

# Connecticut Department of Transportation

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## Qualified Product List

October 1, 2025

Connecticut Department of Transportation  
Bureau of Engineering and Construction  
Division of Facilities & Transit  
Engineering Services

N/A

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Product Evaluation Committee Secretary

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## **INTRODUCTION**

This report has been developed as a means for determining what products, suppliers, manufacturers, equipment and methodologies may be used on CTDOT construction projects. The items referenced have met the approval of CTDOT in one of the following ways:

- They have been found acceptable for use by the Product Evaluation Committee
- They have been used successfully since before the establishment of a formal review process.
- They currently satisfy CTDOT specifications.

It should be understood that this document is open to refinement and will be under close scrutiny to ensure that the information contained herein is complete and accurate. Over the years, many items will be added and deleted.

Many products that may be used in CTDOT will not be represented in this document because they conform to a generic specification, and the approval procedure is in accordance with the standard specifications.

Helpful links:

- [CTDOT's Product Evaluation Website \( Policy and Procedure for New Product Evaluation\)](#)
- [AASHTO Product Evaluation and Audit Solutions - Technical Service Program](#)
- [AASHTO Product Evaluation and Audit Solutions - DATAMINE](#)

<b>If you have any questions, inquires or suggestions, please contact:</b>	<b><u>Technical Contact:</u></b>  <b>E-mail:</b> DOT.NewProducts@CT.gov
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NOTE: Current Qualified Products List; is available through CTDOT's Website by selecting "Doing Business with CTDOT", a link is provided from the "New product evaluation policy" option located in the right hand column of items as you scroll down the web page, link to current [CTDOT Qualified Product List.pdf](#)

## **QUALIFIED PRODUCT LISTS**

The following pages contain lists, which are directly referenced in either the standard specifications or in special provisions as Qualified Products Lists (QPL). These lists will be updated annually, and no product may be used in these categories unless it is shown on an appropriate list.

**Detectable Warning – (ADA Truncated Dome Detectable Warning Systems)**

**Specification:** Standard Specification Section 9.21

**Prequalification Criteria:** AMS-STD-595 Color #22144

<b>Manufacturer/Supplier</b>	<b>Product Brand Name</b>
Access Tile, a SureWrx Brand 325 Corporate Drive Elgin, IL 60123 Tel: 844-697-2920 Website: <a href="https://accesstile.com/">https://accesstile.com/</a>	Access Tile Detectable Warning Tiles
ADA Solutions, Div. of SureWrx USA 149 South Cucumber Street Jefferson, OH 44047 Telephone: 800-372-0519 Website: <a href="http://www.adatile.com">www.adatile.com</a>	Detectable Warning Tile: Iron Dome Cast-In-Place Tactile Surface Applied Tactile (Retrofit) Cast-In-Place Replaceable Tactile
Armor-Tile, a SureWrx Brand 325 Corporate Drive Elgin, IL 60123 Tel: 844-697-2920 Website: <a href="https://armor-tile.com/">https://armor-tile.com/</a>	Armor-Tile Tactile System: Cast-In-Place System Surface Applied System (Retrofit)
Detectable Warning Systems, Div. of Mar-Bal, Inc. 3205 Randall Parkway, Ste 215 Wilmington, NC 28403 Telephone: 866-999-7452 Website: <a href="http://www.detectable-warning.com">www.detectable-warning.com</a>	AlertTile - Surfaced Applied AlertCast – Cast in- Place

[ Table Last Revised 9/24/24]

**Continued on Next Page:**

## Qualified Product Lists – Continued

### Detectable Warning Products – Continued:

Manufacturer/Supplier	Product Brand Name
EJ USA, Inc. 1125 Pearl Street Brockton, MA 02301 Telephone: 508-586-3130 Website: <a href="http://www.ejco.com">www.ejco.com</a>	DURALAST Detectable Warning Plates Cast Iron Uncoated Natural Finish
TufTile Inc. 1200 Flex Court Lake Zurich, IL 60047 Telephone: 888-960-8897 Website: <a href="http://www.tuftile.com">www.tuftile.com</a>	Cast Iron Wet Set (cast-in-place) 10 GA Galvanized Powder Coated Steel (wet-set) Polymer Wet-Set (cast-in-place) Polymer Surface-Applied

[ Table Last Revised 8/22/23 ]

**Erosion Control Matting**

**SPECIFICATION:** Standard Specification Section 9.50 & M.13.09

**PREQUALIFICATION CRITERIA:** See below.

In general, organic materials are cheaper than synthetics, will photo-degrade after a period of time leaving a naturally vegetated area, and are adequate for channels that are expected to carry storm water flows not exceeding 95.76 Pa shear stress. Synthetic materials generally do not photo-degrade and often remain as a permanent element within a drainage channel; although more expensive, synthetic materials are generally best for critical channels which will carry higher flows or velocities of storm water runoff.

**Minimum Performance Standards**

Erosion control matting is evaluated for use in eight Types, grouped in two Classes. In order for a product to be placed upon CTDOT's Qualified Products List, it must meet the following Minimum Performance Standards.

**Class 1: Slope Protection** – Classification is based upon steepness of slope and soil type. The purpose is to protect the seedbed from loss of sediment and promote the establishment of a warm season, perennial vegetative cover.

- Type A. Slopes 3:1 or Flatter – Clay Soils
- Type B. Slopes 3:1 or Flatter – Sandy Soils
- Type C. Slopes Steeper than 3:1 – Clay Soils
- Type D. Slopes Steeper than 3:1 – Sandy Soils

**Erosion Control Matting - Continued:**

**Minimum Acceptable Vegetation Density Standards<sup>1</sup>**

	<u>Clay Soils</u>	<u>Sandy Soils</u>
Slopes 3:1 or Flatter	80%	70%
Slopes Steeper than 3:1	80%	70%

**Minimum Acceptable Sediment Loss Standards (kg/10 m<sup>2</sup>)<sup>1</sup>**

	<u>Clay Soils</u>	<u>Sandy Soils</u>
Slopes 3:1 or Flatter	0.35	12.00
Slopes Steeper than 3:1	0.35	27.00

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**Erosion Control Matting - Continued:**

**Class 2: Flexible Channel Liner Protection** – Classification is based upon the permissible shear stress<sup>2</sup> ( $T_p$ ) present. The purpose is to protect the geometry of the channel from loss of sediment, and to promote the establishment of a warm-season, perennial vegetative cover.

Type E. Permissible shear stress:  $<25$  Pa

Type F. Permissible shear stress: 25 to  $<50$  Pa

Type G. Permissible shear stress: 50 to  $<100$  Pa

Type H. Permissible shear stress:  $\geq 100$  Pa

$T_p$ , the permissible shear stress, indicates the force required to initiate the movement of the lining material.

**Minimum Acceptable Vegetation Density Standards<sup>1</sup>**

70%

**Minimum Acceptable Sediment Loss Standards<sup>1</sup>**

	<u>Average Soil Deformation (cm)</u>
Shear Stress 1 to 100 Pa	1.15
Shear Stress $> 100$ Pa	1.00

It should be recognized that those products listed by brand or trade name on the Qualified Products List have demonstrated their ability to meet or exceed CTDOT's minimum Performance standards. It is the Contractor's option as to which product he or she actually uses on a project, provided that the product used is on the Qualified Products List for that application.

It will be the District's responsibility to verify that the Erosion Control Matting proposed by the Contractor is, in fact, listed as an acceptable product on the Qualified Products List.

It should also be recognized that the decision to undergo testing for possible approval rests solely with the manufacturers or distributors of Erosion Control Matting. CTDOT has created a fair but rigorous testing process for Erosion Control Matting. CTDOT does not choose or stipulate which products are to be tested.

CTDOT's position is that, while we encourage the evaluation of new products for possible use in our operations, we cannot accept a product that has not been tested and approved through CTDOT's evaluation process.

**Continued on Next Page:**

**Erosion Control Matting – Continued**

As new products are tested on an annual basis, those meeting our requirements will be added to the Qualified Products List. If, by the time actual field installation of Erosion Control Matting commences on a project, new products have been added to the Qualified Products List, the Contractor may elect to use these newly approved products even though they were not an “approved” product at the time bids were received on the project.

<sup>1</sup> Final Performance Analysis – 1995 Evaluation Cycle, Texas DOT/Texas Transportation Institute, Hydraulics and Erosion Control Laboratory, February 1996.

<sup>2</sup> Shear Stress ranges based on values published in FHWA Hydraulic Engineering Circular No. 15 (HEC-15), Design of Roadside Channels with Flexible Linings, Publication No. FHWA-ZP-87-7, April 19

**Continued on Next Page:**

## Qualified Product Lists – Continued

### Erosion Control Matting - Continued:

		Class 1: Slope Protection *				Class 2: Flexible Channel Type Protection			
Manufacturer/Supplier		Type A	Type B	Type C	Type D	Type E*	Type F*	Type G*	Type H**
American Excelsior Company									
	AEC Premier Coconut	X	X	X	X		X		
	AEC Premier Straw/Coconut	X	X	X	X	X	X		
	AEC Premier StrawDoubleNet	X	X	X	X	X	X		
	AEC Premier StrawSingleNet	X	X						
	Bindex BFM	X	X	X	X				
	Curlex Enforcer					X	X	X	X
	Curlex I	X	X	X	X				
	Curlex I CL	X	X	X	X				
	Curlex II	X			X	X	X		
	Curlex II CL		X		X	X	X		
	Curlex III					X	X		
	Curlex NetFree	X	X		X				
	Recyclex					X	X	X	X
	Recyclex TRM-V					X	X	X	X
Belton Industries									
	Geocoir/DeKoWe 700				X				
	Geocoir/DeKoWe 900				X				
MKB Company									
	ETRS-2-BN	X	X	X	X	X			
Enviroscape ECM									
	C4000			X	X		X		
	C4000BD			X	X		X		
	S1000	X	X			X			
	S1000BD	X	X			X			
	S2000	X	X			X			

\* Products listed in this category are generally temporary (bio- or photo-degradable). Exceptions are noted.

[ Table last revised 7/17/24 ]

\*\* Products listed in this category are generally permanent (non-bio- or non-photo-degradable). Exceptions are noted.

TYPE E – Generally includes, but is not limited to, Woven Paper Net, Jute Net.

TYPE F – Generally includes, but is not limited to, Fiberglass Roving (single or double).

TYPE G – Generally includes, but is not limited to, Straw with Net, Curled Wood Mat.

TYPE H – Generally includes, but is not limited to, Synthetic Net.

## Qualified Product Lists – Continued

### Erosion Control Matting - Continued:

		Class 1: Slope Protection *				Class 2: Flexible Channel Type Protection			
Manufacturer/Supplier		Type A	Type B	Type C	Type D	Type E*	Type F*	Type G*	Type H**
Enviroscape ECM – continued									
	S2000BD	X	X			X			
	SC3000	X	X			X			
	SC3000BD	X	X			X			
Erosion Control Blankets									
	P42					X	X	X	X
	S31	X	X						
	S31 UVD	X	X						
	S32			X	X	X	X		
	S32 UVD			X	X	X	X		
Profile Products LLC									
	Futerra Mat	X	X						
US Erosion Control Products									
	US-1S							X	
	US-2C							X	
	US-2S							X	
Western Excelsior Corporation.									
	Excel PP5-8					X	X	X	
	Excel PP5-10							X	X
	Excel PP5-12							X	X
	Excel R-1	X	X						
	Excel S-2	X	X	X	X	X			
	Excel SD-3					X	X		
	Excel SR-1	X	X						
	Excel SS-2	X	X	X	X				

\* Products listed in this category are generally temporary (bio- or photo-degradable). Exceptions are noted.

[ Table last revised 10/30/23]

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TYPE E – Generally includes, but is not limited to, Woven Paper Net, Jute Net.

TYPE F – Generally includes, but is not limited to, Fiberglass Roving (single or double).

TYPE G – Generally includes, but is not limited to, Straw with Net, Curled Wood Mat.

TYPE H – Generally includes, but is not limited to, Synthetic Net.

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## Qualified Product Lists – Continued

### Erosion Control Matting - Continued:

		Class 1: Slope Protection *				Class 2: Flexible Channel Type Protection			
Manufacturer/Supplier		Type A	Type B	Type C	Type D	Type E*	Type F*	Type G*	Type H**
Western Green									
	EC – 7Y		X		X				
	EC – 9Y		X		X				
	ECC - 3			X	X	X	X	X	X
	ECP - 2 T-RECS					X	X	X	X
	ECP - 3					X	X	X	X
	ECSC - 3					X	X	X	X
	ECX - 1	X	X	X	X				
	ECX - 2	X	X	X	X				
	Excel CC-4			X	X	X	X	X	X
	Excel CC-4 All Natural			X	X	X	X	X	X
	Excel CS-3	X	X	X	X				
	Excel CS-3 All Natural	X	X	X	X				
	Excel ECSC-2 Natural	X	X	X	X				
	Excel ECSC-3 All Natural	X	X	X	X				
	Excel SR-1	X	X						
	Excel SR-1 All Natural	X	X						
	Excel SR-1 Rapid Go	X	X						
	Excel SS-2	X	X	X	X				
	Excel SS-2 All Natural	X	X	X	X				
	Excel SS-2 Rapid Go	X	X	X	X				
	PP5 - 10 oz					X	X	X	X
	PP5 - 12 oz			X	X				

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TYPE E – Generally includes, but is not limited to, Woven Paper Net, Jute Net.

