

Manufacturers, vendors, or suppliers that wish to be added to the Department's approved lists are to contact the Materials and Research section at DOT_APL@Delaware.gov.

Approved Product Lists:

- Asphalt Release Agents
- Breakaway I-Beam
- Concrete Admixtures
- Concrete Curing Compounds
- Detectable Warning Surfaces and Directional Tactile Surface Indicators
- Guardrail End Terminals
- Guardrail Hardware
- High Tension Cable Barrier
- Hot Applied Joint and Crack Sealants
- Pavement Markings
- Permanent Impact Attenuators
- Preformed Flexible Joint Sealant
- Rolled Erosion Control Products
- Sign Panels
- Silane Sealers
- Tack Coat
- Temporary Traffic Control Devices

Acceptance Programs:

- Asphalt Release Agents
- Concrete Admixtures
- Concrete Curing Compounds
- Highway Safety Hardware and TTC
- Hot Applied Joint and Crack Sealant
- Pavement Markings
- Preformed Flexible Joint Sealant
- Sign Panels
- Silane Sealers
- Tack Coat

Delaware Department of Transportation Approved Products List Asphalt Release Agents (Section 1010)

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* Inclusion on this APL does not constitute Buy America preference compliance

Delaware Department of Transportation Approved Products List
Breakaway I-Beam Sign Hardware

Pay Item Number/ Specification Section	Device	Manufacturer	Product Name	Crash Test Standard	Test Level	FHWA Eligibility Letter
820014 820015 820016	Bolt Kit for Breakaway Coupling Hinge Plate for Breakaway Coupling Breakaway Coupling Kit	Transpo Industries, Inc.	Break-Safe Omni-Directional Breakaway Sign Support System	NCHRP-350	TL-3	SS-17
						April 1999 FHWA Letter

Delaware Department of Transportation
Approved Products List
Concrete Admixtures

Air Entrainment Agents

Manufacturer	Product Name	NTPEP #	Approval Date
Master Builders Solutions Admixtures US, LLC	MasterAir AE 90	CADD-2020-01-067	8/29/2024
Sika Corporation	Sika AEA-14	CADD-2020-01-138	8/29/2024
Great Eastern Technologies LLC	Setcon 6A	CADD-2020-01-084	8/29/2024
Great Eastern Technologies LLC	AIR-RIGHT	CADD-2020-01-086	8/29/2024
GCP Applied Technologies (WR Grace)	Daravair AT30	CADD-2018-01-064	8/29/2024
GCP Applied Technologies (WR Grace)	Daravair 1000	CADD-2018-01-063	8/29/2024

Type A - Water-Reducing Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
Master Builders Solutions Admixtures US, LLC	MasterPozzoloth 700	CADD-2019-01-055	8/29/2024
Sika Corporation	Sika ViscoFlow 2020	CADD-2021-01-182	8/29/2024
Sika Corporation	Sika Plastocrete-250	CADD-2021-01-183	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterPozzoloth 200	CADD-2018-01-032	8/29/2024
GCP Applied Technologies (WR Grace)	ADVA CAST 600	CADD-2017-01-030	8/29/2024
Chryso, Inc	CHRYSO Optima 249	CADD-2018-01-110	8/29/2024
Sika Corporation	Sika Plastocrete-161	CADD-2020-01-120	8/29/2024
Sika Corporation	Sika ViscoCrete-2100	CADD-2019-01-133	8/29/2024

Type B - Retarding Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date

Type C - Accelerating Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
GCP Applied Technologies (WR Grace)	DaraSet 400	CADD-2021-01-163	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterSet AC 534	CADD-2021-01-005	8/29/2024
AVR, inc.	Pozzoloth NC 534 HE		

Type D - Water-Reducing and Retarding Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
Master Builders Solutions Admixtures US, LLC	MasterSet DELVO	CADD-2018-01-039	8/29/2024
Sika Corporation	Plastiment	CADD-2019-01-070	8/29/2024
Great Eastern Technologies LLC	Chemstrong R	CADD-2020-01-082	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterSet R 100	CADD-2021-01-073	8/29/2024

Type E - Water-Reducing and Accelerating Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
Sika Corporation	Sikaset NC	CADD-2019-01-071	8/29/2024

Delaware Department of Transportation
Approved Products List
Concrete Admixtures

Type F - Water-Reducing, High Range Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
Master Builders Solutions Admixtures US, LLC	MasterRheobuild 1000	CADD-2019-01-060	8/29/2024
Sika Corporation	Sika ViscoCrete-2100	CADD-2019-01-134	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterGlenium 3030	CADD-2020-01-071	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterGlenium 3400	CADD-2020-01-073	8/29/2024
Sika Corporation	Sika ViscoFlow 2020	CADD-2021-01-001	8/29/2024
Great Eastern Technologies LLC	Polystrong HP	CADD-2020-01-085	8/29/2024
GCP Applied Technologies (WR Grace)	ADVA Cast 555	CADD-2022-01-029	8/29/2024
GCP Applied Technologies (WR Grace)	ADVA Cast 575	CADD-2022-01-024	8/29/2024
GCP Applied Technologies (WR Grace)	ADVA Cast 585	CADD-2022-01-028	8/29/2024
GCP Applied Technologies (WR Grace)	ADVA CAST 600	CADD-2021-01-095	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterGlenium 7500	CADD-2022-01-112	8/29/2024
Master Builders Solutions Admixtures US, LLC	MasterGlenium 7710	CADD-2020-01-075	8/29/2024
Chryso, Inc	CHRYSO Optima 249	CADD-2018-01-111	8/29/2024
Sika Corporation	Sika ViscoCrete-4100	CADD-2021-01-185	8/29/2024

Type G - Water-Reducing, High Range and Retarding Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date

Type S - Specific Performance Admixtures

Manufacturer	Product Name	NTPEP #	Approval Date
Master Builders Solutions Admixtures US, LLC	MasterCast 900	CADD-2020-01-060	8/29/2024
Sika Corporation	SikaMix PL-100	N/A	8/29/2024

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Delaware Department of Transportation

Approved Products List

Concrete Curing Compound

Type 2 Sprayable Curing Compound (ASTM C309 Type 2)

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Delaware Department of Transportation
Approved Products List
Truncated Dome Detectable Warning Surfaces (DWS) - 705007 & 705013

DWS Type - Precast Concrete

Manufacturer	Product Name	Color(s)	Approval Date
Nitterhouse Masonry Products, LLC	VIP Pavers	Dark Gray (PG-4), Light Gray (PG-7), Red (PG-8), Yellow (PG-65)	3/13/2024
Hanover Architectural Products	Detectable Warning Paver	Charcoal, Red, Yellow	3/13/2024

DWS Type - Fired Clay Brick Paver Units

Manufacturer	Product Name	Color(s)	Approval Date

DWS Type - Cast Iron Plates

Manufacturer	Product Name	Color(s)	Approval Date
Neenah Enterprises, Inc.	Detectable Warning Plate	Federal yellow, Brick Red, Dark Gray, Black	8/27/2024
East Jordan Iron Works	DURALAST 7005	Natural, Brick Red, Federal Yellow, Black	8/27/2024

