1, {Re-submittal cycle, 4 years}

7.04.06.3 Concrete\Grout\PCCP Grout: ASTM C 989, Std. Spec. 618.09, {Re-submittal cycle, 4 years}

## CONCRETE (Continued)

- 7.04.07 Concrete\Repair/Patching\ : Certified Test Reports referencing ASTM C39, C666, C266, C882, and C531 performed by an AMRL/CCRL accredited independent laboratory within the past year (12 months). CTR required to be submitted annually. {Re-submittal cycle, 4 years}  
**NTPEP: Rapid Set Concrete Patch Materials (RSCP), retested every 5 years.**
- 7.04.07.01 Concrete\Repair/Patching\Rapid Set, Horizontal: ASTM C 928
- 7.04.07.02 Concrete\Repair/Patching\Rapid Set, Vertical & Overhead: ASTM C 928
- 7.04.07.03 Concrete\Repair/Patching\Bonding Agent: ASTM C 1059
- 7.04.08.03 Concrete\Tie Bar Anchorage\PCCP Tie Bar Epoxy: CDOT Standard Specifications 412.13, ASTM E488. **Project by Project approval only.**

## DRAINAGE

- 7.05.01 Drainage\Culvert Pipe\ : Std. Spec. 603 and 712 {Re-submittal cycle, 5 years}
- 7.05.01.01 Drainage\Culvert Lining [Repair]: Std. Spec. 603 and 712
- 7.05.01.02 Drainage\Open-Cut/Direct-Bury: Std. Spec. 603 and 712
- 7.05.02 Drainage\Manholes & Inlets\Manhole Riser, Trench, Plastic: Std. Spec. 604 and 712 [No sample required.] {Re-submittal cycle, 5 years}
- 7.05.03 Drainage\Storm Water Separator\ : Std. Spec. 604 and 712 [No sample required.] {Re-submittal cycle, 5 years}

## ENVIRONMENTAL

Note: The Noise Barrier Wall Category will be approved onto the CDOT Approved Products list using the following requirements: Bridge Structure Requirements, Highway Safety Requirements, and Acoustic Qualities by the Staff Subject Matter Experts.

- 7.06.01 Environmental\Noise Wall\ APL approval, Per CDOT's Design Guide, Chapter 18, Noise Guide  
<https://www.codot.gov/programs/environmental/noise>
- 7.06.01.1 Environmental\Reflective: Per CDOT's Design Guide, Chapter 18, Noise Guide
- 7.06.01.2 Environmental\Absorptive: Per CDOT's Design Guide, Chapter 18, Noise Guide

## EROSION

- 7.07.01 **Erosion Control, Soil Retention Rolled\:** NTPEP: Erosion Control Products (ECP), Index and Bench Scale Testing Program: Following the initial testing and data release of a product, index and bench scale must be re-tested on an every-three-year cycle to remain published. Geosynthetics (GTX & REGeo), Audit Program participation required annually.
- 7.07.01 **Erosion Control\SRB [Biodegradable Class 1 or 2]:** NTPEP: Data from Large Scale Testing (ASTM D 6459-07) shall be provided and the CTRs submitted should not have a report date that exceeds 20 years from the product submittal date to CDOT. Index Testing (ASTM D 6525, ASTM D 6475 and ASTM D 6818) CTRs submitted should not have a report date that exceeds 3 years from the product submittal date to CDOT and shall be retested every 5 years.
- 7.07.01 **Erosion Control\SRB [Photodegradable Class 1 or 2]:** NTPEP: Data from Large Scale Testing (ASTM D 6459-07) shall be provided and the CTRs submitted should not have a report date that exceeds 20 years from the product submittal date to CDOT. Index Testing (ASTM D 6525, ASTM D 6475 and ASTM D 6818) CTRs submitted should not have a report date that exceeds 3 years from the product submittal date to CDOT and shall be retested every 5 years.

**Std. Spec. 216.02. Soil Retention Blankets (SRB)** consisting of synthetic and/or organic material installed on steep slopes or channels to prevent erosion until final vegetation is established.