TYPE F – Generally includes, but is not limited to, Fiberglass Roving (single or double).

TYPE G – Generally includes, but is not limited to, Straw with Net, Curled Wood Mat.

TYPE H – Generally includes, but is not limited to, Synthetic Net.

[ Table last revised 10/30/23 ]

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## Qualified Product Lists – Continued

### Erosion Control Matting - Continued:

		Class 1: Slope Protection *				Class 2: Flexible Channel Type Protection			
Manufacturer/Supplier		Type A	Type B	Type C	Type D	Type E*	Type F*	Type G*	Type H**
North American Green ( Part of Western Green)									
	C125				X	X			
	C125BN				X	X			
	C350 Biodegradable								X
	P300					X	X	X	X
	S150	X	X	X	X				
	S150BN	X	X	X	X				
	S75	X	X						
	S75BN	X	X						
	SC150	X	X	X	X				
	SC150BN	X	X	X	X				

\* Products listed in this category are generally temporary (bio- or photo-degradable). Exceptions are noted.

[Table last revised 10/30/23 ]

\*\* Products listed in this category are generally permanent (non-bio- or non-photo-degradable). Exceptions are noted.

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TYPE F – Generally includes, but is not limited to, Fiberglass Roving (single or double).

TYPE G – Generally includes, but is not limited to, Straw with Net, Curled Wood Mat.

TYPE H – Generally includes, but is not limited to, Synthetic Net.

**Continued on Next Page**

## Qualified Product Lists – Continued

### Erosion Control Matting - Continued:

Manufacturer/Supplier	Address	Website	Email	Phone Number
American Excelsior Company	831 Pioneer Avenue	<a href="http://americanexcelsior.com">americanexcelsior.com</a>	<a href="mailto:csultz@americanexcelsior.com">csultz@americanexcelsior.com</a>	715-475-9063
	Rice Lake, WI 54868			
Belton Industries	8613 Roswell Rd			
	Atlanta, GA 30350			
MKB Company	83 Central Penn Ave	<a href="http://www.mkbcompany.com">www.mkbcompany.com</a>	<a href="mailto:bfaucette@mkbcompany.com">bfaucette@mkbcompany.com</a>	1-888-578-0777
	Belleville, PA 17004			
Enviroscape ECM	300 S Chestnut St	<a href="http://strawblanket.com">strawblanket.com</a>	<a href="mailto:info@strawblanket.com">info@strawblanket.com</a>	1-888-550-1999
	Deshler, OH 43516			
Erosion Control Blankets	P.O. Box 69			
	Riverton, MB ROC2RO			
North American Green ( Part of Western Green)	14649 Highway 41			
	Evansville, IN 47711			
Profile Products LLC	750 Lake Cook Rd #440	<a href="http://www.profileevs.com">www.profileevs.com</a>	<a href="mailto:ldem@profileproducts.com">ldem@profileproducts.com</a>	808-312-7671
	Buffalo Grove, IL 60089			
US Erosion Control Products	1034 Albany Avenue W.			
	Pearson, GA 31642			
Western Excelsior Corporation	4609 E Boonville-New Harmony			
	Evansville, IN 47725			
Western Green	443 Bricker Rd.	<a href="http://www.westerngreen.com">www.westerngreen.com</a>		
	Bernville, PA 19506			

[ Table last revised 10/30/23

**Geotextiles**

**Specification:** Standard Specification, Sections 2.11, 2.19, 7.51, 7.55 and M.08.01-19

**Classifications:** For geotextiles used for; permanent erosion control, sediment control / temporary silt fence, separation, soil stabilization and subsurface drainage applications, the Geotextile Class 1 is specified for more severe or harsh installation conditions where there is a greater potential for geotextile damage, and Class 2 is specified for less severe conditions. The severity of the installation conditions for the application generally dictates the required geotextile class. As a general guideline, the default geotextile selection is appropriate for conditions of equal or less severity. CTDOT does not allow use of Class 3 geotextiles for any application.

**PREAPPROVAL CRITERIA:** Products shall be evaluated using the AASHTO Product Evaluation & Audit Solutions (formerly NTPEP) for Geotextiles and Geosynthetics testing program data and the product's designated category application(s) will be determined based on the parameters stated in AASHTO M288 (version 2021 threshold values). Product test data shall be reevaluated every 3 years based on the NTPEP work plan for both manufacturers and private labelers.

The following list denotes those geotextiles that are qualified for use on CTDOT projects. The categories listed are in accordance with the latest AASHTO M 288 specification. Geotextile selection shall be based on the following information and the applicable design criteria.

Materials used in the manufacture of geotextiles shall be in accordance with the requirements of AASHTO M 288.

**Permanent Erosion Control:** Geotextiles in this category shall be used between the energy absorbing armor systems (such as riprap) and the in-situ soil to prevent soil loss resulting from scour, and to prevent hydraulic uplift pressures causing instability of the permanent erosion control system.

Woven slit film geotextiles (i.e. geotextiles made from yarns of a flat, tape-like character) are not allowed in this application.

The default class for woven monofilament geotextile used for permanent erosion control is Class 2. All other geotextile for permanent erosion control shall be Class 1.

**Sediment Control / Temporary Silt Fence:** Geotextiles in this category are designed to remove suspended soil from overland water flow. The geotextile used for temporary silt fence is supported between posts.

**Separation:** Geotextile in this category shall be used to prevent mixing of subgrade soil and aggregate cover material (such as subbase, base, select embankment, etc.) The geotextile in this application may also be applied to situations other than beneath the pavements where separation of two dissimilar materials is required, but where water seepage through the geotextile is not a critical function. It is appropriate for unsaturated subgrade soils.

**Continued on Next Page:**

**Geotextile - Continued:**

**Soil Stabilization:** Geotextile in this category shall be used in wet, saturated conditions to provide separation and filtration where water seepage through the geotextile is a critical function. It can also provide reinforcement. The soil stabilization application is appropriate for soils that are saturated due to a high groundwater table or prolonged periods of wet weather. The geotextiles in this application are not appropriate for embankment reinforcement where stress conditions may cause global subgrade foundation or stability failure.

**Subsurface Drainage / Underdrain:** Geotextiles in this category shall be used to allow the long-term passage of water into a subsurface drain system while retaining in-situ soil.

Woven slit film geotextiles (i.e. geotextiles made from yarns of flat, tape-like character) are not allowed for this application.

The default geotextile class for subsurface drainage is Class 2. Class 1 geotextile is specified for more severe or harsh installation conditions where there is greater potential for geotextile damage.

## Qualified Product Lists – Continued

### Advanced Drainage Systems, Inc.

	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
2 x 2	X								X	X	X	X	X	X				X				PRIVATE LABEL
104F						X	X	X	X	X												PRIVATE LABEL
200W									X	X		X										PRIVATE LABEL
250W									X	X	X	X	X									PRIVATE LABEL
315W									X	X	X	X	X									PRIVATE LABEL
351T									X	X												PRIVATE LABEL
370HP									X	X												PRIVATE LABEL
401T									X													PRIVATE LABEL
451T									X													PRIVATE LABEL
601T									X	X		X						X	X	X	X	PRIVATE LABEL
701T	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
801T	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
3302WP									X	X												PRIVATE LABEL

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 1/21/25]

#### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Carthage Mills																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
Carthage 6%						X	X	X	X	X												PRIVATE LABEL
FX-11									X	X												PRIVATE LABEL
FX-35HS									X													PRIVATE LABEL
FX-40HS									X													PRIVATE LABEL
FX-55									X	X												PRIVATE LABEL
FX-60HS									X	X		X						X	X	X	X	PRIVATE LABEL
FX-66									X	X	X	X	X									PRIVATE LABEL
FX-80HS	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 2/21/25]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Core and Main Geosynthetics																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
ES:																						
70SF									X													PRIVATE LABEL
100SF									X	X												PRIVATE LABEL
200W-US									X	X												PRIVATE LABEL
200W									X	X												PRIVATE LABEL
250W-US									X	X		X										PRIVATE LABEL
250W									X	X		X										PRIVATE LABEL
315W-US									X	X	X	X										PRIVATE LABEL
315W									X	X	X	X										PRIVATE LABEL
350N-US									X													PRIVATE LABEL
370HP-US									X													PRIVATE LABEL
400N-US									X													PRIVATE LABEL
450N-US									X													PRIVATE LABEL
600N-US									X	X		X						X	X	X	X	PRIVATE LABEL
700N-US									X	X		X						X	X	X	X	PRIVATE LABEL
800N-US	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
1000N-US	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
2199M-US						X	X	X	X	X												PRIVATE LABEL
2 x 2HP-US									X	X	X	X										PRIVATE LABEL

**Note:** If **product name** shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 2/25/25]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

### Ferguson Waterworks

	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
HSP2N									X	X		X										PRIVATE LABEL
*LS100N									X													PRIVATE LABEL
*LS125N									X	X												PRIVATE LABEL
*LS140N									X	X												PRIVATE LABEL
M100N						X	X	X	X	X												PRIVATE LABEL
M400N					X				X	X	X	X	X	X				X				PRIVATE LABEL
N035N									X													PRIVATE LABEL
N045N									X													PRIVATE LABEL
N060N									X	X		X						X	X	X	X	PRIVATE LABEL
N070N									X	X		X						X	X	X	X	PRIVATE LABEL
N080N	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
N100N	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
N120N	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
S200N									X	X												PRIVATE LABEL
S250N									X	X		X										PRIVATE LABEL
S300N									X	X	X	X	X									PRIVATE LABEL

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance. If product name begins with \*[Product Name] is typically used for temporary purposes ( silt fence fabric, etc) and not incorporated into the finished product. [Table Last Revised on 1/10/25]

#### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

### Hanes GEO Components

	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
Terratex:																						
EP						X	X	X	X	X												PRIVATE LABEL
HD									X	X	X	X	X									PRIVATE LABEL
N04									X													PRIVATE LABEL
N08	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
S04									X	X												PRIVATE LABEL
SC-90									X	X												PRIVATE LABEL
SD									X													PRIVATE LABEL
SF-D									X	X												PRIVATE LABEL

**Note:** If **product name** shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 9/4/24]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

NCIF Geosynthetics																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
Woven Geotextile Fabric:																						
W315									X	X	X	X	X									China
W200									X	X												China
SF100									X	X												China

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 9/4/24]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Skaps Industries																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
FG22HF	X								X	X	X	X	X	X				X				Clarksville, GA
FG33									X	X	X	X										Clarksville, GA
FG57									X	X	X	X										Clarksville, GA
GE112	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Athens, GA
GT110	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Athens, GA
GT112	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Athens, GA
GT116	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Athens, GA
GT135									X													Athens, GA
GT140									X													Athens, GA
GT142									X													Athens, GA
GT170									X	X		X						X	X		X	Athens, GA
GT180	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Athens, GA
M330									X	X	X	X										Alto, GA
M405					X				X	X	X	X	X	X				X				Alto, GA
M440									X	X	X	X										India
M706						X		X	X	X												Alto, GA
MT4050	X								X	X	X	X	X	X				X				India
SW200									X	X												India
SW315									X	X	X	X	X									India
W100									X	X												India

N **Note:** If **product name** shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 1/10/25]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Solenio Textiles Inc																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
TX-70									X													Canada
TX-90									X	X												Canada
TX-110									X	X		X						X	X	X	X	Canada
TX-170									X	X		X						X	X	X	X	Canada
TX-200	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Canada

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 9/4/24]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Solmax ( Formerly TenCate Geosynthetics)																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
Mirafi:																						
140N									X													**
140NC									X													**
140NL									X													Pendergrass, GA
170N									X	X		X						X	X	X	X	**
180N	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	**
500X									X	X												PRIVATE LABEL
550X									X	X		X										PRIVATE LABEL
600X									X	X	X	X	X									PRIVATE LABEL
FW404					X				X	X	X	X	X	X				X				Comelia. GA
FW500								X	X	X	X	X	X				X				X	Comelia. GA
FW700						X	X	X	X	X												Comelia. GA
HP370									X	X		X										Comelia. GA

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 10/1/25]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

**\*\* Pendergrass, GA and/or Ringgold, GA**

## Qualified Product Lists – Continued

Solmax ( Formerly Propex Operating Company)																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
GeoTex:																						
102F	X								X	X	X	X	X	X				X				PRIVATE LABEL
104F						X	X	X	X	X												PRIVATE LABEL
200ST									X	X												PRIVATE LABEL
315ST									X	X	X	X	X									PRIVATE LABEL
351									X													Ringgold, GA
401									X													Ringgold, GA
451									X													Ringgold, GA
501									X	X												Ringgold, GA
601									X	X		X						X	X	X	X	Ringgold, GA
701									X	X		X						X	X	X	X	Ringgold, GA
801	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Ringgold, GA
1071	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Ringgold, GA
1291	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Ringgold, GA
2130									X	X												PRIVATE LABEL
2 x 2HF									X	X		X										PRIVATE LABEL