DWS Type - Polymer Composite

Manufacturer	Product Name	Color(s)	Approval Date

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Delaware Department of Transportation
Approved Products List
Directional Tactile Surface Indicators (DTSI) - 705012

DTSI Type - Precast Concrete

Manufacturer	Product Name	Color(s)	Approval Date
Nitterhouse Masonry Products, LLC	VIP Pavers	Dark Gray (PG-4), Light Gray (PG-7), Red (PG-8), Yellow (PG-65)	3/13/2024

DTSI Type - Fired Clay Brick Paver Units

Manufacturer	Product Name	Color(s)	Approval Date

DTSI Type - Cast Iron Plates

Manufacturer	Product Name	Color(s)	Approval Date

DTSI Type - Polymer Composite

Manufacturer	Product Name	Color(s)	Approval Date

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**Delaware Department of Transportation
Approved Products List
Guardrail End Treatments**

721000 - Guardrail End Treatment, Type 1-31, Test Level 2

Manufacturer	Product Name	Approval Date
Road Systems, Inc.	MASH-compliant Sequential Kinking Terminal (MSKT) - TL-2	N/A

721001 - Guardrail End Treatment, Type 1-31, Test Level 3

Manufacturer	Product Name	Approval Date
Lindsay Transportation Solutions, LLC	MAX-Tension - TL-3 End Treatment	N/A
Road Systems, Inc.	MASH-compliant Sequential Kinking Terminal (MSKT) - TL-3	N/A
Valtir	SoftStop System - TL-3	N/A

721002 - Guardrail End Treatment, Type 2-31, Test Level 2

Manufacturer	Product Name	Approval Date

721003 - Guardrail End Treatment, Type 2-31, Test Level 3

Manufacturer	Product Name	Approval Date
Road Systems, Inc.	Flared Energy Absorbing Terminal (MFLEAT)	N/A

721004 - Guardrail End Treatment, Type 3-31

Manufacturer	Product Name	Approval Date
Lindsay Transportation Solutions, LLC	MAX-Tension Median End Treatment	N/A
Valtir	Median Attenuating Trend Terminal (MATT)	N/A

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** For a product to remain eligible for DeIDOT's APL it must continue to meet specification requirements and provide adequate field performance

**Delaware Department of Transportation
Approved Products List
Guardrail Hardware**

720.2.G.2 - Composite Offset Blocks

Manufacturer	Product Name	Approval Date
Valtir	Recycled Composite Offset Block, 8"	N/A
Valtir	Recycled Composite Offset Block, 12"	N/A
Mondo Polymer Technologies, Inc.	Recycled Composite Offset Block, 8"	N/A
Mondo Polymer Technologies, Inc.	Recycled Composite Offset Block, 12"	N/A

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Delaware Department of Transportation
Approved Products List
High Tension Cable Barrier

722001 - High Tension Cable Barrier

Manufacturer	Product Name	Approval Date
Gibraltar Global	MASH 2016 TL4 Cable Barrier System	11/25/2024

722002 - High Tension Cable Barrier End Terminal

Manufacturer	Product Name	Approval Date
Gibraltar Global	MASH 2016 TL3 4 Cable End Terminal	11/25/2024

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Delaware Department of Transportation

Approved Products List

Joint and Crack Sealant

Hot Applied Sealants (ASTM D6690 Type II)	
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Delaware Department of Transportation
Approved Products List
Pavement Marking Material (2020 and 2016 Standard Specifications)

Latex Paint

Material requires Glass Beads. See below for acceptable products for this material.

Item #	Item Description	Approved Pavement Marking Material (in accordance with 1071.1)	
		Manufacturer	Code (Color)
817001	PAINTING OF WHITE OR YELLOW, SYMBOL/LEGEND	AEXCEL CORPORATION PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. SHERWIN WILLIAMS SHERWIN WILLIAMS	72W-A042 (White) 980801 (White) 980802 (Yellow) TM2308 (White) TM2309 (Yellow)
817003	TEMPORARY MARKINGS, PAINT, 4"		
817004	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND		
817026	PAINTING OF WHITE OR YELLOW, 5" LINE		
817047	PAINTING OF WHITE OR YELLOW, 6" LINE		
817048	PAINTING OF WHITE OR YELLOW, 10" LINE		
817049	PAINTING OF WHITE OR YELLOW, 12" LINE		

Epoxy Paint

Material requires Glass Beads. See below for acceptable products for this material.

Item #	Item Description	Approved Pavement Marking Material (in accordance with 1071.2)	
		Manufacturer	Code (Color)
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	EPOPLEX EPOPLEX EPOPLEX OLIN POLY-CARB OLIN POLY-CARB OLIN POLY-CARB PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC.	LS50 (White) LS50 (Yellow) LS50 (Black) MARK-55.3 (White) MARK-55.3 (Yellow) MARK-55.3 (Black) HPS-3 (White) HPS-3 (Yellow) HPS-3 (Black)
817014	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"		
817018	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"		
817019	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 5"		
817024	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 9"		
817025	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 14"		
817036	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 6"		
817042	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 6"		
817043	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 12"		
817044	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 6"		
817045	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 10"		
817046	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 16"		

Alkyd Type Thermoplastic			
Material requires Glass Beads. See below for acceptable products for this material.			
Item #	Item Description	Approved Pavement Marking Material (in accordance with 1071.3.1)	
		Manufacturer	Code (Color)
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	CROWN USA INC CROWN USA INC PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. SWARCO SWARCO	TuffLine 01 - WAX - BADA (White)
817005	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"		EcoTherm 01 – YAX – AADA (Yellow)
817006	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"		884455 (W5E-5BX-DE) (White)
817037	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 4"		884490 (W5E-5GX-DE) (White)
817038	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 6"		883110 (ET4 – AK - SX - YNL – 1) (Yellow)
817040	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 6"		884685 (Yellow)
817041	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 10"		2633 XWARX (White) 2663 XYARX (Yellow)
Preformed Thermoplastic Striping			
Item #	Item Description	Approved Pavement Marking Material (in accordance with 1071.3.2)	
		Manufacturer	Code (Color)
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. PPG/ ENNIS-FLINT, INC. SWARCO (ASPHALT ONLY) SWARCO (ASPHALT ONLY)	PREMARK (White)
817016	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, PEDESTRIAN SYMBOL		PREMARK (Yellow)
	817017		PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, HANDICAP SYMBOL
			NO PREHEAT (White)
			NO PREHEAT (Yellow)
Pavement Marking Tape - Preformed Tape			
Item #	Item Description	Approved Pavement Marking Material (in accordance with 1071.3.3.C)	
		Manufacturer	Code (Color)
817007	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 12"	3M COMPANY 3M COMPANY 3M COMPANY 3M COMPANY 3M COMPANY 3M COMPANY 3M COMPANY	380 AW (White)* 381 AW (Yellow)* 380IES (White)** 381IES (Yellow)** 380IES-5 (White-Black)
817012	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND		
817020	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 5"		
817021	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10"		
817022	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 8"		
817023	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 13"		
817034	RETROREFLECTIVE PERFORMED PATTERNED MARKINGS, 9"		
817035	RETROREFLECTIVE PERFORMED PATTERNED MARKINGS, 4"		
* Type 380 AW and 381 AW is to be used for longitudinal lines only.			
** Type 380I-ES and 381I-ES is to be used for all transverse lines, mini skips, arrows and symbols.			