[2 samples are required of a minimum 7" x 7" but not to exceed 8" x 10" if requested.] {Re-submittal cycle, 5 years}

- 7.07.01.02 **Erosion Control\TRM [Class 1, 2, 3, 4]:** Std. Spec. 216.02. Turf Reinforcement Mat (TRM) is a permanent erosion control product composed of UV-stabilized, non-degradable, synthetic materials processed into a three-dimensional matrix. [2 samples required of a minimum 7" x 7" but not to exceed 8" x 10" if requested.] {Re-submittal cycle, 5 years}
- NTPEP: Data from Large Scale Testing (ASTM D 6460-07) shall be provided and CTRs submitted should not have a report date that exceeds 20 years from the product submittal date to CDOT. Index Testing (ASTM D 6525, ASTM D 6475 and ASTM D 6818) CTRs submitted should not have a report date that exceeds 3 years from the product submittal date to CDOT and shall be retested every 5 years.
- 7.07.01.03 **Erosion Control\Biodegradable Stakes:** Std. Spec. 216. New base category for 2016. [2 samples required if requested.] {Re-submittal cycle, 5 years}
- 7.07.02. **Erosion Control\Biotic Soil Amendments\Hydraulically Applied:** Std. Spec. Table 212.8, 212.9. [Sample on Request] {Re-submittal cycle, 5 years}
- 7.07.02.01 **Erosion Control\Bonded Fiber Matrix:** Std. Spec. 213. New base category for 2016. [No samples required.] {Re-submittal cycle, 5 years}
- 7.07.02.02 **Erosion Control\Spray-On Mulch Blankets [Type 1]:** Std. Spec. 213. New base category for 2016. [No samples required.] {Re-submittal cycle, 5 years}
- 7.07.02.03 **Erosion Control\Spray-On Mulch Blankets [Type 2]:** Std. Spec. 213. New base category for 2016. [No samples required.] {Re-submittal cycle, 5 years}
- 7.07.03 **Erosion Control\Ditch\:** No current Information available.
- 7.07.03.01 **Erosion Control\Silt Berm:** Std. Spec. 208.02. Ultraviolet stabilized polyethylene or approved material used to dissipate water velocity by flowing through or over the structure. [2 samples at actual dimensions of the entire product including stakes are required if requested.] {Re-submittal cycle, 5 years from the CTR.}
- 7.07.04 **Erosion Control\Herbicide\:** No current information available.
- 7.07.04.01 **Erosion Control\Herbicide\Selective Pre-emergent Application:** Std. Spec. 217.02. New base category for 2016. [No samples required.] {Re-submittal cycle, 4 years}
- 7.07.04.02 **Erosion Control\Herbicide\Selective Contact Application:** Std. Spec. 217.02. New base category for 2016. [No samples required.] {Re-submittal cycle, 4 years}

## **Sediment/Pollution Control**

- 7.08.01 Sediment/Pollution Control \ Construction Inlet Protection \:
- 7.08.01.01 Sediment/Pollution Control\Storm Drain Inlet Protection, Type 1, 2, and 3: Std. Spec. 208.02 (m). Aggregate filled woven geotextile fabric used to control sediment from flowing into curb and drop inlets. [2 samples at actual dimensions without the aggregate are required if requested.] {Re-submittal cycle, 5 years from the CTR.}
- 7.08.02 Sediment/Pollution Control \ Construction Dewatering \: No current information available.
- 7.08.02.01 Sediment/Pollution Control\Dewatering Filter Bag: Std. Spec. 208.02. Manufactured woven geotextile fabric bags used to control sediment discharge in the dewatering application. A dewatering filter bag. [2 samples of the fabric are required of a minimum 7" x 7" but not to exceed 8" x 10" if requested.] {Re-submittal cycle}