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 9/4/24]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

US Fabrics Inc.																					Plant Location	
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	
US 90NW									X													PRIVATE LABEL
US100NW									X													PRIVATE LABEL
US120NW									X													PRIVATE LABEL
US180NW									X	X		X						X	X	X	X	PRIVATE LABEL
US 200									X	X												PRIVATE LABEL
US205NW	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	PRIVATE LABEL
US230					X				X	X	X	X	X	X				X				PRIVATE LABEL
US315									X	X	X	X	X									PRIVATE LABEL
US670								X	X	X												PRIVATE LABEL

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 1/10/25]

### \* Soil Table

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

## Qualified Product Lists – Continued

Willacoochee Industrial Fabrics																						
	Permanent Erosion Control								Sediment Control (Temporary Application)		Separation		Soil Stabilization	Subsurface Drainage								
	Class 1				Class 2				Supported Silt Fence	Unsupported Silt Fence	Class 1	Class 2	Class 1	Class 1				Class 2				
*Soil Type	A	B	C	D	A	B	C	D	N/A	N/A	N/A	N/A		A	B	C	D	A	B	C	D	Plant Location
WINFAB:																						
77SF									X													N/A
105SF									X	X												N/A
200W-USA									X	X												Nashville, GA
200W									X	X												N/A
315W-USA									X	X	X	X	X									Nashville, GA
315W									X	X	X	X	X									N/A
400N-USA									X													Nashville, GA
400N									X													N/A
600N-USA									X	X		X						X	X	X	X	Nashville, GA
600N									X	X		X						X	X	X	X	N/A
700N-USA									X	X		X						X	X	X	X	Nashville, GA
700N									X	X		X						X	X	X	X	N/A
800N-USA	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Nashville, GA
800N	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	N/A
1000NE- USA	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	Nashville, GA
1000NE	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	N/A
2199-USA						X	X	X	X	X		X							X	X	X	Nashville, GA
2199						X	X	X	X	X		X							X	X	X	N/A
2 x 2HF - USA	X								X	X	X	X	X	X				X				Nashville, GA
2 x 2HF	X								X	X	X	X	X	X				X				N/A

**Note:** If product name shown above is highlighted, the product's manufacturer / supplier has indicated the product is or can be Build America Buy America compliant. Provided for informational purposes only, not for certification of compliance.

[Table Last Revised on 1/23/25]

## Qualified Product Lists – Continued

### **\* Soil Table**

Soil Type	% Passing Sieve #200	PI
A	< 15	N/A
B	15 to 50	N/A
C	>50	<7
D	>50	>7

### Qualified Product Lists – Continued

<b>Geotextile Company's Contact Information</b>						
<b>Manufacturer/Supplier</b>	<b>Street</b>	<b>City/Town</b>	<b>State</b>	<b>ZIP</b>	<b>Website</b>	<b>Email</b>
Advanced Drainage Systems, Inc.	4640 Trueman Blvd	Hilliard	OH	43026	<a href="http://www.adspipe.com">www.adspipe.com</a>	<a href="mailto:greg.baryluk@ads-pipe.com">greg.baryluk@ads-pipe.com</a>
Carthage Mills	4243 Hunt Rd	Cincinnati	OH	45242	<a href="http://carthagemills.com">carthagemills.com</a>	<a href="mailto:thaines@carthagemills.com">thaines@carthagemills.com</a>
Core & Main Geosynthetics	60 Walnut Street, Unit 2	Marcus Hook	PA	19061	<a href="http://coreandmain.com/geosynthetics">coreandmain.com / geosynthetics</a>	<a href="mailto:rob.stump@coreandmain.com">rob.stump@coreandmain.com</a>
Ferguson Waterworks	2831 Cardwell Rd	Richmond	VA	23234	<a href="http://www.fergusongss.com">www.fergusongss.com</a>	<a href="mailto:jacob.bottoms@ferguson.com">jacob.bottoms@ferguson.com</a>
Hanes Geo Components	815 Buxton St.	Winston-Salem	NC	27101	<a href="http://www.hanesgeo.com">www.hanesgeo.com</a>	<a href="mailto:approvals@hanescompanies.com">approvals@hanescompanies.com</a>
NCIF Geosynthetics Co	17800 Castleton St Ste 665	City of Industry	CA	91748	<a href="http://www.ncifgroup.com">www.ncifgroup.com</a>	<a href="mailto:info@ncifgroup.com">info@ncifgroup.com</a>
SKAPS Industries	335 Athena Dr	Athens	GA	30601	<a href="http://www.skaps.com">www.skaps.com</a>	<a href="mailto:contact@skaps.com">contact@skaps.com</a>
Soleno Textiles Inc	1261, rue Berlier Laval	QC	Canada	H7L3Z1	<a href="http://www.solenousa.com">www.solenousa.com</a>	<a href="mailto:servicetextile@solenousa.com">servicetextile@solenousa.com</a>
Solmax - TenCate Geosynthetics	365 South Holland Dr.	Pendergrass	GA	30567	<a href="http://www.solmax.com">www.solmax.com</a>	<a href="mailto:smatch@solmax.com">smatch@solmax.com</a>
Solmax - Propex Geosolutions	6025 Lee Highway Suite 425 PO Box 22788	Chattanooga	TN	37422	<a href="http://www.solmax.com">www.solmax.com</a>	<a href="mailto:smatch@solmax.com">smatch@solmax.com</a>
US Fabric Inc	3904 Virginia Ave	Cincinnati	OH	45227	<a href="http://www.usfabrics.com">www.usfabrics.com</a>	<a href="mailto:steve@usfabrics.com">steve@usfabrics.com</a>
Willacoochee Industrial Fabrics	1 Nashville Mills Rd	Nashville	GA	31650	<a href="http://www.winfabusa.com">www.winfabusa.com</a>	<a href="mailto:info@winfabusa.com">info@winfabusa.com</a>

[Date Table Last revised on 12/2/24]




## Qualified Product Lists – Continued

### Impact Attenuation Systems

**SPECIFICATION:** Standard Specification Section 18.02 SAND BARRELS

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 non-redirective, gating crash cushion criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.

Sand Barrels				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
CrashGard Barrels	Plastic Safety Services	MASH 2016	TL-3	CC-145
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			
	<a href="#">CrashGard ( MASH Tested 12 Barrel Array)</a>			
Big Sandy	TraFFix Devices	MASH 2016	TL-3	CC-139
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			
	<a href="#">Big Sandy (MASH Tested 12 Barrel Array)</a>			
Energite III	Valtir (Formerly Trinity Highway)	MASH 2016	TL-3	CC-164
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			
	<a href="#">Energite III ( MASH Tested 12 Barrel Array)</a>			

[ Table last revised on 7/13/22]

## Qualified Product Lists – Continued




### Impact Attenuation Systems - Continued:

#### **Impact Attenuation Systems (Tangential)**

**SPECIFICATION:** Standard Specification Section 18.03 IMPACT ATTENUATION SYSTEM

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 criteria; or, crash tested in accordance with “National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features” Test Level 3 criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.




<b>Impact Attenuation Systems (Tangential)</b>				
<b>ROADWAY SAFETY HARDWARE</b>	<b>Manufacturer</b>	<b>Testing Criteria</b>	<b>Test Level</b>	<b>Approval Basis</b>
SoftStop	Valtir (formerly Trinity Highway)	MASH 2016	TL-3	CC-115*
	Related Documents			
	<a href="#">Hardware Drawings</a>			
	<a href="#">Installation Manual</a>			
MSKT-SP	Road Systems, Inc.	MASH 2016	TL-3	CC-126*
	Related Documents			
	<a href="#">Hardware Drawing(s)</a>			
	<a href="#">Installation Manual</a>			
	<a href="#">MSKT - Components</a>			
Max-Tension	Lindsey Transportation Solutions	MASH 2016	TL-3	CC-133
	Related Documents			
	<a href="#">Installation Manual</a>			

Note: CC-###\* is FHWA HARDWARE ELIGIBILITY LETTER  
[ Table last revised on 3/20/20]

**Continued on Next Page:**

## Qualified Product Lists – Continued

### Impact Attenuation Systems (Tangential) - Continued:

Impact Attenuation Systems (Tangential)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
SKT-SP	Road Systems, Inc.	NCHRP 350	TL-3	CC-88*
	<b>** FOR REPAIR ONLY UNLESS SPECIFIED **</b> <b>ON CONTRACT DRAWINGS</b>			
	Related Documents			
	<a href="#">Hardware Drawing(s)</a>			
	<a href="#">Installation Manual</a>			
MBEAT	Road Systems, Inc.	MASH 2016	TL-3	CC-157
	Related Documents			
	<a href="#">Hardware Drawing(s)</a>			
	<a href="#">Installation-Manual</a>			
BEAT-MT	Road Systems, Inc.	NCHRP 350	TL-3	CC-69*
	<b>** FOR REPAIR ONLY UNLESS SPECIFIED **</b> <b>ON CONTRACT DRAWINGS</b>			
	Related Documents			
	<a href="#">Hardware Drawing(s)</a>			
	<a href="#">Installation Manual</a>			

Note: CC-###\* is FHWA HARDWARE ELIGIBILITY LETTER  
[ Table last revised on 2/20/25]

Continued on Next Page:




## Qualified Product Lists – Continued

### Impact Attenuation Systems (Flared)

**SPECIFICATION:** Standard Specification Section 18.03 IMPACT ATTENUATION SYSTEM

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 criteria; or, crash tested in accordance with “National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features” Test Level 3 criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.

Impact Attenuation Systems (Flared)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
MFLEAT	Road Systems, Inc	MASH 2016	3	CC-143*
	Related Documents			
	Hardware Drawings			
	Installation Manual			
	<a href="#">Manufacturer's Online Installation &amp; Inspection Course</a>			
Slotted Rail Terminal (SRT-31)	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-100*
	<b>** FOR REPAIR ONLY UNLESS SPECIFIED **</b>			
	Related Documents			
	Hardware Drawing(s)			
	<u>Installation Manual</u>			
Fleat-SP	Road Systems, Inc.	NCHRP 350	TL-3	CC-88*
	<b>** FOR REPAIR ONLY UNLESS SPECIFIED **</b>			
	<b>UPGRADE TO MFLEAT DEVICE</b>			
	Related Documents			
	<u>Hardware Drawing(s)</u>			
	<u>Installation Manual</u>			

Note: CC-####\* is FHWA HARDWARE ELIGIBILITY LETTER  
[Table last revised on 10/31/22]

**Continued on Next Page:**





## Qualified Product Lists – Continued

### Impact Attenuation Systems (Median/Gore) \*

**SPECIFICATION:** Standard Specification Section 18.03 IMPACT ATTENUATION SYSTEM

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 criteria; or, crash tested in accordance with “National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features” Test Level 3 criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.

Impact Attenuation Systems (Median/Gore)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
MAX-Tension Median	Lindsay Transportation Solutions	MASH 2016	TL-3	CC-141*
	Related Documents			
	<a href="#">Installation Manual</a>			
Median Attenuating TREND Terminal (MATT)	Valtir (formerly Trinity Highway	MASH 2016	TL-3	CC-175*
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			
	CTDOT Engineering Installation Design Guide			
BEAT-MT	Road Systems, Inc.	NCHRP 350	TL-3	CC-69
	***** FOR HW-910_10 BOX BEAM *****			
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			
C-A-T 350	Valtir (formerly Trinity Highway	NCHRP 350	TL-3	CC-33*
	***** <b>REPAIR ONLY SYSTEM</b> *****			
	Related Documents			
	<a href="#">Hardware Drawing</a>			
	<a href="#">Installation Manual</a>			

Note: CC-###\* is FHWA HARDWARE ELIGIBILITY LETTER  
[ Table last revised on 10/3/23]





## Qualified Product Lists – Continued

### Impact Attenuation Systems (Non-Gating)

**SPECIFICATION(s):** Owned Special Provision [0.135 Sec 1803 Impact Attenuation System 20220919](#)  
Standard Specification Section 18.03 IMPACT ATTENUATION SYSTEM

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 criteria; or, crash tested in accordance with “National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features” Test Level 3 criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.