Raised Pavement Markers			
Item #	Item Description	Manufacturer - Code/ Model	
817027	RAISED/RECESSED PAVEMENT MARKER	PPG/ ENNIS-FLINT, INC. - Stimsonite Model 101LPCR with Model C40 reflective pavement marker	
Raised Pavement Marker Replacement Reflectors			
Item #	Item Description	Manufacturer - Code/ Model	
817028	REPLACEMENT OF RAISED/RECESSED PAVEMENT MARKER LENS	3M COMPANY - Series 190 Reflective Lenses	
		PPG/ ENNIS-FLINT, INC. – Stimsonite Model C40 Reflective Lenses	
Glass Beads			
Notes:		Manufacturer	Code
1. Product must meet the requirements contained in 1071.4. 2. Glass Beads are required for Latex Paint, Epoxy Paint, and Alkyd Type Thermoplastic. 3. All beads furnished shall be moisture proof		POTTERS INDUSTRIES INC.	AASHTO M-247 TYPE 1 80% ROUNDS
		POTTERS INDUSTRIES INC.	AASHTO M-247 TYPE 4 LARGE BEAD
		SWARCO REFLEX	AASHTO M-247 TYPE 1 80% ROUNDS
		SWARCO REFLEX	AASHTO M-247 TYPE 4 LARGE BEAD

Notes:

Suppliers that wish to submit products for Department consideration for inclusion on the Approved Products List are to contact the Department's Materials and Research Section at 302-760-2400.

DelDOT reserves the right to remove a product from the APL or change its classification when field performance proves the product is unsatisfactory.

THE STATE OF DELAWARE IS A LEAD – FREE STATE! ALL PAVEMENT MARKINGS USED IN DELAWARE SHALL BE LEAD – FREE.

Delaware Department of Transportation
Approved Products List
Pavement Marking Material (2025 Standard Specifications)

1071.1.1 - Latex Paint (Section 860)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
AEXCEL CORPORATION	72W-A042 (White)	NA	11/26/2024
PPG/ ENNIS-FLINT, INC.	980801 (White)	PMM-2000PA-109	11/26/2024
PPG/ ENNIS-FLINT, INC.	980802 (Yellow)	PMM-2000PA-115	11/26/2024
SHERWIN WILLIAMS	TM2308 (White)	NA	11/26/2024
SHERWIN WILLIAMS	TM2309 (Yellow)	NA	11/26/2024

1071.2.1 - Epoxy Paint (Section 861)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
EPOPLEX	LS50 (White, Yellow, and Black)	PMM-2024-01-090 PMM-2024-01-089	11/26/2024
OLIN POLY-CARB	MARK-55.3 (White, Yellow, and Black)	PMM-2022-01-068 PMM-2022-01-069	11/26/2024
PPG/ ENNIS-FLINT, INC.	HPS-3 (White, Yellow, and Black)	PMM-2018-01-120 PMM-2018-01-121	11/26/2024

1071.3.1 - Alkyd Type Thermoplastic Striping Material (Section 862)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
CROWN USA INC	TuffLine 01 - WAX - BADA (White)	PMM-2015-02-082	11/26/2024
CROWN USA INC	EcoTherm 01 – YAX – AADA (Yellow)	PMM-2015-02-083	11/26/2024
PPG/ ENNIS-FLINT, INC.	884455 (W5E-SBX-DE) (White)	PMM-2018-01-128	11/26/2024
PPG/ ENNIS-FLINT, INC.	884490 (W5E-SGX-DE) (White)	PMM-2018-01-128	11/26/2024
PPG/ ENNIS-FLINT, INC.	883110 (ET4 – AK - SX - YNL – 1) (Yellow)	PMM-2018-01-130	11/26/2024
PPG/ ENNIS-FLINT, INC.	884685 (Yellow)	PMM-2018-01-129	11/26/2024
SWARCO	2633 XWARX (White)	PMM-2017-01-051	11/26/2024
SWARCO	2663 XYARX (Yellow)	PMM-2017-01-052	11/26/2024

1071.4 - Preformed Thermoplastic Pavement Markings (Section 863)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
PPG/ ENNIS-FLINT, INC.	PREMARK (White)	PMM-2017-01-025	11/26/2024
PPG/ ENNIS-FLINT, INC.	PREMARK (Yellow)	PMM-2017-01-026	11/26/2024
PPG/ ENNIS-FLINT, INC.	PREMARK XF (White)	PMM-2019-01-064	11/26/2024
PPG/ ENNIS-FLINT, INC.	PREMARK XF (Yellow)	PMM-2019-01-065	11/26/2024
SWARCO	NO PREHEAT (White) (asphalt only)	PMM-2017-01-009	11/26/2024
SWARCO	NO PREHEAT (Yellow) (asphalt only)	PMM-2017-01-011	11/26/2024

1071.5 - Preformed Pavement Marking Tape (Section 864)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
3M COMPANY	380 AW (White) (for longitudinal lines only)	PMM-2020-01-009	11/26/2024
3M COMPANY	381 AW (Yellow) (for longitudinal lines only)	PMM-2020-01-003	11/26/2024
3M COMPANY	380IES (White) (for all transverse lines, mini skips, arrows and symbols)	PMM-2022-01-104	11/26/2024
3M COMPANY	381IES (Yellow) (for all transverse lines, mini skips, arrows and symbols)	PMM-2020-01-007	11/26/2024
3M COMPANY	380IES-5 (White-Black)	PMM-2022-01-102	7/21/2025

1071.8 - Raised/ Recessed Pavement Marker (867001)

Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
PPG/ ENNIS-FLINT, INC.	Stimsonite Model 101LPCR with Model C40 reflective pavement marker	RPM-2016-01-005	11/26/2024

Delaware Department of Transportation Approved Products List Pavement Marking Material (2025 Standard Specifications)			
1071.8 - Raised/ Recessed Pavement Marker Replacement Reflectors (867004)			
Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
3M COMPANY	Series 190 Reflective Lenses	NA	11/26/2024
PPG/ ENNIS-FLINT, INC.	Stimsonite Model C40 Reflective Lenses	RPM-2016-01-005	11/26/2024
1071.1.2, 1071.2.2, 1071.3.2 - Glass Beads			
Manufacturer	Product Name	PEAS # (FKA NTPEP)	Approval Date
POTTERS INDUSTRIES INC.	AASHTO M-247 TYPE 1 80% ROUNDS	NA	11/26/2024
POTTERS INDUSTRIES INC.	AASHTO M-247 TYPE 4 LARGE BEAD	NA	11/26/2024
SWARCO REFLEX	AASHTO M-247 TYPE 1 80% ROUNDS	NA	11/26/2024
SWARCO REFLEX	AASHTO M-247 TYPE 4 LARGE BEAD	NA	11/26/2024