## **Sediment/Pollution Control (Continued)**

- 7.08.03 Sediment/Pollution Control \ Temporary Slope Drain \:
- 7.08.03.01 Sediment/Pollution Control\Flexible Pipe: Heavy duty flexible material with a minimum diameter of 12" such as non-perforated corrugated plastic pipe or tubing. Used as temporary slope drains during construction. [2 samples required with the length twice the diameter if requested.] {Re-submittal cycle, 5 years}
- 7.08.03.02 Sediment/Pollution Control\Manufactured Channel Liners: Rigid or flexible watertight linings made from UV resistant HDPE used as temporary slope drains. [No sample required; however, during the evaluation process the SME will arrange a viewing of the product.] {Re-submittal cycle, 5 years}
- 7.08.04.01 Sediment/Pollution Control \ Concrete Washout Structure: Pre-Fabricated: Std. Spec. 208.02. Manufactured watertight containers designed to contain liquids and solids. [No sample required; however, during the evaluation process the SME will arrange a viewing of the product.] {Re-submittal cycle, 5 years}
- 7.08.05.01 Sediment/Pollution Control \ Vehicle Tracking Control \Pre-Fabricated: Std. Spec. 208.02 (k). Manufactured mat products engineered to handle road construction equipment. Used to control tracking of soil from construction sites. [No sample required; however, during the evaluation process the SME will arrange a viewing of the product.] {Re-submittal cycle, 5 years}



## MAINTENANCE

**Note :** The Maintenance APL Category. The products for the subsequent Sub-Categories and Base Categories were previously submitted directly to the CDOT Maintenance. They will be evaluated by the assigned Subject Matter Experts. The product submittals from the Manufacturer will go through the PEC initially as per section 2 of this handbook and will be posted on the APL by the PEC after the evaluation.

- 7.09.01 **Maintenance \ Deicing, Liquid\:** Clear Roads & CDOT Maintenance Spec. Clear Roads manages the Qualified Product List and Snow and Ice Control Chemical Products Specifications and Test Protocols 10/2021. The Category referenced below are from Clear Roads. {Re-submittal cycle, 5 years}
- 7.09.01.01 Corrosion Inhibited Magnesium Chloride (Cat. 1)
- 7.09.02 **Maintenance \ Deicing, Granular\:** Clear Roads & CDOT Maintenance Spec. Clear Roads manages the Qualified Product List and Snow and Ice Control Chemical Products Specifications and Test Protocols 10/2021. The Categories referenced below are from Clear Roads. {Re-submittal cycle, 5 years}
- 7.09.02.01 Brine Salt (Cat. 8A-R):
- 7.09.02.02 Wet Salt (Cat. 8B):
- 7.09.03 **Maintenance \ Inhibitor/Enhancer\:** Clear Roads & CDOT Maintenance Spec. Clear Roads manages the Qualified Product List and Snow and Ice Control Chemical Products Specifications and Test Protocols 10/2021. The Categories referenced below are from Clear Roads. {Re-submittal cycle, 5 years}
- 7.09.03.01 Corrosion Inhibitor for Sodium Chloride Brine (Cat. A-1):
- 7.09.03.02 Corrosion Inhibitor for Sodium Chloride Brine (Cat. A-3):

#### 7.09.04.01 Maintenance \ Alternate Traction Devices\

House Bill 19-1207 CRS 42-4-106 (5)(a) (I) (F)

(I) "ALTERNATE TRACTION DEVICE" MEANS A DEVICE THAT IS APPROVED BY THE COLORADO DEPARTMENT OF TRANSPORTATION AS CAPABLE OF PROVIDING TRACTION COMPARABLE TO THAT OF METAL CHAINS OR TIRE CABLES UNDER SIMILAR CONDITIONS.

2 CCR 601-14 Rules Governing Chain Law and Passenger Vehicle Traction Law Requirements on the State Highway System

6.02 Tire Chains. Tire chains include but are not limited to metal chains, which consist of two circular hoops, one on each side of the tire, connected by not less than 9 evenly spaced chains across the tire tread. See 42-4-106 (5)(a)(I), C.R.S. Tire chains shall meet the SAE classification as outlined in NACM 92805 (TC) by the National Association of Chain Manufacturers. Dual tire chains are acceptable.

6.04 Tire Cables. Tire cables are ADT's made of steel cable as opposed to steel chain link, which have high strength steel cross member rollers 0.415" or greater in diameter, which may be used on passenger vehicles and by commercial vehicles under limited circumstances.