Impact Attenuation Systems (Non-Gating)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
NARROW IMPACT ATTENUATION SYSTEMS – SHIELDING LESS THAN 30” WIDE FIXED OBJECT				
SCI100GM	Hill & Smith Inc.	MASH 2016	TL-3	CC-128*
	Shields fixed object max. 24” wide			
	Unit size is 21’-6 1/8” Long by 37 7/16” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<u>Installation Manual</u>			
<a href="#">Video(s) on SCI installation &amp; Repair</a>				
TAU-M	Lindsay Transportation Solutions	MASH 2016	TL-3	CC-147*
	Shields fixed object max. 27” wide			
	Unit size is 23-11" Long by 34.5” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<u>Installation Manual</u>			
Delta Crash Cushion	TrafFix Devices, Inc	MASH 2016	TL-3	CC-167*
	Shields fixed object max. 24” wide			
	Unit size is 21’ Long by 30 ” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	Hardware Drawings			
<u>Installation Manual</u>				
QUADGUARD M10	Valtir LLC	MASH 2016	TL-3	CC-112*
	Shields fixed object max. 24” wide			
	Unit size is 22’-4” Long by 31” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<u>Hardware Drawing(s)</u>			
<u>Installation Manual</u>				

Note: CC-####\* is FHWA HARDWARE ELIGIBILITY LETTER

[ Table last revised on 10/3/23]

\*\*\*\* For Concrete Pad size, refer to manufacturer’s drawings found in either Hardware Drawings or Installation Manual of Product

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## Qualified Product Lists – Continued

### Impact Attenuation Systems (Non-Gating) - Continued:

Impact Attenuation Systems (Non-Gating)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
<b>WIDE IMPACT ATTENUATION SYSTEMS – SHIELDING 30” AND GREATER WIDE FIXED OBJECT</b> <b>**Note: All Widening Occurs within the Impact Attenuator**</b>				
QUADGUARD	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-35*
	Available System Shielding widths; 30,36,48,69,90,126 inches			
	<b>** REPAIR ONLY SYSTEM FOR 24” SHIELDING **</b>			
	Unit size ranges 19’-1” to 22’-1” Long by 31” to 135” wide			
	<b>**** New Installations on Concrete Pad Only ****</b>			
	Related Document			
	<u>Installation Manual</u>			
	<u>Concrete Foundation Requirements</u>			
QUADGUARD II	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-35*
	Available System Shielding widths; 30,36,48,69,90,126 inches			
	<b>** REPAIR ONLY SYSTEM FOR 24” SHIELDING **</b>			
	Unit size ranges 19’-1” to 22’-1” Long by 31” to 135” wide			
	<b>**** New Installations on Concrete Pad Only ****</b>			
	Related Document			
TAU-II	Lindsay Transportation Solutions	NCHRP 350	TL-3	CC-75*
	Available System Shielding widths; 30,36,42,48,60,66,72,78,84,90,96,102 inches			
	<b>** REPAIR ONLY SYSTEM FOR 27” SHIELDING **</b>			
	Unit size ranges 23’-10” Long by 37” to 112” wide			
	<b>**** New Installations on Concrete Pad Only ****</b>			
	Related Documents			
	<u>Installation Manual</u>			

Note: CC-#### is FHWA HARDWARE ELIGIBILITY LETTER  
**\*\*\*\*** For Concrete Pad size, refer to manufacturer’s drawings found  
in either Hardware Drawings or Installation Manual of Product  
[ Table last revised on 3/7/23 ]

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## Qualified Product Lists – Continued

### Impact Attenuation Systems (Non-Gating) - Continued:

Impact Attenuation Systems (Non-Gating)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
TRACC	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-54*
	Available System Shielding width of 30 inches			
	<b>** REPAIR ONLY SYSTEM FOR 24" SHIELDING **</b>			
	Unit size is 22'-4" Long by 31" wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<a href="#">Installation Manual</a>			
	<a href="#">Concrete Foundation Requirements</a>			
WIDETRACC	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-54*
	Available System Shielding widths of 41 or 58 inches			
	Unit size is 23'-11" Long by 34.5" wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<a href="#">Installation Manual</a>			
	<a href="#">Concrete Foundation Requirements</a>			
FASTRACC	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-54*
	Available System Shielding width of 30 inches			
	Unit size is 21'-6 1/8" Long by 37 7/16" wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<a href="#">Installation Manual</a>			
	<a href="#">Concrete Foundation Requirements</a>			

Note: CC-####\* is FHWA HARDWARE ELIGIBILITY LETTER  
 \*\*\*\* For Concrete Pad size, refer to manufacturer's drawings found in either Hardware Drawings or Installation Manual of Product  
 [ Table last revised on 10/17/22]

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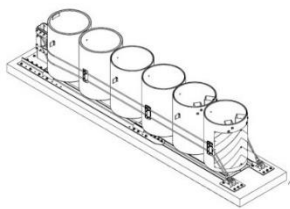

## Qualified Product Lists – Continued

### Impact Attenuation Systems (Non-Gating - High Incident)

**SPECIFICATION(s):** Owned Special Provision [0.135 Sec 1803 Impact Attenuation System 20220919](#)  
Standard Specification Section 18.03 IMPACT ATTENUATION SYSTEM

**PREQUALIFICATION CRITERIA:** Crash Tested in accordance with “AASHTO Manual for Assessing Safety Hardware (MASH)” Test Level 3 criteria; or, crash tested in accordance with “National Cooperative Highway Research (NCHRP) Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features” Test Level 3 criteria.

**Comments:** For all attenuators, see the [Highway Design Manual - Listed on Engineering and Construction Information Resource webpage](#) for guidance.

Impact Attenuation Systems (Non-Gating High Incident)				
ROADWAY SAFETY HARDWARE	Manufacturer	Testing Criteria	Test Level	Approval Basis
SCI100GM	Hill & Smith Inc.	MASH 2016	TL-3	CC-128*
	Shields fixed object max. 24” wide			
	Unit size is 21’-6 1/8” Long by 37 7/16” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Document			
	<a href="#">Video on Installation</a>			
	SCI Video on Repairs			
	SCI Manual			
REACT 350	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-26*
	Shields fixed object ranging from 8” to 36” wide			
	Unit size is 19’- 5” to 30’- 3” long by 41.5” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<a href="#">Product Manual ( 6 Barrel System )</a>			
	<a href="#">Product Manual ( 9 Barrel System )</a>			
	<a href="#">Concrete Foundation Requirement</a>			
REACT 350 WIDE	Valtir (formerly Trinity Highway)	NCHRP 350	TL-3	CC-73*
	Available System Shielding widths of 60,96 and 120 inches			
	Unit size is 30’- 7” to 30’- 10” long by 71” to 122” wide			
	**** New Installations on Concrete Pad Only ****			
	Related Documents			
	<a href="#">Product Manual</a>			
	<a href="#">Product Installation Manual</a>			

Note: CC-####\* is FHWA HARDWARE ELIGIBILITY LETTER  
\*\*\*\* For Concrete Pad size, refer to manufacturer’s drawings found in either Hardware Drawings or Installation Manual of Product  
[ Table last revised on 10/17/22]

## Qualified Product Lists – Continued

### Pedestrian Barricade

**SPECIFICATION:** 1) Owned Special Provision 0979005A – Pedestrian Barricade  
2) Standard Specification, Section 9.79

#### **PREQUALIFICATION CRITERIA:**

- 1) Issuance of FHWA Reimbursement Eligibility Letter certifying that the device was crash tested in accordance with industry standards of 2016 AASHTO MASH for specified test level.
- 2) Compliance with the following Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) 2009 Edition requirements:
  - Bottom and top surfaces shall be detectable by a person with a visual disability using a long cane;
  - The bottom of the bottom surface shall be at most 2 inches above the ground;
  - The top of the top surface shall be at least 32 inches above the ground;
  - Barricade color shall be orange, white, or yellow;
  - Devices can be interlocked. Connection points between adjacent barricades/barriers shall be smooth on the pedestrian side of the barricade;
  - Device supports shall not project more than 4 inches into the pedestrian path.

Test Level 3 - Roadways with posted speed limit of 60 mph or less	
Manufacturer/Supplier	Product Brand Name
Plastic Safety Systems 2444 Baldwin Road Cleveland, OH 44104 Website: <a href="http://pss-innovations.com">pss-innovations.com</a> Email: <a href="mailto:jesus.perez@pss-innovations.com">jesus.perez@pss-innovations.com</a> Phone: (800) 662-.6338	SafetyWall SafetyRail
Valtir, LLC 3617 Cincinnati Avenue Rocklin, California 95765 Website: <a href="http://www.valtir.com">www.valtir.com</a> Email: <a href="mailto:Paul.Kruse@valtir.com">Paul.Kruse@valtir.com</a> Phone: (916) 644-9102	YODOCK 2001 SiteGuide LCD
Pexco, LLC 3110 70 <sup>th</sup> Avenue East Tacoma, WA 98424 Website: <a href="http://www.pexco.com">www.pexco.com</a> Email: <a href="mailto:Bob.Scott@pexco.com">Bob.Scott@pexco.com</a> Phone: (253) 284-8000	TPAR ( Temporary Pedestrian Access Route) Barricade

[ Table last revised on 11/22/23]

**Pedestrian Barricade - Continued:**

### **Qualified Product Lists – Continued**

#### **Pedestrian Barricade - Continued:**

Test Level 2 - Roadways with posted speed limit of 40 mph or less	
Manufacturer/Supplier	Product Brand Name
Valtir, LLC 3617 Cincinnati Avenue Rocklin, California 95765 Website: <a href="http://www.valtir.com">www.valtir.com</a> Email: <a href="mailto:Paul.Kruse@valtir.com">Paul.Kruse@valtir.com</a> Phone: (916) 644-9102	YODOCK 2001M
Plasticade 100 Howard Avenue Des Plaines, Illinois 60018 Website: <a href="http://Plasticade.com">Plasticade.com</a> Email: <a href="mailto:Hross@plasticade.com">Hross@plasticade.com</a> Phone: (847) 583-4189	Strongwall ADA Pedestrian Barricade

[ Table last revised on 10/1/25]

## **Qualified Product Lists – Continued**

### **Penetrating Sealer Protective Compound**

#### **SPECIFICATION:**

Owned Special provision 0819002A – Penetrating Sealer Protective Compound

#### **PREQUALIFICATION CRITERIA:**

##### Material Requirements:

- The penetrating sealer shall be a solution that penetrates to a depth of at least ½” into the concrete.
- The sealer shall be a silicate solution that will react with free calcium within the concrete to form a permanent barrier that is integral with the concrete to protect against water and chloride intrusion.
- The sealer shall be clear and cause no significant change in appearance or texture of the concrete surface.
- The sealer shall not cause loss of traction on sidewalks or bridge decks.
- The VOC content shall be less than 100 grams/liter as calculated according to one of the following:
  - EPA Reference Method 24, 40 CFR 60, Appendix A, or an alternative test method approved by the New York Department of Environmental Conservation and the Administrator pursuant to NYSDEC Regulations Part 205.6(c) as indicated in the Connecticut Department of Energy and Environmental Protection (CT DEEP) Regulation 22a-174-41a.

##### Test Requirements:

Products shall be evaluated by AASHTO Product Evaluation & Audit Solutions (formerly NTPEP) for Concrete Coating and Sealers (CCS) in accordance with the AASHTO T384 performance tests outlined in the Technical Committee Work Plan for Evaluation of Concrete Coatings and Sealings and shall meet the following minimum pre-qualification criteria:

<b>T384 Performance Tests included in Workplan</b>	<b>Minimum Pre-Qualification Criteria</b>
Moisture Vapor Transmission Drying Rate Coefficient (DRC)	≥ 80%
Waterproofing Performance/Saltwater Immersion Saltwater Absorption Ratio (SAR)	≤ 10%
Total Chloride Ingress Relative Chloride Ratio (RCR)	≤ 15%
Depth of Penetration	12 mm Minimum

[Table last revised on 8/5/24]

**Continued on Next Page:**

## Qualified Product Lists – Continued

### Penetrating Sealer Protective Compound - Continued

In addition to the T384 performance tests required in the Technical Committee Work Plan for Evaluation of Concrete Coatings and Sealings for Penetrating Concrete Sealers, the following T384 tests shall be performed, and the products shall meet the following minimum pre-qualification criteria:

Additional T384 Tests	Minimum Pre-Qualification Criteria
Alkali Resistance Saltwater Absorption Ratio after Alkali Exposure ( $SAR_{ALKALI}$ )	$\leq 10\%$
Weathering/Saltwater Resistance Relative Chloride Ratio for Weathering Slabs ( $RCR_W$ )	$\leq 15\%$
Skid Resistance $SRC_{unweathered}$ $SRC_{weathered}$	$\geq 90\%$ $\geq 90\%$
Evaluation of Freezing and Thawing Deterioration Deterioration Rating Freeze-Thaw Weight Loss Ratio (FTR)	0 – No evidence of deterioration $FTR \leq 10\%$
Saltwater Absorption after Freezing and Thawing Exposure Saltwater Absorption Ratio after Freezing and Thawing ( $SAR_{FT}$ )	$\leq 15\%$

[ Table last revised on 8/5/24 ]

A Materials Certificate and Certified Test Report shall be submitted in accordance with Article 1.06.07 indicating that the product meets the requirements above. The date of testing shall be within 5 years of application for initial product approval.