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Delaware Department of Transportation Approved Products List Permanent Impact Attenuators		
724001 - Permanent Impact Attenuator, Type 1		
Manufacturer	Product Name	Approval Date
724002 - Permanent Impact Attenuator, Type 2		
Manufacturer	Product Name	Approval Date
Lindsay Transportation Solutions, LLC	Universal TAU-M MASH Crash Cushion (TL-2)	N/A
Valtir	QuadGuard M10 Test Level 2 System (3 Bay)	N/A
724003 - Permanent Impact Attenuator, Type 3		
Manufacturer	Product Name	Approval Date
Hill & Smith	SCI SmartCushion® TL-2 SCI70GM Impact Attenuator	N/A
724004 - Permanent Impact Attenuator, Type 4		
Manufacturer	Product Name	Approval Date
724005 - Permanent Impact Attenuator, Type 5		
Manufacturer	Product Name	Approval Date
Lindsay Transportation Solutions, LLC	Universal TAU-M MASH Crash Cushion (TL-3)	N/A
Valtir	QuadGuard M10 Test Level 3 System (6 Bay)	N/A
Valtir	QuadGuard M10 CZ 6-Bay, 24" Only	N/A
724006 - Permanent Impact Attenuator, Type 6		
Manufacturer	Product Name	Approval Date
Lindsay Transportation Solutions, LLC	TAU-XR Xpress Repair Crash Cushion	N/A
Valtir	QuadGuard Elite M10 (8 Bay)	N/A
Hill & Smith	SCI SmartCushion® TL-3 SCI100GM Impact Attenuator	N/A
724008 - Permanent Impact Attenuator, Wide Bay, Type 2		
Manufacturer	Product Name	Approval Date
724009 - Permanent Impact Attenuator, Wide Bay, Type 3		
Manufacturer	Product Name	Approval Date
724010 - Permanent Impact Attenuator, Wide Bay, Type 5		
Manufacturer	Product Name	Approval Date
Valtir	QuadGuard M Wide (6 Bay)	N/A
724011 - Permanent Impact Attenuator, Wide Bay, Type 6		
Manufacturer	Product Name	Approval Date
Valtir	QuadGuard Elite M10 Wide (8 Bay)	N/A

* Inclusion on this APL does not constitute Buy America preference compliance

** For a product to remain eligible for DelDOT's APL it must continue to meet specification requirements and provide adequate field performance

Delaware Department of Transportation
Approved Products List
Preformed Flexible Joint Sealants

1042.5.A - Precast Flexible Joint Sealants (ASTM C990)

Manufacturer	Product Name	Approval Date
ConSeal	ConSeal CS-102	11/25/2024

* Inclusion on this APL does not constitute Buy America preference compliance

** For a product to remain eligible for DelDOT's APL it must continue to meet specification requirements and provide adequate field performance

Approved Product List for Rolled Erosion Control Products

**Delaware Department of Transportation
Dover, DE 19901**

February 23, 2024

The Approved Product List (APL) is developed using data obtained from testing by the National Transportation Product Evaluation Program (NTPEP) Index Tests of Rolled Erosion Control Products (RECP), a cooperative effort by AASHTO, the Erosion Control Technology Council, and by manufacturers of rolled erosion control blankets. The APL is further scrutinized by the field performance of products that have been used extensively in projects by the Delaware Department of Transportation (DelDOT) with satisfactory results.

The following guidelines will be used for RECP selection:

1. On grass channels that have a maximum shear stress at design flow of less than or equal to 2 pounds per square foot (psf), all Erosion Control Blankets (ECB) will have predominately biodegradable, natural, organic fiber nettings as determined by DelDOT. These are short-term biodegradable blankets.
2. On grass channels that have a maximum shear stress at design flow greater than 2psf, only RECPs that are classified as long-term non-degradable blankets will be used. These products are termed Turf Reinforcement Mats (TRM).
2psf < TRM, Type 1 <= 6psf
6psf < TRM, Type 2 <= 8psf

Pre-approval procedures and the current APL may be obtained by writing to the E&S Engineer, Delaware Department of Transportation, 800 S. Bay Rd., Dover, DE 19901, calling 302 760-2259, or viewing DelDOT's web page at '<https://deldot.gov/Business/index.shtml>'.

DelDOT reserves the right to remove a product from the APL or change its' classification when field performance proves the product to be unsatisfactory.

Rolled Erosion Control Products
DelDOT Approved Product List, February 23, 2024

RECP Type, DelDOT Bid Item Number	Approved Products	
	Manufacturer	Product Name
Erosion Control Blanket Item No. 908020	American Excelsior	AEC Premier Straw / Coconut FibreNet
		AEC Premier Straw FibreNet Double Net
		AEC Premier Coconut FibreNet
		Curlex III FibreNet
		Curlex II FibreNet
	Western Green/East Coast Erosion Blankets	ECC-2B
	Enviroscape ECM	C4000BD
		SC3000BD
	ErosionControlBlanket.com	C32BD
	Erosion Tech	ETC-100-BN
		ETRS-2-BN
		ETX-2-HVBN
	Western Green/North American Green	C125BN
		S150BN
		SC150BN
	US Erosion Control Products	US 2SC NN
	Western Green/Western Excelsior	EXCEL CC-4 All Natural
		EXCEL CS-3 All Natural
		EXCEL SS-2 All Natural
Turf Reinforcement Mat, Type 1 Item No. 908021	American Excelsior	Recyclex TRM
		Recyclex TRM-V
	Western Green/East Coast Erosion Blankets	ECP-2
		ECSC-3
	Enviroscape ECM	P5000
	ErosionControlBlanket.com	P42
	Erosion Tech	ETPP-10
	Western Green/Western Excelsior	EXCEL PP5-10
	<u>Plus TRM Type 2 blankets</u>	
Turf Reinforcement Mat, Type 2 Item No. 908022	American Excelsior	Curlex Enforcer
		TriNet Straw/Coconut
		TriNet Coconut
		TriNet Curlex
		TriNet Recyclex
	GrassWorx	InstaTurf ShearForce10
	Western Green/East Coast Erosion Blankets	ECC-3
		ECP-3
	Western Green/North American Green	C350
		P550
		SC250
		P300
	Propex	Landlok 450
		Pyramat 25/50/75
	Western Green/Western Excelsior	EXCEL PP5-12