Maintenance \ Alternate Traction Devices \ Chains (Passenger)

Alternate Traction Devices will be comparable to Tire Chains as defined in 2 CCR 601-14 6.02 and shall meet the test requirements per ONORM V 5121/~~ONORM V 5447~~ and EN1662 for passenger vehicles and ONORM V 5119 for commercial vehicles and conform to WAC 204-24-035, Nevada Test Facility.

Note: All listed test facilities conform with the CDOT approved requirements as presented.

Product CTRs required to demonstrate compliance and performance per standards. **{Resubmittal cycle, 5 Years}**

Maintenance \ Alternate Traction Devices\Cable Chains (Commercial Vehicles)

Alternate Traction Devices shall be comparable to Tire Cables as defined in 2 CCR601-14 6.04 and shall meet the test requirements per ONORM V 5121/~~ONORM V 5447~~ and EN1662 for passenger vehicles and ONORM V 5119 for commercial vehicles and ONORM V 5119 and conform to WAC 204-24-035.

Note: traditional tire cables made of steel cable as opposed to steel chain link, which have high strength steel cross member rollers 0.4115" or greater in diameter will not need Department approval or need to be listed on the APL.

Product CTRs required to demonstrate compliance and performance per standards. **{Resubmittal Cycle, 5 Years}**



## MAINTENANCE (Continued)

- 7.09.05 Asphalt\Roadway Patching\Pre-Mixed: **CDOT Currently developing a specification and procedure.** [No sample is to be sent until the documentation has been reviewed and a written request made by the PEC.] {Re-submittal cycle, 5 years}

## PAINT

- 7.10.01 Paint / Coating\Anti-Graffiti: Std. Spec. 708. [No sample required.] {Re-submittal cycle, 5 years}
- 7.10.02 Paint / Coating\Concrete Corrosion Inhibitor: Std. Spec. 708. [No sample required.] {Re-submittal cycle, 5 years}
- 7.10.03 Paint/Coating\Epoxy Coating: Std. Spec. 708. [No sample required.] {Re-submittal cycle, 5 years}
- 7.10.04 Paint/Coating\Structural Concrete Coating: Std. Spec. 708. [No sample required.] {Re-submittal cycle, 5 years}  
NTPEP: Concrete Coating Systems (CCS), retested every 7 years.
- 7.10.05 Paint/Coating\Structural Steel Paint (Bridge): Std. Spec. 708. [No sample required.] {Re-submittal cycle, 5 years} NTPEP: Structural Steel Coatings (SSC), retested every 7 years.

## PEDESTRIAN SAFETY

- 7.11.01 Pedestrian Safety \ ADA Truncated Dome \ Embedded or Retrofit: CDOT M-608-1, ADAAG 4.29.5, ADAAG 1108.1. {Re-submittal cycle, 5 years}
- 7.11.02 Pedestrian Safety \ Joint System: {Re-submittal cycle, 5 years}



## **RIGHT OF WAY**

**Note: BUY AMERICA documents must be submitted with Products using Steel and Iron** - follow the link to the 2023 Field Materials Manual\Contractor, Special Notice Section 4, BUY AMERICA REQUIREMENTS, "for the use of domestic steel and iron in Federally funded Construction Projects".

- 7.12.01 Right-of-Way Structure\Mailbox Support System: [No sample required.] {Re-submittal cycle, 5 years}
- 7.12.02 Right-of-Way Structure\Utility Enclosure: CDOT Standard Plan S-614-43, Sheet 8 of 10 Note 1 "Pull Boxes shall be verified by 3<sup>rd</sup> Party Nationally - Recognized Independent Testing Laboratory as meeting all test provisions of the ANSI /SCTE 77 specification for Underground Enclosure integrity, Tier 22 rating." [No sample required.] {Re-submittal cycle, 5 years}
- 7.12.03 Right-of-Way Structure\Fence, Non-Standard Coating: [No sample required.] {Re-submittal cycle, 5 years}
- 7.12.04 Right-of-Way Structure\Pole Base Hardware: [No sample required] {Re-submittal cycle, 5 years}



## ROADWAY SAFETY

**Note: BUY AMERICA documents must be submitted with Products using Steel and Iron - follow the link to the BUY AMERICA REQUIREMENTS, "for the use of domestic steel and iron in Federally funded Construction Projects".**