### PROVISIONS FOR CONTINUANCE ON QPL:

For current qualified products, testing shall be performed for any reformulation of the product(s).

Manufacturer/Supplier	Product Brand Name	Date of Test Compliance	Expiration Date
Wicktek Inc. 8097 Sacred Heart Lane Cincinnati, OH 45255 Website: <a href="http://www.wicktek.com">www.wicktek.com</a>	DensiCrete		December 31, 2023 <b>** See Note 1 **</b>

**\*\* Note 1:** Product remains “Qualified” while updated test data is under review.

[ Table last revised on 6/22/23 ]

## **Qualified Product Lists – Continued**

### **Retroreflective Sheeting: Construction Barricade Sheeting**

**SPECIFICATION:** 1) Standard Specification Section M.18.09

2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956

2) Participation in the AASHTO Product Evaluation and Audit Solutions 1-Year Retroreflective Sheeting Test Deck.

Retroreflective Sheeting Type IV	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3336 White/Orange
Avery Dennison Reflective Products Division 7542 Natchez Avenue Niles, IL 60714	W11144 White/Orange W11145 White/Orange

[ Table last revised on 3/20/20]

Retroreflective Sheeting Type XI	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	446 White/Orange

[ Table last revised on 3/20/20]

### **Qualified Product Lists – Continued**

#### **Retroreflective Sheeting: Traffic Drums, 42” Traffic Cones, Opposing Traffic Lane Divider, Glare Screens and Posts and Tubular Markers (Flexible) Sheeting**

**SPECIFICATION:** 1) Standard Specification Section M.18.09  
2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956  
2) Participation in the AASHTO Product Evaluation and Audit Solutions 1-Year Retroreflective Sheeting Test Deck.

Retroreflective Sheeting Type IV	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3310i – White 3910 – White 3914 – Fluorescent Orange
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	WR-7100 Reboundable White Prismatic WR-7114 Reboundable Fluorescent Orange Prismatic
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	5934 – White 5935 – White 5935 - Orange

[ Table last revised on 10/1/25]

#### **Retroreflective Sheeting: Traffic Cone Collar Sheeting**

**SPECIFICATION:** 1) Standard Specification M.18.09  
2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956

Retroreflective Sheeting Type VI	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3340 – Flexible Prismatic Cone Sheeting

[ Table last revised on 2/15/23]

## **Qualified Product Lists – Continued**

### **Retroreflective Sheeting: Construction Roll-Up Sign Sheeting**

**SPECIFICATION:** 1) Standard Specification M.18.09

2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956

2) Participation in the AASHTO Product Evaluation and Audit Solutions 1-Year Retroreflective Sheeting Test Deck.

Retroreflective Sheeting Type VI	
Manufacturer/Supplier	Product Brand Name
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	WU-7014 Fluorescent Orange
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	RS60 - White RS64I – Fluorescent Orange RS20 - White RS24 – Fluorescent Orange RS33 – Fluorescent Pink
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	ORALITE: Super Bright Roll-Up-Sign-Orange Marathon Roll Up Sign Fluorescent Orange

[ Table last revised on 2/15/23 ]

### **Qualified Product Lists – Continued**

#### **Retroreflective Sheeting: Delineator Non-Adhesive Backing Type Sheeting**

**SPECIFICATION:** 1) Standard Specification M.18.09

2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956

2) Participation in the AASHTO Product Evaluation and Audit Solutions 3-Year Retroreflective Sheeting Test Deck.

Retroreflective Sheeting Type V	
Manufacturer/Supplier	Product Brand Name
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	ORALITE: AP1000 Red AP1000 White AP1000 Yellow AR1000 White AR1000 Yellow

[ Table last revised on 3/20/20]

## **Qualified Product Lists – Continued**

### **Retroreflective Sheeting: Sign and Delineator Sheeting**

**SPECIFICATION:** 1) Standard Specification M.18.09

2) Material Certificate submission conforming to Standard Specification 1.06.07.

**PREQUALIFICATION CRITERIA:** 1) Conformance to ASTM D4956

2) Participation in the AASHTO Product Evaluation and Audit Solutions 3-Year Retroreflective Sheeting Test Deck.

Retroreflective Sheeting Type IV	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3930 – White 3931 – Yellow 3932 – Red 3935 – Blue 3937 – Green 3939 – Brown
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	T-6500 – White T-6501 – Yellow T-6505 – Blue T-6507 – Green T-6508 – Red T-6509 – Brown
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	5900-010 – White 5900-020 – Yellow 5900-030 – Red 5900-050 – Blue 5900-060 – Green 5900-080 – Brown

[ Table last revised on 7/5/23 ]

## Qualified Product Lists – Continued

### Retroreflective Sheeting: Sign and Delineator Sheeting – Continued

Retroreflective Sheeting Type VIII	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3924S Fluorescent Orange
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	W7514 Fluorescent Orange
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	Oralite®: 5930-038 Fluorescent Orange

[ Table last revised on 3/20/20 ]

Retroreflective Sheeting Type IX	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Division 3M Center, Building 235-03W-052 St. Paul, MN 55144	3981 – Fluorescent Yellow 3983 – Fluorescent Yellow/Green 3990 – White 3991 – Yellow 3992 – Red 3995 – Blue 3997 – Green 4090 – white 4091 – Yellow 4092 – Red 4095 – Blue 4097 – Green 4081 – Fluorescent Yellow 4083 – Fluorescent Yellow-Green 4084 – Fluorescent Orange

**Continued on Next Page:**

## Qualified Product Lists – Continued

### Sign and Delineator Sheeting Type IX – Continued

Retroreflective Sheeting Type IX	
Manufacturer/Supplier	Product Brand Name
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	T-9500 – White T-9501 – Yellow T-9505 – Blue T-9507 – Green T-9508 – Red T-9513 – Fluorescent Yellow/Green W-9514 – Fluorescent Orange T-11500 – White T-11501 – Yellow T-11505 – Blue T-11507 – Green T-11508 – Red T-11511 – Fluorescent Yellow T-11513 – Fluorescent Yellow/Green W-11514 – Fluorescent Orange
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	7900-010 – White 7900-020 – Yellow 7900-050 – Blue 7900-060 – Green 7900-029 – Fluorescent Yellow-Green 7900-037 – Fluorescent Yellow 5930-038 – Fluorescent Orange

[ Table last revised on 9/14/22 ]

**Continued on Next Page:**

## Qualified Product Lists – Continued

### **Retroreflective Sheeting: Sign and Delineator Sheeting – Continued**

Retroreflective Sheeting Type XI	
Manufacturer/Supplier	Product Brand Name
3M Company Transportation Safety Div. 3M Center, Building 235-03W-052 St. Paul, MN 55144	4090 – White 4091 – Yellow 4092 – Red 4095 – Blue 4097 – Green 4099 – Brown 4081 – Fluorescent Yellow 4083 – Fluorescent Yellow-Green 4084 - Fluorescent Orange
Avery Dennison Corp. 7542 N. Natchez Avenue Niles, Illinois, 60714	T-11500 – White T-11501 – Yellow T-11505 – Blue T-11507 – Green T-11508 – Red T-11509 – Brown T-11511 – Fluorescent Yellow T-11513 – Fluorescent Yellow-Green W-11514 – Fluorescent Orange
ORAFOL Americas, Inc. 120 Darling Drive Avon, CT 06001	9900-010-Brilliant Grade Premium White 9900-020-Brilliant Grade Premium Yellow 9900-029-Brilliant Grade Premium FI Yellow-Green 9900-030-Brilliant Grade Premium Red 9900-037-Brilliant Grade Premium Fluorescent Yellow 9900-038-Brilliant Grade Premium Fluorescent Orange 9900-050-Brilliant Grade Premium Blue 9900-060-Brilliant Grade Premium Green 9900-080-Brilliant Grade Premium Brown
Nippon Carbide Industries 13856 Bettencourt St. Cerritos, CA 90703	99847 – Fluorescent Orange

[ Table last revised on 10/1/25 ]

## **Qualified Product Lists – Continued**

### **Spray-Applied Membrane Waterproofing System**

**SPECIFICATION:** Owned special provision Item No. 0707009A – Membrane Waterproofing (Cold Liquid Elastomeric)

#### **PREQUALIFICATION CRITERIA:**

##### **A) Material requirements:**

1. Primer: The primer shall be a 100% reactive, two components, spray applied resin capable of full cure in 40 minutes at 68°F (20°C).
2. Membrane: The membrane shall be 100% solvent free reactive, two components, spray applied material.
3. Aggregate: The aggregate shall be a nonfriable, durable #8 aggregate stone.

##### **B) Test Requirements:**

The membrane, when tested as an 80 mil (minimum thickness of 80 mil and a maximum thickness not to exceed 90 mil) sample alone or as a sample of the complete system comprised of the 80 mil as described above plus a 40 mil topping with aggregate, shall meet or exceed the following performance requirements:

Water Vapor Transmission Permeance	ASTM E96	0.3 perms or less
Adhesion (Concrete)	ASTM D7234	150 psi (1.0 MPa) or failure in concrete.
Adhesion (Steel)	ASTM D4541	300 psi (2.1 MPa)
Minimum Tensile Strength	ASTM D638, Method A, Die C	940 psi (6.4 MPa)
Minimum Elongation at Break	ASTM D638, Method A, Die C	80%
Crack Bridging	ASTM D1305	Pass @ 10 cycles, 0.125 in. (3.2mm) -15°F (-26°C)
Resistance to Heat Aging	ASTM C1522	Pass

#### **APPROVAL:**

Submitted products will be reviewed for approval pending results of a one-year long test trial.

**Continued on Next Page:**

## Qualified Product Lists – Continued

### **Spray-Applied Membrane Waterproofing System - Continued:**

#### **PROVISIONS FOR CONTINUANCE ON QPL:**

All testing shall have been performed no longer than 5 years prior to the product installation date. Testing showing conformance with the above noted performance requirements shall be submitted to the Department who shall establish the “Date of Test Compliance”. Products with a “Date of Test Compliance” greater than 5 years prior to the product installation date shall not allowed to be used.

<b>Product Brand Name</b>	<b>Product Contact</b>	<b>Date of Test Compliance</b>	<b>Expiration Date</b>
Eliminator *	GCP 20 Moores Road, Malverne, PA 19355 Telephone: 678-575-1927 E-Mail: <a href="mailto:Annette.aitken@gcpat.com">Annette.aitken@gcpat.com</a> Website: <a href="http://gcpat.com">gcpat.com</a>	September 12, 2023	September 12, 2028
Bridge Deck Membrane System	PPG Architectural Finishes, Inc. One PPG Place Pittsburgh, PA 15272 Telephone: 781-427-6116 E-Mail <a href="mailto:dlite@ppg.com">dlite@ppg.com</a> Website: <a href="http://www.bridgepreservation.com">www.bridgepreservation.com</a>	January 1, 2024	January 1, 2029
PmB Blue Shield	PIM Corporation 201 Circle Drive North, STE 105 Piscataway, NJ 08854 Telephone: 732-469-6224 E-Mail: <a href="mailto:pimcorp@pimcorp.com">pimcorp@pimcorp.com</a> Website: <a href="http://www.pimcorp.com">www.pimcorp.com</a>	October 20, 2022	October 20, 2027
Wasser Polyflex Bridge Deck System	Wasser Technologies 3050 Biscayne Blvd. Suite 302 Miami, FL 33137 Telephone: 216-536-6777 Email: <a href="mailto:kstull@wassercoatings.com">kstull@wassercoatings.com</a> Website: <a href="http://wassercoatings.com">wassercoatings.com</a>	November 7, 2023	November 3, 2028

[Table last revised on 1/8/25 ]

\* Eliminator is an Acrylic-Based system.