Delaware Department of Transportation Approved Fabricators List

818.2 - Sign Panels

Fabricator	Contact Number	Address	Email	Approvals			Date of Last Audit
				Applied Vinyl	Screen Printing	Digital Printing	
Atlas Flasher & Supply Co. Inc	1-856-423-3333	430 Swedesboro Ave Mickleton NJ, 08056	Sales@AtlasFlasher.com	X	X	X	6/4/2025
Custom Products Corp.	1-800-367-1492	1120 Flowood Drive Flowood MS, 39232	heidi@cpcsigns.com	X	X	X	9/2/2025
Direct and Correct, Inc	1-302-697-7117	6236 Mud Mill Road Camden Wyoming, DE	DirectCorrect@yahoo.com	X			8/29/2024
National Highway Products, Inc (FKA Garden State Highway Products)	1-800-338-5685	301 Riverside Drive, Millville, NJ	sales@nationalhighway.com	X	X	X	12/9/2024
Right Way Flagging and Sign Co	1-302-698-5229	3918 Mud Mill Rd Camden Wyoming, DE	rightwayflagging@gmail.com	X			11/13/2024
Rocal, Inc.	1-740-998-2122	3186 CR 550, Frankfort, OH	NA	X	X	X	9/5/2024
Shannon Baum Signs, Inc	1-410-781-4000	105 Competitive Goals Dr, Sykesville, MD	sign@shannonbaum.com	X	X	X	9/11/2024
Traffic Safety & Signs, Inc	1-610-925-1990	703 Terminal Way, Kennet Square, PA	NA	X		X	10/30/2024

* Inclusion on this APL does not constitute Buy America preference compliance

** For a product to remain eligible for DeIDOT's APL, it must continue to meet specification requirements and provide adequate field performance

Delaware Department of Transportation Approved Products List

Silane-Based Concrete Sealer

[illegible]

* Inclusion on this APL does not constitute Buy America preference compliance

Delaware Department of Transportation
Approved Products List
Emulsified Asphalt Tack Coats

Approved Tack Coat Manufacturers

Manufacturer	Approved Grades				Approval Date
	Anionic (1011.3.1)	Cationic (1011.3.2)	Polymer-Modified Cationic (1011.3.3)	Non-Tracking (1011.3.4)	
Asphalt Emulsion Industries, Inc. (Dumfries, VA)		CRS-1, CRS-2, CRS-2L, CSS-1h, CQS-1h	CQS-1hP, CRS-2P		6/13/2024
Asphalt Emulsion Industries, Inc. (Manassas, VA)		CSS-1h, CRS-1, CRS-2, CQS-1h	CQS-1hP, CRS-2L/P		6/13/2024
Asphalt Paving Systems (Hammonton, NJ)		CSS-1, CSS-1H, CRS-2, CRS-1H, CRS-1	CQS-1HP, CRS-2P, CRS-1P		6/13/2024
Russell Standard (Baltimore, MD)		CRS-1, CRS-2	CRS-2P	CNTT, U-BondUTFCEM	9/11/2024
Russell Standard (Chambersburg, PA)		CSS-1H, CRS-2, CRS-2L		CNTT, THMACO/UBOND	8/21/2025
Russell Standard (Reading, PA)		CRS-1, CRS-1h, CRS-2, CRS-2L, CSS-1h, CQS-1h	CRS-2P	CNTT, THMACO/UBOND	8/21/2025
Russell Standard (Seaford, DE)		CRS-1, CRS-2, CRS-1h, CRS-2hL, CRS-2L, CSS-1h		CNTT	6/13/2024
Seaboard Asphalt Products (Baltimore, MD)				EM-50-TT	8/21/2025
Specialty Emulsions Inc (York, PA)	SS1H	CRS-1H, CRS-2, CSS-1H	CRS-2P	EM-50-TT	6/13/2024

Approved Tack Coat Suppliers

1011.3.1 - Anionic Emulsified Asphalt (AASHTO M140)

Supplier	Product Name (Grade)	Approval Date	Supplier	Product Name (Grade)	Approval Date

1011.3.2 - Cationic Emulsified Asphalt (AASHTO M208)

Supplier	Product Name (Grade)	Approval Date	Supplier	Product Name (Grade)	Approval Date

1011.3.3 - Polymer-Modified Cationic Emulsified Asphalt (AASHTO M316)

Supplier	Product Name (Grade)	Approval Date	Supplier	Product Name (Grade)	Approval Date

1011.3.4 - Non-Tracking Emulsified Asphalt (Table 1011.3)

Supplier	Product Name (Grade)	Approval Date	Supplier	Product Name (Grade)	Approval Date

* Inclusion on this APL does not constitute Buy America preference compliance

** For a product to remain eligible for DelDOT's APL, it must continue to meet specification requirements and provide adequate field performance

Delaware Department of Transportation Approved Products List Temporary Impact Attenuators / Sand Crash Cushion Arrays					
Pay Item Number	Manufacturer	Product Name	NCHRP-350 Test Level ⁴	MASH Test Level	FHWA Eligibility Letter
TEMPORARY IMPACT ATTENUATORS - GATING, NON-REDIRECTIVE⁵					
809002	Valtir, Inc. (EASI)	N-E-A-T System	TL-2		CC-25
809002	Valtir, Inc. (EASI)	Triton Barrier CET	TL-2		B-26
					CC-47B
809003			TL-3		CC-47
					CC-47A
					CC-47B
					CC-47C
809003	Valtir, Inc. (EASI)	Triton Barrier CET (ACZ-350)	TL-3		CC-47D
TEMPORARY IMPACT ATTENUATORS - NON-GATING, REDIRECTIVE					
809005	Work Area Protection	SCI SmartCushion® TL-3 SCI100GM Impact Attenuator		TL-3	CC-128
809004	Valtir, Inc. (EASI)	Quadguard M10		TL-2 / TL-3	CC-112 (TL-3)
					CC-112A (TL-2 & TL-3)
809005					CC-112B (TL-3)
					CC-112C (TL-3)
809004	Lindsay Transportation Solutions, Inc.	Universal TAU-M MASH Crash Cushion		TL-2	CC-146
809005	Lindsay Transportation Solutions, Inc.	Universal TAU-M MASH Crash Cushion		TL-3	CC-147
809005	Lindsay Transportation Solutions, Inc.	TAU-XR Xpress Repair Crash Cushion		TL-3	N/A
809005	Valtir, Inc.	REACT M		TL-3	CC-169
809012	Valtir, Inc.	QuadGuard M Wide		TL-3	CC-163
809005	Traffix Devices, Inc.	Delta Crash Cushion		TL-3	CC-167
809005	Valtir, Inc. (Trinity)	ADIEM (Advanced Dynamic Impact)	TL-3		CC-38
809005	Barrier Systems by Lindsay	X-TENUator	TL-3		CC-109
809004	Barrier Systems by Lindsay	TAU-II Crash Cushion	TL-2 / TL-3		CC-75 (TL-2 & TL-3)
					CC-75A (TL-2 & TL-3)
					CC-75B (TL-2 & TL-3)
809005					CC-75C (TL-2 & TL-3)
					CC-75D (TL-2 & TL-3)
809005	Barrier Systems by Lindsay	TAU-IIR Crash Cushion	TL-3		CC-75D