<https://www.codot.gov/business/designsupport/buy-america-requirements>

- 7.13.01 Roadway Safety \ Cable Barrier \ MASH 09 TL-3 or TL-4: Std. Spec. 606. COV required. Category and products mirror the CDOT Crash Cushion and End Treatment Selection Guide.  
[Installation required for evaluation]  
{Re-submittal cycle, 3 years with a Certificate of Verification additionally provided.}
- 7.13.02 Roadway Safety \ Guardrail W-Beam\ : Std. Spec. 606.
- 7.13.02.1 Guardrail End Treatment: Std. Spec. 606. [No sample required.] {Re-submittal cycle, 3 years with a Certificate of Verification additionally provided.}
- 7.13.02.2 Guardrail End Treatment, Special Application: Std. Spec. 606. [No sample required.] {Re-submittal cycle, 3 years with a Certificate of Verification additionally provided.}
- 7.13.02.3 Guardrail Synthetic Block-out: Std. Spec. 606. [No Sample required.] {Re-submittal cycle, 5 years}
- 7.13.03 Roadway Safety \ Crash Cushion\ : Category and products mirror the CDOT Crash Cushion and End Treatment Selection Guide. {Re-submittal cycle, 3 years with a Certificate of Verification additionally provided.}
- 7.13.03.1 Sand Barrel Array: Std. Spec. 614.
- 7.13.03.2 Guardrail Median Terminal: Std. Spec. 606.
- 7.13.03.3 Barrier End Treatment (Terminal): Std. Spec. 606.
- 7.13.03.4 Impact Attenuator, Standard, Permanent: Std. Spec. 614.
- 7.13.03.5 Impact Attenuator, Wide, Permanent: Std. Spec. 614.
- 7.13.03.6 Impact Attenuator, Low Maintenance, Permanent: Std. Spec. 614.



### SEALANT\BRIDGE

- 7.14.01 Sealant [Joint/Crack] \ Asphalt Plug Joint \ N/A: ASTM D 6297. Concrete blocks for testing of the sealants will be in accordance with ASTM D 1985 and CDOT's CP-L 4101-15. Submit on a per batch basis. Each batch will remain on the APL for two years from the CTR date. [No sample required.] {Re-submittal cycle, N/A}
- 7.14.02 Sealant [Joint/Crack] \ Elastomeric Concrete End Dam \ N/A: Std Spec. 518.06. [No sample required.] {Re-submittal cycle, 3 years}

### SEALANT\MAINTENANCE

- 7.14.03 Sealant [Joint/Crack] \ Mastic **Hot Applied** \ Black for Asphalt : **ASTM D8260-20** criteria to meet Type I, II or III. Include Application instructions, shelf life and pot life.

Sealant [Joint/Crack] \ Mastic Hot Applied \ Grey for Concrete : **ASTM D8260-20, Type I.** Include Application instructions, shelf life and pot life.

### SEALANT\ASPHALT PROGRAM

- 7.14.04 Sealant [Joint/Crack] \ Hot Poured, Joint/Crack: ASTM D 6690 Type II & Type IV, ASTM D 5078. Each batch will remain on the APL for two years from the CTR date. [No sample required.] {Re-submittal cycle, N/A}  
**NTPEP: Hot Mix Asphalt Crack Sealant (CS), retested every 3 years. Note: Since CDOT requires a CTR for every batch, NTPEP participation is for a comparative baseline.**

## **SEALANT/MAINTENANCE**

- 7.14.05 Sealant [Joint/Crack] \ Silicone, Joint\ : [No sample required.] {Re-submittal cycle, 3 years}  
NTPEP: Portland Cement Concrete Joint Sealants (JS), retested every 3 years.
- 7.14.05.1 Non-Sag: ASTM D 5893, Type NS.
- 7.14.05.2 Self-Leveling: ASTM D 5893, Type SL.
- 7.14.06 Sealant [Joint/Crack] \ Pre-Formed Joint Filler: [No Sample required.] {Re-submittal cycle, 4 years}
- 7.14.07 Sealant [Joint/Crack] \ Loop Detector Slot: A CTR with the required test values for tensile strength, tensile elongation, adhesion to cement, and adhesion to asphalt must be submitted. [No sample required.] {Re-submittal cycle, 4 years}