## **Qualified Product Lists – Continued**

### **Walls: Embankment Walls**

**SPECIFICATION:** Owned special provision:

1. ITEM #0601445A - #0601449A (SITE NO. 1 thru 5)
2. ITEM #0601490A - #0601495A (SITE NO. 6 thru 11)

**PREQUALIFICATION CRITERIA:** LRFD Bridge Design Specification

<b>SUPPLIER/LOCATION</b>	<b>PRODUCT BRAND NAME</b>
Connecticut Precast Corp. 555 Fan Hill Road Monroe, CT 06468 Telephone: 203-268-8688 Website: <a href="http://www.ctprecast.com">www.ctprecast.com</a>	Recon Retaining Wall
Keystone Retaining Walls 4444 West 78 <sup>th</sup> Street Minneapolis, MN 55435 Telephone: 952-897-1040 Website: <a href="http://www.keystonewalls.com">www.keystonewalls.com</a>	KeySystem III Retaining Wall
Redi-Rock Walls - CT Division 68A South Canal Street Plainville, CT 06062 Telephone: 860-793-6805	Redi-Rock Retaining Wall-Cobblestone Face Mold
TENSAR Earth Technology, Inc. 227 Ritter Road Sewickley, PA 15143 Telephone: 412-749-9190	MESA Retaining Wall System
VERSA-LOK of New England 5 Northern Boulevard, Unit 15 Amherst, NH 03031 Telephone: 603-883-3042 E-Mail: <a href="mailto:Sales@wallsthatwork.com">Sales@wallsthatwork.com</a> Website: <a href="http://www.versa-Lok.com">www.versa-Lok.com</a>	VERSA-LOK Retaining Wall

[Table last revised on 2/3/23 ]

## **Qualified Product Lists – Continued**

### **Walls: Retaining Walls - Mechanically Stabilized Earth (MSE) Walls**

**SPECIFICATION:** Owned special provisions: Item #'s 0601651A, 0601665A, 0601678A & 0601687A RETAINING WALL

**PREQUALIFICATION CRITERIA:** LRFD Bridge Design Specification

<b>SUPPLIER/LOCATION</b>	<b>PRODUCT BRAND NAME(S)</b>
Contech Engineered Solutions LLC 9100 Centre Pointe Drive Westchester, OH 450069 Telephone: 774-402-0312	Vist-A-Wall Systems
Inventure Civil LLC P.O. Box 1781 Wake Forest, NC 27588 Telephone: (919) 453-2011	SINE WALL
Tricon Precast Limited 15055 Henry Road Houston, TX 77060 Telephone: 877-387-4266 Website: <a href="http://www.triconprecast.com">www.triconprecast.com</a>	Tricon Retained Soil Wall System
The Reinforced Earth Company 45610 Woodland Road, Suite 200 Sterling, VA 20166 Telephone: 978-764-7315 E-Mail: <a href="mailto:PAnderson@reinforcedearth.com">PAnderson@reinforcedearth.com</a> Website: <a href="http://www.reinforcedearth.com">www.reinforcedearth.com</a>	Reinforced Earth  Retained Earth

[ Table last revised on 2/7/23]

## **Qualified Product Lists – Continued**

### **Walls: Retaining Walls - Prefabricated Modular Walls**

**SPECIFICATION:** Owned special provisions: Item #'s 0601651A, 0601665A, 0601678A & 0601687A RETAINING WALL

**PREQUALIFICATION CRITERIA:** LRFD Bridge Design Specification

<b>SUPPLIER/LOCATION</b>	<b>PRODUCT BRAND NAME</b>
United Concrete Products Inc Retaining Wall Division 173 Church Street Yalesville T 06492 Telephone: 203-269-3119 E-Mail: <a href="mailto:dtopa@unitedconcrete.com">dtopa@unitedconcrete.com</a> Website: <a href="http://www.unitedconcrete.com">www.unitedconcrete.com</a>	Doublewal Retaining Wall System
Earth Wall Products 1741 Dixie Ave SE Smyrna, GA 30080 Telephone: 678-594-3451 E-Mail: <a href="mailto:trainey@earthwallproducts.com">trainey@earthwallproducts.com</a> Website: <a href="http://earthwallproducts.com">earthwallproducts.com</a>	GRAVIX
The Reinforced Earth Company 45610 Woodland Road, Suite 200 Sterling, VA 20166 Telephone: 978-764-7315 E-Mail: <a href="mailto:PAnderson@reinforcedearth.com">PAnderson@reinforcedearth.com</a> Website: <a href="http://www.reinforcedearth.com">www.reinforcedearth.com</a>	T-Wall

[ Table last revised on 2/15/23 ]

## **Qualified Product Lists – Continued**

### **Rapid Hardening Concrete Patch (RHCP) Material For Structures**

#### **SPECIFICATION:**

Owned Special Provision 0503989A – Reconstruct Concrete Deck Ends

#### **PREQUALIFICATION CRITERIA:**

Material Requirements for Rapid Hardening Concrete Patch (RHCP) Material (Extended Mix):

- The concrete mix shall be a bagged mix that has been submitted to the AASHTO Product Evaluation and Audit Solutions (AASHTO PEAS) for testing, has been tested as an extended mix in accordance with the AASHTO PEAS workplan for Rapid Hardening Concrete Patching (RHCP) material, and the test results are documented in AASHTO PEAS's DataMine database.
- The submitted bagged mix may be neat if it is supplemented with coarse aggregates of the type, size and quantity specified by the manufacturer.
- Coarse aggregate used to extend a neat mix shall conform to the requirements of Article M.03.01 and be sourced from aggregate producers and locations included on the Department's Qualified Materials List (QML).
- Water added to the mix shall conform to the requirements of Sub-article M.03.01-4.
- Concrete properties shall meet the thresholds listed in Test Requirements below.

Material Requirements for Rapid Hardening Concrete Patch (RHCP) Material (Neat):

The term "neat" refers to a product which has less than 5% aggregate retained on the 3/8-in. sieve and is tested as packaged with no added components except for water or liquid.

- The mix shall be a neat, bagged mix that has been submitted to AASHTO PEAS for testing, has been tested in accordance with the AASHTO PEAS workplan for Rapid Hardening Concrete Patching (RHCP) material, and the test results are documented in AASHTO PEAS's DataMine database.
- Water added to the mix shall conform to the requirements of Sub-article M.03.01-4.
- Concrete properties shall meet the thresholds listed in Test Requirements below.

Test Requirements:

The proposed product shall meet the following pre-qualification criteria:

- Compressive Strength
  - Neat: AASHTO T 106 for cementitious and polymer-modified; ASTM C579 for polymer
  - Extended: AASHTO T 22 for cementitious and polymer-modified; ASTM C579 for polymer
  - The following threshold is to be met when construction loads, paving or traffic loads are to be applied on the repair concrete during or the end of the work shift.
    - 3 hours: 4,000 psi minimum
- Bond Strength - Slant Shear (ASTM C882):
  - 2,000 psi minimum (1 day)
  - 2,800 psi minimum (7 days)
- Bond Strength – Direct Tension (ASTM C1583): 300 psi minimum
- Tensile Strength (AASHTO T 198): 500 psi minimum. Not applicable to Polymer and Polymer-modified RHCP material.
- Length change – 28 Days in Air (AASHTO T 160): Not applicable to Polymer RHCP material.
  - -0.050% maximum (extended concrete)
  - -0.100% maximum (neat)
- Linear Shrinkage (ASTM C531): Applicable to Polymer RHCP material only.
  - -0.050% maximum (extended concrete)

## **Qualified Product Lists – Continued**

- -0.100% maximum (neat)
- Freeze Thaw – Procedure A, Rapid Freezing and Thawing in Water (AASHTO T 161): 90% minimum threshold for durability. Not applicable to Polymer RHCP material.
- Chloride Ion Content (AASHTO T 260): 0.5 lb./c.y. when coarse aggregates are tested in accordance with Procedure A for water- and acid-soluble chlorides. Not applicable to Polymer RHCP material.

Rapid hardening concrete with low-permeability characteristics shall meet the thresholds for the test requirements above as well as the following threshold:

- Surface Resistivity (AASHTO T 358): 21 kohm-cm or greater in 28 days.

Surface resistivity is not applicable to Polymer RHCP material.

### **QUALIFICATION:**

Products shall meet the Material Requirements and Test Requirements above. For each State project on which the product is proposed for use, a Materials Certificate and Certified Test Report shall be submitted in accordance with Article 1.06.07 indicating that the product meets the requirements above and that the mix design is the same as that which was submitted to and tested by the AASHTO PEAS for the Date of Test Compliance indicated in the table below. Only test data from the current DataMine database may be submitted for product evaluation.

### **PROVISIONS FOR CONTINUANCE ON QPL:**

To be considered for continuance on the QPL, a product that was previously prequalified shall be retested within 5 years of the Date of Test Compliance (identified by AASHTO PEAS as “Submittal Year”) and the lab results shall be published in DataMine. If after the retest the lab results indicate that the product still meets the prequalification criteria listed herein, and the Department determines that the product has not performed adversely, the product will continue to be listed on the QPL. The following products meet the prequalification criteria:

<b>Product Brand Name/AASHTO PEAS No. (RHCP-xxx)</b>	<b>Manufacturer/Supplier</b>	<b>Year of Test Compliance/ Expiration Date</b>	<b>Required Mix Design as Tested</b>
ProSpec Premium Patch V/O*♦ RHCP-2022-01-001	H.B. Fuller Construction Products Inc. 1105 South Frontenac St Aurora, IL 60504-6451 Phone: 800-832-9023	2022 / 12/31/2027	50 lb. bag 3.5 quarts (7.3 lbs.) water
SikaQuick 2500*♦ (Extended) RHCP-2021-01-009  SikaQuick 2500*♦ (Neat)	Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 1-800-933-7452	2021 / 12/31/2026	50 lb. bag 25 lbs. 3/8” aggregate 5.5 pints (5.73 lbs.) water  50 lb. bag 5.5 pints (5.73 lbs.) water
Commercial Grade FastSet Concrete Mix* (Pre- Extended) RHCP-2021-01-003	Quikrete Companies 500 Marathon Pkwy Lawrenceville, GA 30046 Phone: 404-926-3127	2021 / 12/31/2026	70 lb. bag 6.5 pints (6.78 lbs.) water
Matacrete Ready Rep N Polymer (Neat)*♦	FPT Infrastructure 401 Old US 52 South	2021 / 12/31/2026	40 lbs. powder plus 5 lbs liquid (Neat)

### Qualified Product Lists – Continued

RHCP-2021-01-005  Matacrete Ready Rep N Polymer (Extended)*♦	Mount Airy, NC 27030 Phone: 336-789-7259		1" to 2" thick: 17.5 lbs. quartz sand; 2" to 4.75" thick: 6.6 lbs. quartz sand plus 26.5 lbs. 5/8" max. quartz aggregate; > 4.75" thick: 10.6 lbs. quartz sand plus 14.1 lbs. 5/8" max. quartz aggregate plus 17.6 lbs 1-1/4" max. quartz aggregate
Planitop 18 ES (*) (Neat) RHCP-2020-01-006	Mapei Corp. 1144 East Newport Center Drive Deerfield Beach, FL 33442 Phone: 1-888-876-2734	2020 / 12/31/2025	50 lb. bag 2.75 quarts (5.73 lbs.) water
SilproRapid♦ (Extended) RHCP-2024-01-004	Silpro LLC 2 New England Way Ayer, MA 01432-1514 Phone: 800-343-1501 / 978-772-4444	2024 / 12/31/2029	50 lb. bag 30 lbs. 3/8" aggregate 2.75 quarts (5.73 lbs.) water
Planitop 18 TG (Neat) (*)  RHCP-2023-01-001  Planitop 18 TG*♦ (Extended)	Mapei Corp. 1144 East Newport Center Drive Deerfield Beach, FL 33442 E-mail: <a href="mailto:afulkerson@mapei.com">afulkerson@mapei.com</a>	2023 / 12/31/2028	50 lb. bag 2.8 quarts (5.8 lbs.) water  50 lb. bag 40 lbs. washed pea gravel 2.8 quarts (5.8 lbs.) water
Commercial Grade FastSet DOT Mix (Neat) RHCP-2021-01-002  Commercial Grade FastSet DOT Mix Extended (Pre-Extended) RHCP-2021-01-001	Quikrete Companies 500 Marathon Pkwy Lawrenceville, GA 30046 Phone: 404-926-3127	2021 / 12/31/2026	55 lb. bag 6.5 pints (6.78 lbs) water  80 lb. bag 3.5 quarts (7.30 lbs.) water

\*Pre-qualified as a rapid hardening concrete and as a low-permeability concrete

♦ Also meets 2,000 psi compressive strength min. at 1 hour

## Qualified Product Lists – Continued

### Anti-Strip Agent (ASA), Warm Mix Additive (WMA), Dual Purpose Anti-Strip Agent and Warm Mix Additive (Dual Purpose)

**SPECIFICATION:** Standard Specifications Section M.04

**PREQUALIFICATION CRITERIA:**

Products shall be evaluated by AASHTO Product Evaluation and Audit Solutions (PEAS) and will remain qualified for a period of 7 years beyond their completion of PEAS testing provided there is no change in the formulation of the product.