Delaware Department of Transportation Approved Products List Temporary Impact Attenuators / Sand Crash Cushion Arrays					
Pay Item Number	Manufacturer	Product Name	NCHRP-350 Test Level ⁴	MASH Test Level	FHWA Eligibility Letter
809004	Valtir, Inc. (EASI)	Quadguard / Quadguard II / Quadguard CZ	TL-2 / TL-3		CC-35 (TL-3)
					CC-35A (TL-3)
					CC-35B (TL-3)
					CC-35C (TL-2)
					CC-35D (TL-3)
					CC-35E (TL-3)
					CC-35F (TL-3)
					CC-35G (TL-2 & TL-3)
					CC-35H (TL-2 & TL-3)
					CC-35I (TL-2 & TL-3)
					CC-35J (TL-2 & TL-3)
					CC-35L (TL-2 & TL-3)
					CC-35M (TL-2 & TL-3)
809004	Valtir, Inc. (Trinity)	Trinity Attenuating Crash Cushion (TRACC)	TL-2		CC-54 (TL-3)
					CC-54A (TL-2)
					CC-54C (Transition)
					CC-54E (Modular Base)
					CC-54F (TL-2 & TL-3)
					CC-54G (TL-2 & TL-3)
					CC-54B (TL-3)
					CC-54H (TL-3)
809005	Valtir, Inc. (Trinity)	FASTRAC	TL-3		CC-54D (TL-3)
809005	Valtir, Inc. (Trinity)	WIDETRACC	TL-3		
809004	Valtir, Inc. (EASI)	REACT 350 / 350 II / 350 CZ	TL-2		CC-26D (TL-2)
809005			TL-3		CC-26E (TL-3)
809004	Work Area Protection	Smart Cushion SCI70GM / SCI100GM	TL-2		CC-85A (TL-2)
809005			TL-3		CC-85 (TL-3)
					CC-85B (Evaluation)

Delaware Department of Transportation Approved Products List Temporary Impact Attenuators / Sand Crash Cushion Arrays					
Pay Item Number	Manufacturer	Product Name	NCHRP-350 Test Level ⁴	MASH Test Level	FHWA Eligibility Letter
SAND CRASH CUSHION ARRAYS					
809007	Traffix Devices, Inc.	Big Sandy MASH		TL-3	CC-139
809007	Valtir, Inc. (EASI)	Energite III System (MASH)		TL-3	CC-164
809007	Traffix Devices, Inc.	Big Sandy	TL-3		CC-52
					CC-52A
					CC-52B
809007	Plastic Safety Systems, Inc.	CrashGard	TL-3		CC-97
					CC-97A
809007	Valtir, Inc. (EASI)	Energite III System	TL-3		CC-29
809007	Valtir, Inc. (EASI)	Fitch Universal Barrel System	TL-3		CC-28

NOTES:

1. Eligibility letters for NCHRP 350 Devices can be found at: https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/listing-archived.cfm?code=cushions
2. Eligibility letters for MASH Devices can be found at:
https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/listing.cfm?code=cushions
3. Temporary impact attenuators or Sand Crash Cushion Arrays not listed above shall not be used on any DelDOT construction or maintenance contract without prior written approval from the DelDOT Safety Programs Manager, who is responsible for the above Approved Products List (APL).
4. DelDOT's sunset date for NCHRP 350 tested Temporary Impact Attenuators and Sand Crash Cushion Arrays is January 1, 2025. Contracts that are Advertised on or after January 1, 2025 shall be required to have MASH tested Temporary Impact Attenuators and Sand Crash Cushion Arrays.
5. NCHRP 350 devices under this category can continue to be used when specified on projects until a MASH-compliant alternative is available.

[NCHRP 350 Device Sunset Date Memorandum](#)

Delaware Department of Transportation
Approved Products List
Temporary Barrier

Manufacturer	Product Name	Approved Applications			Eligibility Letters	Eligible 2024 and 2025 Specification Pay Item Numbers						
		Unpinned	Pinned in PCC	Pinned in Hot-mix		807020	807021	807022	807023	807024	807025	807026
EASI-SET Industries	J-J Hook F-Shape Temporary PCC Barrier (20' and 12' segments)	X	X	X	B-307 , B-300 , B-52C , B-52B	X	X	X	X	X	X	X
Strongstown B&K	JJ Hook F-Shape Temporary PCC Barrier (12' segments)	X	X	X	B-258 , B-344	X	X	X	X	X	X	X
Valtir, LLC	HighwayGuard Steel Barrier System (20' or 40' segments)	X	X	X	B-322 , B-323 , B-329 , B-330 , B331 , B-370	X	X	X	X	X	X	X
Northern Infrastructure Products	Cross-Bolt F-Shape Concrete Barrier (12' segments)	X		X	B-365	X	X	X	X		X	

Delaware Department of Transportation Approved Products List Temporary Sign Stands					
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DeIDOT Standard Item No. 810001 - MASH Compliant Devices					
SS410A	Plasticade	TL-3	MASH	Temporary Approved for Roll-Up Signs only	WZ-354
SS440	Plasticade	TL-3	MASH	Temporary 60" mounting height Approved for Roll-Up Signs only	WZ-460
SS520A	Plasticade	TL-3	MASH	Temporary Approved for Roll-up Signs only	WZ-356
SS620A	Plasticade	TL-3	MASH	Temporary 60" mounting height Approved for Corrugated Plastic Signs only	WZ-424
		TL-3	MASH	Temporary 84" mounting height Approved for Corrugated Plastic Signs only	WZ-425
		TL-3	MASH	Temporary 84" mounting height Approved for Roll-up Signs only	WZ-426
SS621A	Plasticade	TL-3	MASH	Temporary 84" mounting height Approved for Aluminum Signs only	WZ-427
SSRB800 **	Plasticade	TL-3	MASH	Temporary	WZ-342
SS300/SS300A **	Plasticade	TL-3	MASH	Temporary	WZ-351
SS310/SS310A **	Plasticade	TL-3	MASH	Temporary	WZ-352
SS340A **	Plasticade	TL-3	MASH	Temporary	WZ-353
SS420A **	Plasticade	TL-3	MASH	Temporary	WZ-355
MDI 4860M-LT	MDI Worldwide	TL-3	MASH	Temporary Approved for Roll-Up Signs only	WZ-357
Twin Flex STF1008	Dicke Safety	TL-3	MASH	Temporary 60" mounting height Approved for Roll-Up Signs only	WZ-434
Twin Flex TF60-84	Dicke Safety	TL-3	MASH	Temporary 60" or 84" mounting height Approved for Roll-Up Signs only	N/A
Twin Flex TF84	Dicke Safety	TL-3	MASH	Temporary 84" mounting height Approved for Roll-Up and Aluminum Signs	N/A
Apex Recoil Max	Eastern Metal	TL-3	MASH	Temporary 60" mounting height Approved for Roll-Up Signs only	WZ-438