## **SOIL / GEOTECHNICAL**

- 7.15.01 Soil/Geotechnical \ Stabilization\ : Std. Spec. 206.02. [No sample required.] {Re-submittal cycle, 4 years}
- 7.15.02 Soil/Geotechnical \ Void Elimination\ : Std. Spec. 206.02. [No sample required.] {Re-submittal cycle, 4 years}

## **STEEL**

**Note: BUY AMERICA documents must be submitted with Products using Steel and Iron - follow the link to the 2020 Field Materials Manual\Contractor, Special Notice Section 4, BUY AMERICA REQUIREMENTS, "for the use of domestic steel and iron in Federally funded Construction Projects".**

- 7.16 Steel \ Reinforcing, Non-Standard\ : Certified Test Report/ Certificate of Compliance, Buy America documents. CDOT Standard Specifications 709.01 {Re-submittal cycle, 5 years}

## TRAFFIC CONTROL

- 7.17.01 **Traffic Control\Portable Changeable Message Sign\:** It must comply with the 2009 MUTCD, Section 6F.60. [No sample required.] {Re-submittal cycle, 5 years}  
NTPEP: Portable Changeable Message Sign (PCMS), no retest.
- 7.17.01.1 **Trailer Mount:**
- 7.17.01.2 **Vehicle Mount:**
- 7.17.02 **Traffic Control\Arrow Panel\:** It must comply with the 2009 MUTCD, Section 6F.61. [No sample required.] {Re-submittal cycle, 5 years} NTPEP: Flashing Arrow Panels (FAP), no retest.
- 7.17.02.1 **Type A:**
- 7.17.02.2 **Type B:**
- 7.17.02.3 **Type C:**
- 7.17.02.4 **Type D:**
- 7.17.03 **Traffic Control\Speed Notification\:** [No sample required.] {Re-submittal cycle, 5 years}
- 7.17.03.1 **Radar/Message Sign:**
- 7.17.03.2 **Speed Display Trailer:**
- 7.17.03.3 **Speed Display Device:**
- 7.17.04 **Traffic Control\ Traffic Control Enhancement\:** Must comply with the 2009 MUTCD, Section 6F. [No sample required.] {Re-submittal cycle, 5 years}
- 7.17.04.1 **AFAD: (Automated Flagger Assistance Device), 6F.04**
- 7.17.04.2 **Flashing Beacon: 4L**
- 7.17.04.3 **Warning Light: 6F.83**
- 7.17.04.4 **Raised Island, Temporary: 6F.75**





- 7.17.04.5 Rumble Strip, Temporary: 6F.87; CDOT Standard Plan S-630-5
- 7.17.04.6 Glare Screen: 6F.88
  
- 7.17.05 **Traffic Control\Channelizing Device\:** Must comply with the 2009 MUTCD, Section 6F. **[No sample required.] {Re-submittal cycle, 5 years}**
  - 7.17.05.1 Cone: 6F.64
  - 7.17.05.2 Tubular Marker: 6F.65
  - 7.17.05.3 Vertical Panel: 6F.66
  - 7.17.05.4 Drum: 6F.67; **NTPEP: Temporary Traffic Control Devices (TTCD), no retest.**
  - 7.17.05.5 Barricade, Type 1: 2009 MUTCD 6F.68
  - 7.17.05.6 Barricade, Type 2: 2009 MUTCD 6F.68
  - 7.17.05.7 Barricade, Type 3: 2009 MUTCD 6F.68
  - 7.17.05.8 Direction Indicator Barricade: 2009 MUTCD 6F.69
  - 7.17.05.9 Longitudinal Channelizing Device: 2009 MUTCD 6F.71
  - 7.17.05.10 Opposing Traffic Lane Divider: 2009 MUTCD 6F.76
- 7.17.06 **Traffic Control\Delineator\:** Must comply with the most recent MUTCD, Section 6F.65. **{Re-submittal cycle, 5 years} NTPEP: Temporary Traffic Control Devices (TTCD), no retest.**
  - 7.17.06.1 Flexible Post: **[Sample as requested]**
  - 7.17.06.2 Flexible, Multiple Hit Post: **[Sample as requested]**
  - 7.17.06.3 Guardrail Mount: **[Sample as requested]**
- 7.17.07 **Traffic Control\Reflective Element:** **[Sample as requested]**
  - 7.17.07.1 Barrier Marker: **[Sample as requested]**
  - 7.17.07.2 Guardrail & Post Marker: **[Sample as requested]**
  - 7.17.07.3 Delineator Post Marker: **[Sample as requested]**
  - 7.17.07.4 Linear Reflector Strip: **[Sample as requested]**