Test Requirements:

Test	Standard	WMA	ASA / Dual Purpose
Performance-Graded Asphalt Binder (PG Grade) & MSCR	AASHTO M 320 AASHTO M 332	No Loss of PG Grade	No Loss of PG Grade
Moisture-Induced Damage (TSR)	AASHTO T 283	Maintain 95% or greater from control	TSR shall demonstrate improvement over control and test result shall meet 80% or greater with additive
Boil Test	ASTM D3625	N/A	Shall demonstrate improvement over control test and maximum of 5% uncoated aggregate with additive
Hamburg Wheel-Track	AASHTO T 324	Rut depth does not increase by more than 5.0 mm and stripping inflection point not be reduced from control	Rut depth does not increase by more than 5.0 mm and stripping inflection point improvement of 25% or better from control

Qualified Products:

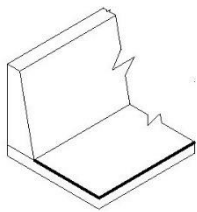
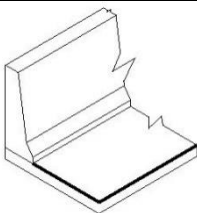
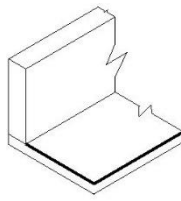
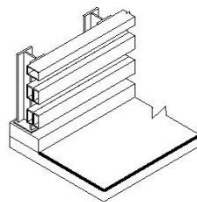
Manufacturer/Supplier	Technology/Product	Product Category	ASA	WM A	Dual Purpose	PEAS Eval. Year
All States Materials Group P.O. Box 91 Sunderland, MA 01375	SonnewarMix RT	Organic (Wax) Additive		x		2024
ArrMaz Products Inc. 6502 South Yale Ave Tulsa, OK, 74136	Warm Grip Ultra P	Chemical Additive			x	2024
	Warm Grip Ultra 37N	Chemical Additive			x	2024
	AD-here 77-00	Chemical Additive	x			2022
	AD-here XL9000	Chemical Additive	x			2022

### Qualified Product Lists – Continued

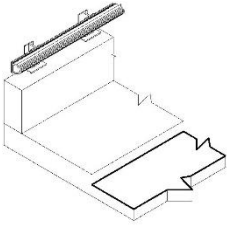
Manufacturer/Supplier	Technology/Product	Product Category	ASA	WM A	Dual Purpose	PEAS Eval. Year
ArrMaz Products Inc. 6502 South Yale Ave Tulsa, OK, 74136	Warm Grip® Ultra SE1	Chemical Additive			x	2022
	Warm Grip® Ultra	Chemical Additive			x	2020
	Cecabase RT	Chemical Additive			x	
Cargill 13400 15 <sup>th</sup> Ave N, Suite B Plymouth, MN 55441	Anova 1501	Chemical Additive			x	2022
Chemoran 7374 MainStreet Cincinnati, OH 45244	CWM-R	Chemical Additive			x	2024
Ingevity 5255 Virginia Ave North Charleston SC 29406	Evotherm S Series	Chemical Additive			x	2023
	Evotherm M Series	Chemical Additive		x		2023
Iterchimica SpA G. Marconi 21 Suisio Italy 24040	INTERLOW 2000	Chemical Additive		x		2024
	INTERLOW SL	Chemical Additive			x	2023
Nouryon 131 South Dearborn Street Chicago IL 60607-3885	Rediset LQ-1200A	Chemical Additive		x		2020
Zydex 106 Kitty Hawk Drive Morrisville NC 27560	ZycoTherm LS	Chemical Additive			x	2024
	ZycoTherm SP	Chemical Additive			x	2025

**Qualified Product(s): Non - Proprietary Roadside Safety Hardware**

**CTDOT'S NON-PROPRIETARY ROADSIDE SAFETY HARDWARE**


Parapets and Railing Designs for Bridges and Retaining Walls			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
42" SINGLE SLOPE CONCRETE PARAPET	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">42" SINGLE SLOPE CONCRETE PARAPET DRAWINGS</a>		
42" F-SHAPE CONCRETE PARAPET	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">42" F-SHAPE CONCRETE PARAPET DRAWINGS</a>		
42" VERTICAL CONCRETE PARAPET	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">42" VERTICAL CONCRETE PARAPET</a>		
42" CURB MOUNTED BRIDGE RAILING	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">3-Tube Curb Mount Bridge Rail</a>		
36" VERTICAL CONCRETE PARAPET WITH SIDEWALK	MASH 2016	TL-3	Eng. Analysis

**Qualified Product(s): Non - Proprietary Roadside Safety Hardware**

	
	Related Documents
	<a href="#">36" VERTICAL CONCRETE PARAPET WITH SIDEWALK</a>



[Table last revised on 8/24/21]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

Cable Barriers			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
THREE CABLE GUIDERAIL (I-BEAM POSTS)	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing Details HW-918_01a</a>		

NOTE; \*\* Device approved prior to implementation of MASH – Compliant Determination Process

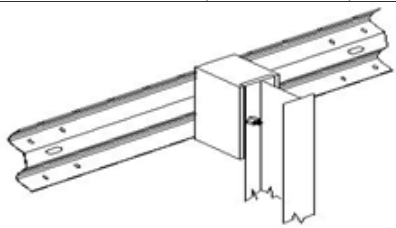
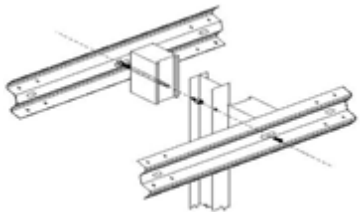
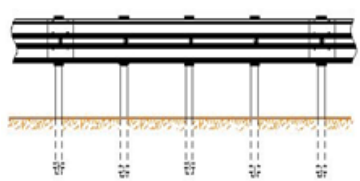

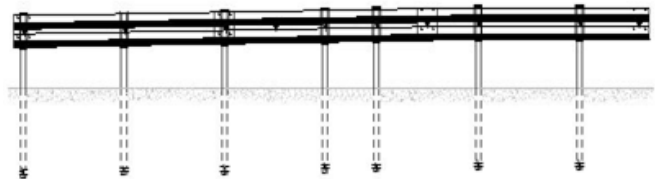
[Table last revised on 3/20/ 20]

Cable Barriers Terminal Ends			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
THREE CABLE END ANCHOR TYPE I	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing Details HW-918_01b &amp; 01c</a>		
THREE CABLE TRAILING END ATTACHMENT			**
			
	Related Documents		
	<a href="#">Hardware Drawing Details HW-918_01b</a>		

NOTE; \*\* Device approved prior to implementation of MASH – Compliant Determination Process


[Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

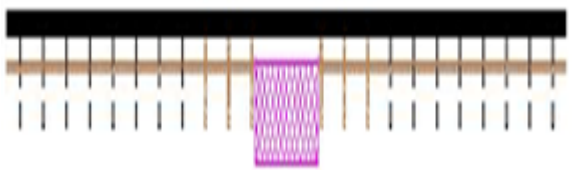
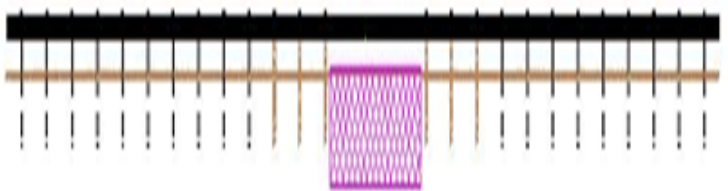
METAL BEAM RAIL ( TYPE )			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
METAL BEAM RAIL ( R-B MASH ) GUIDERAIL	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing Details HW-910_21</a>		
METAL BEAM RAIL ( MD-MASH ) GUIDERAIL	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing Details HW-910_22</a>		
METAL BEAM RAIL ( R-B MASH ) HALF – POST SPACING	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing Details HW-910_23</a>		
METAL BEAM RAIL ( R-B MASH ) QUARTER POST SPACING	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing HW-910_23</a>		
METAL BEAM RAIL TRANSITION 350 TO MASH	NCHRP 350	TL-3	**
	Related Documents		
	<a href="#">Hardware Drawing HW-910_25</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

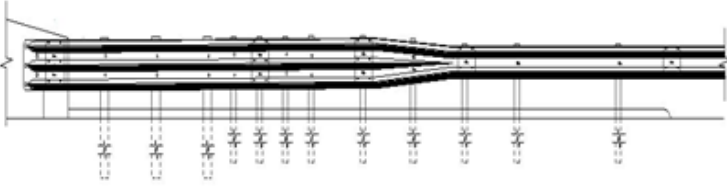




METAL BEAM RAIL ( TYPE )			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
METAL BEAM RAIL 8" x 6" BOX BEAM	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_10</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

METAL BEAM RAIL SPAN SECTION ( TYPE II OR III )			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
METAL BEAM RAIL SPAN SECTION TYPE II	MASH 2016	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_24</a>		
METAL BEAM RAIL SPAN SECTION TYPE III	MASH 2016	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_24</a>		

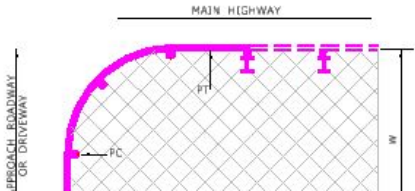
Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware


(TYPE) ATTACHMENTS			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
THRIE-BEAM ATTACHMENT	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing HW-910_27</a>		
R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	NCHRP 350	TL-3	**
	* FOR REPAIR ONLY UNLESS SPECIFIED ON CONTRACT DRAWING*		
	Related Documents		
	<a href="#">Hardware Drawing HW-910_06</a>		
R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	NCHRP 350	TL-3	**
	* FOR REPAIR ONLY UNLESS SPECIFIED ON CONTRACT DRAWING*		
	Related Documents		
	<a href="#">Hardware Drawing HW-910_07</a>		
MD-350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	NCHRP 350	TL-3	**
	Related Documents		
	<a href="#">Hardware Drawing HW-910_15</a>		
MD-350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	NCHRP 350	TL-3	**
	Related Documents		
	<a href="#">Hardware Drawing HW-910_16</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]


## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

<b>(TYPE) CURVED GUIDE RAIL TREATMENT</b>			
<b>ROADSIDE SAFETY HARDWARE</b>	<b>Testing Criteria</b>	<b>Test Level</b>	<b>Approval Basis</b>
CURVED GUIDERAIL TREATMENT	NCHRP 230	TL-2	**
	Related Documents		
	<a href="#">Hardware Drawing HW-910_11</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]


<b>R-B TERMINAL SECTION</b>			
<b>ROADSIDE SAFETY HARDWARE</b>	<b>Testing Criteria</b>	<b>Test Level</b>	<b>Approval Basis</b>
R-B TERMINAL SECTION	NCHRP 350	TL-2	**
	Related Documents		
	<a href="#">Hardware Drawing HW-910_17</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 8/17/21]


<b>(TYPE) END ANCHORAGE TYPE I</b>			
<b>ROADSIDE SAFETY HARDWARE</b>	<b>Testing Criteria</b>	<b>Test Level</b>	<b>Approval Basis</b>
R-B END ANCHORAGE TYPE I			**
	<b>* NOT CRASHWORTHY *</b>		
	<b>LOCATE OUTSIDE CLEAR ZONE</b>		
	Related Documents		
	<a href="#">Hardware Drawing HW-911_01</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]



## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

(TYPE) END ANCHORAGE TYPE II			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
R-B END ANCHORAGE TYPE II			**
	<b>* NOT CRASHWORTHY *</b>		
	<b>LOCATE OUTSIDE CLEAR ZONE</b>		
	Related Documents		
	<a href="#">Hardware Drawing HW-911_01</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

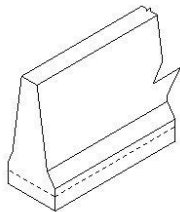
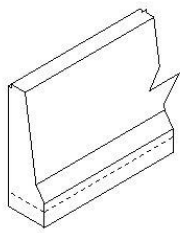
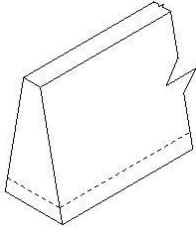
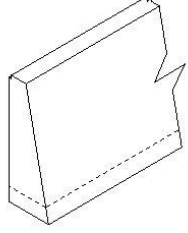
(TYPE) END ANCHORAGE			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
BOX BEAM END ASSEMBLY	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_10</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

ANCHOR IN (TYPE) SLOPE			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
ANCHOR IN ROCK CUT SLOPE			**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-911_03</a>		
ANCHOR IN EARTH CUT SLOPE	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-911_03</a>		

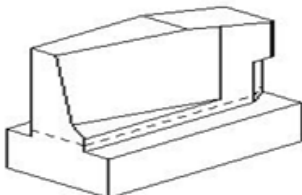
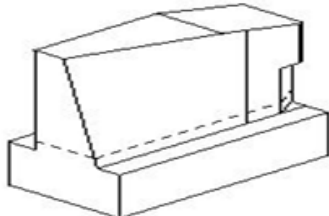
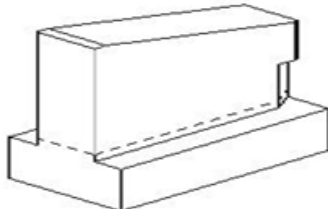
Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

PRECAST CONCRETE BARRIER CURB			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
F-SHAPE PRECAST CONCRETE BARRIER CURB ( 30" x 45" )			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents <a href="#">Hardware Drawing HW-821_02a &amp; 02b</a>		
F-SHAPE PRECAST CONCRETE BARRIER CURB ( 21" x 45" )			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents <a href="#">Hardware Drawing HW-821_02a &amp; 02b</a>		
SINGLE SLOPE PRECAST CONCRETE BARRIER CURB ( 28" x 42" )			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents <a href="#">Hardware Drawing HW-821_11a &amp; 11b</a>		
SINGLE SLOPE PRECAST CONCRETE BARRIER CURB ( 28" x 42" )			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents <a href="#">Hardware Drawing HW-821_11a &amp; 11b</a>		