Delaware Department of Transportation Approved Products List Temporary Sign Stands					
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DelDOT Standard Item No. 810001 - NCHRP-350 Compliant Devices²					
SZ-460-2S SZ-484-2S	BONE SAFETY SIGNS	TL-3	NCHRP-350	Temporary	WZ-275
TF60 TF84-7	DICKE TOOL COMPANY	TL-3	NCHRP-350	Temporary	WZ-141
X-561	EASTERN METAL / USA SIGN	TL-3	NCHRP-350	Temporary	WZ-56
X-602	EASTERN METAL / USA SIGN	TL-3	NCHRP-350	Temporary	WZ-78A
SS548E; SS548AE; SS548AEE SS548CE; SS548CAE SS548EE SS560AE; SS560AEE SS560E; SS560EE	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	WZ-100
SS560 SS560A	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	WZ-29
4850RBK	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS		NCHRP-350	Temporary	WZ-28
4860K	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS	TL-3	NCHRP-350	Temporary	WZ-69
4884K 4884KET	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS	TL-3	NCHRP-350	Temporary	WZ-138
BIG BUSTER PORTABLE SIGN STAND	TRAFFIX DEVICES, INC.	TL-3	NCHRP-350	Temporary	WZ-46
SUPER BUSTER PORTABLE SIGN STAND	TRAFFIX DEVICES, INC.	TL-3	NCHRP-350	Temporary	WZ-234
4860K	MDI	TL-3	NCHRP-350	Temporary	WZ-69

NOTES:

1. Temporary sign stands placed on Delaware roadways shall have a minimum mounting height of 5 feet (60 inches) from the bottom of the sign to roadway. Signs not meeting this height requirement will not be found on the Approved Products List (APL) and will not be accepted nor considered for use. Furthermore, temporary sign stands shall only be used for a maximum of 72 hours (3 days). The only exceptions provided for are documented utility conflicts and instances where ground mounting will be improbable or impossible based on the type of surface a ground mounted post would need to be driven. In cases of utility conflicts, contractor must provide in writing, with supporting documentation, the nature of the conflict and present to the Delaware Department of Transportation's Project Engineer and Safety Officer, as well as the lead inspector for the contract.

2. DelDOT's sunset date for NCHRP 350 tested Temporary Sign Stands is January 1, 2025. Contracts that are Advertised on or after January 1, 2025 shall be required to have MASH tested Temporary Sign Stands.

[NCHRP 350 Device Sunset Date Memorandum](#)

** For survey crew use only

Delaware Department of Transportation Approved Products List Type III Barricades					
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DelDOT Standard Item No. 813001 - MASH Compliant Devices					
Power Post Type III Barricade	PLASTICADE	TL-3	MASH	Temporary	WZ-327
Anchor Mast Type III Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	MASH	Temporary	WZ-389
Sentinel TYPE III Barricade	PLASTICADE PRODUCTS	TL-3	MASH	Temporary	WZ-302
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DelDOT Standard Item No. 813001 - NCHRP-350 Compliant Devices¹					
T3B TYPE III Barricade	DAVIDSON PLASTICS CORPORATION	TL-3	NCHRP-350	Temporary	WZ-39
IRS TYPE III Barricade	IMPACT RECOVERY SYSTEMS, INC.	TL-3	NCHRP-350	Temporary	WZ-110
WBT3-BR TYPE III Barricade	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	WZ-100 # 3
WBT3-BRH TYPE III Barricade					WZ-100
WBT3-SW TYPE III Barricade					WZ-100 # 3
WBT3-SWH TYPE III Barricade					
Portable TYPE III Barricade	PLASTICADE PRODUCTS	TL-3	NCHRP-350	Temporary	WZ-11
Angle Iron Portable TYPE III Barricade					WZ-54
Telespar Portable TYPE III Barricade					
PST-111 TYPE III Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	NCHRP-350	Temporary	WZ-61
ANCHOR BARRICADE PST-111 TYPE III Barricade					WZ-152
Sentinel TYPE III Barricade	PMG LIMITED	TL-3	NCHRP-350	Temporary	WZ-104
TD2400 TYPE III Barricade	THREE D TRAFFIC WORKS, INC.	TL-3	NCHRP-350	Temporary	WZ-217
TD2400 TYPE III Barricade					WZ-132
TD2600 TYPE III Barricade	THREE D TRAFFIC WORKS, INC.	TL-3	NCHRP-350	Temporary	WZ-128
TD2650 TYPE III Barricade					

NOTES:

1. DelDOT's sunset date for NCHRP 350 tested Type III Barricades is January 1, 2025. Contracts that are Advertised on or after January 1, 2025 shall be required to have MASH tested Type III Barricades.

[NCHRP 350 Device Sunset Date Memorandum](#)

Delaware Department of Transportation Approved Products List TTC Permanent Sign Stands					
Product Name	Manufacturer	Test Level	Testing Criteria ¹	Application	FHWA Eligibility Code
DelDOT Standard Item No. 810001 - NCHRP 350 Compliant Devices²					
HI-PRO 350	UNITED RENTALS	TL-3	NCHRP 350	Permanent	WZ-74 *
H-BASED	PENNDOT	TL-2	NCHRP 350	Permanent	WZ-266 *
X-BASED		TL-2			
U-Channel Posts	Marion Steel Co.	TL-3	NCHRP 350	Permanent	SS-57A
	Chicago Heights Steel	TL-3	NCHRP 350	Permanent	SS-54
	Franklin Industries	TL-3	NCHRP 350	Permanent	SS-67
U-Channel Bar Spacer	Chicago Heights Steel	TL-3	NCHRP 350	Permanent	SS-59A
	Marion Steel Co.	TL-3	NCHRP 350	Permanent	SS-56
	Franklin Industries	TL-3	NCHRP 350	Permanent	SS-09
PSST	Allied Tube and Conduit Corp	TL-3	NCHRP 350	Permanent	SS-03

NOTES:

* These temporary stands are only used when utility conflict exists OR material exists that prevents ground installation such as concrete; hot mix; brick. All conflicts must be verified and documented by Engineer.

1. DelDOT's sunset date for NCHRP 350 tested permanent sign mounts is January 1, 2025. Contracts that are Advertised on or after January 1, 2025 shall be required to have MASH tested permanent sign mounts.

2. NCHRP 350 devices under this category can continue to be used when specified on projects until a MASH-compliant alternative is available.