- 7.17.08 **Traffic Control\Post Anchoring:** [No sample required.] {Re-submittal cycle, 5 years}
- 7.17.08.1 Mechanical System:
- 7.17.08.2 Polyurethane Foam, Backfill:
- 7.17.09 **Traffic Control\Traffic Barrier, Temporary\:** Must comply with the 2009 MUTCD, 6F.85. Category and products mirror the CDOT Crash Cushion and End Treatment Selection Guide. [No sample required.] {Re-submittal cycle, 5 years with a Certificate of Verification additionally provided.}
- 7.17.09.01 Barrier, Non-Concrete:
- 7.17.09.02 Barrier Gate: Subject Matter Expert Evaluation
- 7.17.09.03 Concrete Pre-Cast [Type 7 MASH]: CDOT Standard Plans M-606-14
- 7.17.09.04 Concrete Pre-Cast [Type 7 Design Variation]: CDOT Standard Plans M-606-14
- 7.17.10 **Traffic Control\Crash Cushion, Temporary\:** Category and products mirror the CDOT Crash Cushion and End Treatment Selection Guide. [No sample required.] {Re-submittal cycle, 5 years with a Certificate of Verification additionally provided.}
- 7.17.10.1 Impact Attenuator (Temp. - Constr.): Must comply with the 2009 MUTCD, 6F.86.
- 7.17.10.2 Truck Mounted Attenuator: (TMA) Subject Matter Expert Evaluation
- 7.17.10.3 Trailer Mounted Attenuator: (TMA) Subject Matter Expert Evaluation
- 7.17.11 **Traffic Control\Sign Stand:** [No sample required.] {Re-submittal cycle, 5 years}
- 7.17.12 **Traffic Control\Sign Sheeting\:** ASTM D 4956, Type IV thru Type XI. [No Samples required.] {Re-submittal cycle, 5 years} NTPEP: Sign Sheeting Materials / Roll Up Signs (SSM/RUP) retested every 7 years.
- 7.17.13 **Traffic Control\Pavement Marking Material\:** [No sample required.] {Re-submittal cycle, 5 years} NTPEP: Pavement Marking Materials (PMM), retested every 5 years for the cold weather state test decks.
- 7.17.14 **Traffic Control\Lighting[Light Standards]\Conduit, Pull Boxes, Misc Wiring Items.**CDOT Standards and Specifications 613.01.

## WATERPROOFING

- 7.18.01 **Waterproofing\PCCP Sealer:** Std. Spec. 515  
[No sample required.] {Re-submittal cycle, 4 years}
- 7.18.02 **Waterproofing\ Elastomeric Membrane\:**
- 7.18.02.1 Single Component, Hot Applied: Std. Spec. 705.09 and ASTM D 6690 Type II. Each batch will remain on the APL for two years from the CTR date.  
[No sample required.] {Re-submittal cycle, N/A}
- 7.18.02.2 **Non-Asphaltic:** No current Specification

## 8. REVIEW AND EVALUATION TIME REQUIREMENTS

- 8.1 To correlate your expectations with CDOT realities it is important to realize that in only a quarter of the categories will a product be evaluated in less than three months. Most products will require one to two years for evaluation due to the lack of available resources or a requirement for installation on a test deck. If CDOT specifications need to be rewritten or created this process can take three years. If the product is being considered as an Experimental Feature per the Procedural Directive then there will be a need for a CDOT evaluation test deck or there will be a need to wait until a NTPEP laboratory and field test deck has been completed in which case the product's evaluation will be completed when all relevant information is available.
- 8.2 CDOT Communication Letters to Manufacturers: The following types of letters were developed to be the formal communication between CDOT and the Manufacturers through the evaluation process.
- Initial Response
  - Missing Documentation
  - Rejected for APL
  - Bridge, Non-APL
  - Experimental Features
  - Forwarded to Evaluator
  - Rejection of Product
  - Acceptance of Product

Processing these letters has been suspended at this time due to the volume of products being processed. Documentation of accepted products can be obtained through the

CDOT Approved Product Evaluation 03-15-2024 Notice to Manufacturer's Handbook  
APL Search feature and then printing the applicable page. If a more formal document is required then e-mail your request to the CDOT PEC.