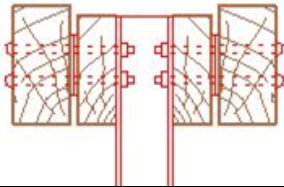


[Table last revised on 3/20/ 20]

**Qualified Product(s): Non - Proprietary Roadside Safety Hardware**

PRECAST CONCRETE BARRIER CURB			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
F-SHAPE PRECAST CONCRETE BARRIER CURB FOR THRIE-BEAM ATTACHMENT			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing HW-821_08a &amp; 08b</a>		
SINGLE SLOPE PRECAST CONCRETE BARRIER CURB FOR THRIE-BEAM ATTACHMENT			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing HW-821_09a &amp; 09b</a>		
VERTICAL PRECAST CONCRETE BARRIER CURB FOR THRIE-BEAM ATTACHMENT			
	MASH 2016	TL-4	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing HW-821_10a &amp; 10b</a>		



[Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware



MERRITT PARKWAY RAIL TYPE			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
MERRITT PARKWAY GUIDERAIL	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12a&amp;b</a>		
MERRITT PARKWAY MEDIAN GUIDERAIL	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12d</a>		
MERRITT PARKWAY GUIDERAIL SYSTEMS 2	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12a</a>		
MERRITT PARKWAY GUIDERAIL SYSTEMS 3	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12a</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware




MERRITT PARKWAY RAIL TYPE			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
MERRITT PARKWAY MEDIAN CONCRETE BARRIER	NCHRP 350	TL-3	Eng. Analysis
			
	Related Documents		
	<a href="#">Hardware Drawing HW-821_04b</a>		
MERRITT PARKWAY NARROW CONCRETE BARRIER	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-821_04a</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]


MERRITT PARKWAY (TYPE) ATTACHMENT			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENT	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12a</a>		
MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENT			**
			
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12c</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware


MERRITT PARKWAY END ANCHORAGE (TYPE)			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
MERRITT PARKWAY GUIDERAIL END ANCHOR TYPE I			**
	<b>* NOT CRASHWORTHY *</b>		
	<b>LOCATE OUTSIDE CLEAR ZONE</b>		
	Related Documents		
	<a href="#">Hardware Drawing HW-911_05</a>		
MERRITT PARKWAY GUIDERAIL END ANCHOR TYPE II			**
	<b>* NOT CRASHWORTHY *</b>		
	<b>LOCATE OUTSIDE CLEAR ZONE</b>		
	Related Documents		
	<a href="#">Hardware Drawing HW-911_05</a>		
MERRITT PARKWAY GUIDERAIL END ANCHOR TYPE III	NCHRP 350	TL-3	Eng. Analysis
			
	Related Documents		
	<a href="#">Hardware Drawing HW-911_05</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

MERRITT PARKWAY MEDIAN GUIDERAIL END ANCHORAGE			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
MERRITT PARKWAY MEDIAN GUIDERAIL END ANCHORAGE			**
	<b>* NOT CRASHWORTHY *</b>		
	<b>LOCATE OUTSIDE CLEAR ZONE</b>		
	Related Documents		
	<a href="#">Hardware Drawing HW-910_12d</a>		

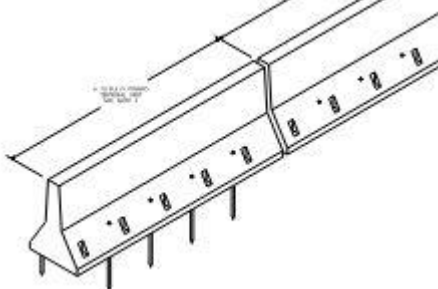
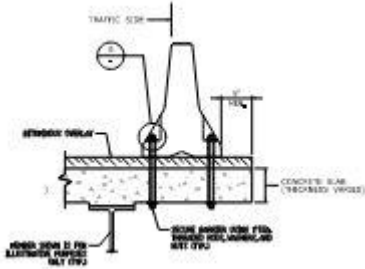

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

SIGN SUPPORT			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
METAL SIGN POSTS	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Sign Post Hardware Drawing TR-1208_02</a>		
BREAKAWAY SIGN SUPPORT	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Breakaway Sign Supports Hardware</a>		
BREAKAWAY LUMINAIRE TRANSFORMER BASE	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Light Standard Hardware</a>		
PEDESTAL BASE	NCHRP 350	TL-3	**
			
	Related Documents		
	<a href="#">Pedestal Base TR-1102_01</a>		
	<a href="#">Traffic Control Foundation Pedestal - Type I - Precast TR-1002_01</a>		

Note: \*\* Device approved prior to implementation of MASH-Compliant Determination Process [Table last revised on 3/20/ 20]

## Qualified Product(s): Non - Proprietary Roadside Safety Hardware

TEMPORARY WORKZONE DEVICES			
ROADSIDE SAFETY HARDWARE	Testing Criteria	Test Level	Approval Basis
Temporary Traffic Barrier	MASH 2016	TL-3	Eng. Analysis
Temporary Traffic Barrier (Pinned)	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing No. HW-822_02c</a>		
Temporary Traffic Barrier (Bolted)	MASH 2016	TL-3	Eng. Analysis
	Related Documents		
	<a href="#">Hardware Drawing No. HW-822_02b</a>		
Temporary Precast Concrete Barrier Curb	NCHRP 350	TL-3	***
	Related Documents		
	<a href="#">Hardware Drawing HW-822_01</a>		

[Table last revised on 8/6/21]

Note: \*\*\* Any Temporary Work zone device manufactured on or before December 31,2019 and successfully tested to NCHRP Report 350 or the 2009 Edition of MASH, may be used throughout their normal service life.

## Bureau of Highway Operations Qualified Products

### CTDOT BUREAU OF HIGHWAY OPERATIONS QUALIFIED PRODUCTS LIST

#### Pre-packaged, Concrete Repair Material -- for Use by Office of Maintenance only

**SPECIFICATION:** All material types shall be furnished in pre-packaged containers or bags with all the ingredients necessary for the proper mixing of the material included, except for water or admixtures. See below for material requirements.

**ACCEPTANCE:** Submitted products will be reviewed for acceptance pending the results of a one-year long test trial installation. The test trial shall be at a site in CT designated by the Department with material furnished by the manufacturer and attended by a Manufacturer's Technical representative to advise on recommended installation procedures and address installation questions.

**PROVISIONS FOR CONTINUANCE ON QPL:** Product will be continually monitored for satisfactory performance; unsatisfactory performance will result in product's removal from qualified list. Additionally, re-formulation of product will negate previous incorporation on the list and the product will need to be re-evaluated (including new test trial installation) with positive results prior to re-instatement on Qualified Product List.

#### **MATERIAL CATEGORIES:**

- 1) TYPE 1 MATERIAL for CONCRETE DECK REPAIRS shall be a fast-setting repair material intended for repairs of concrete bridge decks.

##### PRE-APPROVAL CRITERIA:

The material shall meet or exceed the following performance requirements:

Compressive Strength	ASTM C39	3-hour – 3,000psi 7-day – 5,000psi 28-day – 6,000psi
Aggregate Soundness	ASTM C88 using Mag.Sulfate	max.10% loss after 5 cycles
Aggregate Abrasion Loss	ASTM C131	max. 40% loss

- 2) TYPE 2 MATERIAL for STRUCTURAL CONCRETE REPAIRS shall be a material intended for the repair of structural concrete elements.

**Continued on Next Page:**

## Bureau of Highway Operations Qualified Products

### Prepackaged Concrete Repair Material - Continued:

PRE-APPROVAL CRITERIA:

The material shall meet or exceed the following performance requirements:

Compressive Strength	ASTM C39	7-day – 5,000psi 28-day – 6,000psi
Aggregate Soundness	ASTM C88 using Mag.Sulfate	max.10% loss after 5 cycles
Aggregate Abrasion Loss	ASTM C131	max. 40% loss

- 3) TYPE 3 MATERIAL for COLD-WEATHER CONCRETE REPAIRS shall be a material intended for the repair of concrete elements in temperatures down to 10 deg Fahrenheit.

PRE-APPROVAL CRITERIA:

The material shall meet or exceed the following performance requirements:

Compressive Strength	ASTM C39	7-day – 5,000psi 28-day – 6,000psi
Aggregate Soundness	ASTM C88 using Mag.Sulfate	max.10% loss after 5 cycles
Aggregate Abrasion Loss	ASTM C131	max. 40% loss

Manufacturer/Supplier	Product Brand Name	Type Category Allowed Use
Kwik Bond Polymers 923 Teal Drive Benicia, CA 94510 Telephone: 724-718-5678 E-Mail: <a href="mailto:tzur@kwikbondpolymers.com">tzur@kwikbondpolymers.com</a> Website: <a href="http://www.kwikbondpolymers.com">www.kwikbondpolymers.com</a>	PPC-1121	Type 1 & Type 3
Quikrete Companies, LLC Five Concourse Parkway Atlanta, GA 30328 <a href="http://www.quickrete.com">www.quickrete.com</a>	Rapid Road Repair – CA Extended	Type 1
Quikrete Companies, LLC Five Concourse Parkway Atlanta, GA 30328 <a href="http://www.quickrete.com">www.quickrete.com</a>	Form and Pour Concrete Mix MS	Type 3
Sakrete of North America 625 Griffith Road Suite 100 Charlotte, NC 28217 <a href="http://www.sakrete.com">www.sakrete.com</a>	Pro Mix Accelerated Concrete Mix	Type 1 & Type 2

**Bureau of Highway Operations Qualified Products**

US Mix Company 112 South Santa Fe Drive Denver, CO 80223 <a href="http://www.usmix.com">www.usmix.com</a>	Transpatch Concrete  SC Concrete	Type 1  Type 1
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[ Table Last Revised 2/14/23 ]

## **Bureau of Highway Operations Qualified Products**

### **Bituminous Concrete Patching Materials (Cold Applied)**

**SPECIFICATION:** REFERENCE FILE No. 2011-01

**PREQUALIFICATION CRITERIA:** Compliance with Section 22a-174-20(k) of the Regulations of Connecticut State Agencies (DEEP). Material must be supplied as a bulk mixture capable of being stockpiled outdoors unprotected and workable for a period no less than 6 months after delivery.

<b>Manufacturer/Supplier</b>	<b>Product Brand Name</b>
B. Metcalf Asphalt Mr. Benjamin Metcalf 235 East Canaan Rd East Canaan, CT 06024 Website: <a href="http://www.bmetcalfasphalt.com">www.bmetcalfasphalt.com</a>	GemPatch
Cold Mix Manufacturing Corp. Mr. Dario Amicucci 65 Edison Avenue Mount Vernon, NY 10550 Office Telephone: 800-985-9192 Website: <a href="http://www.GREENPATCH.com">www.GREENPATCH.com</a>	GreenPatch
The EZ Street Company Mr. Tom Francione 1786 NW 82 Avenue Miami, FL 33126 Website: <a href="http://www.ezstreetasphalt.com">www.ezstreetasphalt.com</a>	EZ Street Cold Asphalt
Green Asphalt Company Mr. John Walsh 37-98 Railroad Avenue Long Island City, New York 11101 Website: <a href="https://www.patchitco.com/">https://www.patchitco.com/</a>	Patch IT

[ Table Last Revised 10/1/25]

**Bureau of Highway Operations Qualified Products**

**Bituminous Concrete Patching Materials (Cold Applied) - Continued:**

<b>Manufacturer/Supplier</b>	<b>Product Brand Name</b>
Aquaphalt - RoadStone Production 1230 River Rd. Charlottesville, VA. 22901 Website: <a href="http://www.aquaphalt.com">www.aquaphalt.com</a>	Aquaphalt
CONTACT-NO Tri-Products, LLC Mr. Mike Jennings - still on website 89 Ship Street Providence, RI 02903 Website: <a href="http://www.hudsoncompanies.com">www.hudsoncompanies.com</a>	Plus Patch Asphalt Emulsion
Logan County Asphalt Mr. Steven McBride 2905 Commerce Boulevard Guthrie, OK 73044 Website: <a href="http://www.prolinecoldasphalt.com">www.prolinecoldasphalt.com</a>	ProLine Cold Asphalt Patching Material
Quality Pavement Repair Mr. Anthony J. Fagnoli 154 Bouckhart Avenue Rochester, NY 14622 Website: <a href="http://www.qprcoldpatch.com">www.qprcoldpatch.com</a>	QPR
UNIQUE Paving Materials Corp Mr. Brandon Holm 3993 East 93 <sup>rd</sup> Street Cleveland, OH 44105 Telephone: 603-361-7386 Email: <a href="mailto:BHolm@uniquepavingmaterials.com">BHolm@uniquepavingmaterials.com</a> Website: <a href="http://www.uniquepavingmaterials.com">www.uniquepavingmaterials.com</a>	UPM Permanent Pavement Repair Material

[ Table Last Revised 2/7/23 ]