## 9. APL SEARCH AND PRODUCT COMMENTS

<https://www.codot.gov/business/apl>

- 9.1 Within the *APL Search* tab there are four search options: Category, Manufacturers Name, Product Name, and Product Number.
  - 9.1.1 Regardless of which option is selected, the customer will see displayed: Form 595 (the APL Reference Number), Product Name, Material Code, Manufacturer or Categorization (depending on the type of search), and the Producer Supplier Code.
- 9.2 By clicking on a Form 595 reference number, page 1 of the CDOT Form 595, Pre-Approved Product Evaluation Request & Summary Form, will be displayed. This is beneficial information for the Department's design and project personnel, the contractors, and even the manufacturers.
- 9.3 By clicking on a manufacturer's name all approved products from that particular manufacturer will be displayed.
- 9.4 Product Comments:
  - 9.4.1 A product comments column has been temporarily removed until Site Manager Materials has been fully operational. This section allows customers, such as the Project Engineers, Contractors, and Subcontractors to "Add" their own project experiences with regard to the selected product. A data base of provided comments is not yet available on the website.
  - 9.4.2 Only those individuals who are verified as being on specific CDOT projects will be allowed to add product comments.
- 9.5 Product removal from the CDOT Approved Products List (APL).
  - 9.5.1 Products may be removed from the CDOT APL based on unsatisfactory performance. Some products may fail on construction projects based on the actions of the contractors / subcontractors, and this will be evaluated; however, the Manufacturer has a responsibility to ensure that the quality they purport can be translated from the laboratory to the field. Stating a product's limitations is as important as stating its capabilities.

9.5.2 Products may be removed immediately from the CDOT APL if the current product being submitted on the project is not the same product submitted for evaluation. If any information on the CDOT Form 595 has changed then CDOT's Product Evaluation Coordinator (PEC) must be informed immediately as per Subsection 1.3 of this document. Failure to communicate these changes, in writing, with reference to the APL Reference No., will cause the product(s) or possibly all of the Manufacturer's products to be removed from CDOT's APL.

9.5.3 The protocol for addressing an unacceptable product is the following:  
Has the PEC been informed in writing via an attached document to an e-mail?  
Specifically how has the product failed from CDOT specifications or expectations?  
The manufacturer's product representative or the designated manufacturer's representative will be contacted prior to the product being removed from actively being displayed on the APL.

A detailed explanation will be requested from the manufacturer.

A new CTR from an independent lab may be required prior to the product being considered for reinstatement.

Does the manufacturer seem to have adequate QC safeguards in place to prevent a repeat of a failed product or batch / lot?

## 10. DISCLAIMER

10.1 The Colorado Department of Transportation (CDOT) is not obligated to any manufacturer to use any of their products listed in the Approved Products List (APL). The APL simply documents that the listed products have been reviewed, possibly tested, and evaluated against CDOT standards, and were found to be acceptable to be used on CDOT projects. Acceptance is based on product quality; however, price or availability may be the determining factor by a contractor or sub-contractor on the CDOT project.

The product shall be removed from the APL if Product Performance comments indicate that field performance is unacceptable to CDOT quality standards or if the product varies from the data as originally submitted. Additional disclaimer information may be found within the APL web site.

The CDOT Approved Products List should not be construed as an endorsement of any particular product or manufacturer. Every effort is made to ensure that choice exist within an APL category; however, the CDOT PEC will not solicit product submittals.

CDOT is opposed to the use of the CDOT APL web site for product advertising or marketing purposes. Discovery of this being done will necessitate an immediate letter from CDOT to cease and desist.