[NCHRP 350 Device Sunset Date Memorandum](#)

Delaware Department of Transportation Approved Products List Truck/Trailer Mounted Attenuators						
Product Name	Manufacturer	Test Level	Testing Criteria ²	Application	Support Vehicle Weight	FHWA Eligibility Code
DelDOT Standard Item No. 808002 - MASH Compliant Devices						
TTMA-200	Gregory	TL-3	MASH	Trailer	10,000 lbs. MIN	CC-152
SS180M TMA	Valtir, Inc. (Trinity)	TL-3	MASH	Truck Mounted	13,500 lbs. MIN	CC-159
SMT		TL-3	MASH	Trailer	12,000 lbs. MIN	CC-160
Vorteq M Trailer TMA		TL-3	MASH	Trailer	12,183 lbs. MIN	CC-172
MASH TrafFix Scorpion II	TrafFix Devices, Inc.	TL-3	MASH	Truck Mounted	15,000 lbs. MIN	CC-132
Scorpion II Trailer Attenuator		TL-3	MASH	Trailer	12,000 lbs. MIN	CC-138
Verdegro BLADE TMA	Verdegro Holding BV	TL-3	MASH	Truck Mounted	16,010 lbs. MIN	CC-136
Product Name	Manufacturer	Test Level	Testing Criteria ²	Application	Support Vehicle Weight	FHWA Eligibility Code
DelDOT Standard Item No. 808002 - NCHRP 350 Compliant Devices						
Vorteq Trailer TMA with Integral Arrowboard	Valtir, Inc. (EASI)	TL-3	NCHRP 350	Trailer	9,920 lbs. MIN	CC-104A
Alpha 100K TMA @ TL-3		TL-3	NCHRP 350	Truck Mounted	16,090 lbs. MIN	CC-39
TL-3 U-Mad TMA with Sign Board	Barrier Systems	TL-3	NCHRP 350	Truck Mounted	19,000 lbs. MIN 20,000 lbs. MAX	CC-103A
U-MAD Trailer Mounted Attenuator	Impact Absorption	TL-3	NCHRP 350	Trailer	18,850 lbs. MIN 20,830 lbs. MAX	CC-99
Trailer TMA-100	Gregory	TL-3	NCHRP 350	Trailer	19,840 lbs. MIN	CC-90A
Safe-Stop 180 Trailer TMA	Valtir, Inc. (Trinity)	TL-3	NCHRP 350	Trailer	19,000 lbs. MIN	CC-78D
Safe-Stop 180 TMA		TL-3	NCHRP 350	Truck Mounted	19,000 lbs. MIN	CC-78A
MPS 350 TMA @ TL-3		TL-3	NCHRP 350	Truck Mounted	15,000 lbs. MIN	CC-34B
Scorpion Attenuator Trailer	TrafFix Devices, Inc.	TL-3	NCHRP 350	Trailer	10,000 lbs. MIN	CC-65B
TMA Scorpion C 10,000 Model C and Model C-90		TL-3	NCHRP 350	Truck Mounted	19,840 lbs. MIN	CC-65
U-MAD 100 K Truck Mounted Attenuator	Albert W. Unrath, Inc.	TL-3	NCHRP 350	Truck Mounted	18,988 lbs. MAX	CC-64

NOTES:

1. Truck/Trailer Mounted Attenuators not listed above shall not be used on any DelDOT construction or maintenance contract without prior written approval from the DelDOT Safety Programs Manager, who is responsible for the above Approved Products List (APL).
2. DelDOT's sunset date for NCHRP 350 tested Truck/Trailer Mounted Attenuators is January 1, 2030. Contracts that are Advertised on or after January 1, 2030 shall be required to have MASH tested Truck/Trailer Mounted Attenuators.

[NCHRP 350 Device Sunset Date Memorandum](#)

Delaware Department of Transportation
Approved Products List
Pedestrian Channelizing Barricade

Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DeIDOT Standard Item No. 813002					
Safety Rail ADA Compliant Pedestrian Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	MASH	Temporary	WZ-359
Safety Wall ADA Compliant Pedestrian Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	MASH	Temporary	WZ-315
Patchade ADA Compliant Pedestrian Barricade	Plasticade	TL-3	MASH	Temporary	WZ-428

DelDOT Asphalt Release Agent Acceptance Program

The Department maintains an approved products list for asphalt release material to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department the material's AASHTO Product Evaluation and Audit Solutions (PEAS) code for the Department to verify its suitability. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis.

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department as additional AASHTO PEAs testing data becomes available.

DelDOT Concrete Admixtures Acceptance Program

The Department maintains an approved products list for concrete admixtures available for use in cast-in-place and precast concrete applications. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department the following information with their initial submittal:

- The material's AASHTO Product Evaluation and Audit Solutions (PEAS) code,
- The admixture type which the producer is seeking approved product status, and
- Evidence that a DelDOT approved concrete producer has interest in performing trial batches with the concrete admixture.

After an initial evaluation, the Department may request additional certified test results or for the producer to furnish samples to the Department. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis. The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department as additional AASHTO PEAs testing data becomes available and when changes occur to the material formulation or manufacturing process.

DelDOT Concrete Curing Compound Acceptance Program

The Department maintains an approved products list for concrete curing compound to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department certified test results for tests listed in Table 1 performed by an accredited laboratory. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis.

Table 1: Concrete Curing Compound Certificate of Analysis Submittal Information

TEST	METHOD
Moisture Loss @ 72 hrs.	AASHTO T155
Deleterious Reaction with Concrete	ASTM C309
Reflectance (using CIE D65/2°)	ASTM E1347
Drying Time (hrs.: min.)	ASTM C309
Density, lbs/gal	ASTM D1475

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department of formulation or manufacturing process changes.

DelDOT Highway Safety Hardware and Temporary Traffic Control Devices Acceptance Program

The Department maintains several approved product lists for highway safety hardware and temporary traffic control devices to be used on all Department contracts and Department issued permits or agreements. Specific approved product lists maintained include the following:

- Guardrail end treatments,
- Permanent impact attenuators,
- Guardrail hardware, and
- Temporary traffic control devices which includes:
 - Temporary impact attenuators and sand crash cushion arrays,
 - Truck/ trailer mounted attenuators,
 - Temporary sign stands,
 - Type III barricades, and
 - Temporary safety barrier.

DelDOT's MASH Committee, comprised of representatives from across the Department with expertise in roadside design, roadside safety hardware, and temporary traffic control, is responsible for maintaining the approved product lists. Vendors that wish to be added to the Department's approved products lists are to complete the Department's [Approved Product List Application](#) and submit the application and the necessary attachments as instructed within the application. The Department reserves the right to request additional testing and will not purchase new product materials for laboratory testing or field evaluations. The Department will only accept third party test data that was performed in the United States in accordance with FHWA requirements. Submitters should be aware of DelDOT's [NCHRP-350 Sunset Dates Memo](#) and DelDOT's associated crashworthiness policy.

At a minimum, to be considered eligible for a Department approved product list, the device or product must meet the following requirements:

1. Devices must be crashworthy in accordance with the latest edition of the Manual for Assessing Safety Hardware (MASH) published by the American Association of State Highway Transportation Officials (AASHTO). Exception to this requirement is provided for trailer mounted temporary traffic control devices (Portable Changeable Message Signs, Arrow Board trailers, Temporary Traffic Signal Trailers, Portable Camera Trailers, Portable Detection Trailers, Portable Speed Display Trailers, etc.).
2. Devices must meet the requirements of the latest edition of DelDOT's Standard Specifications.

The Department, at its sole discretion, will determine whether the product should be placed on the Department's approved products list. Any materials or products evaluated and rejected are not eligible for resubmission within six months of the most recent evaluation unless specifically requested by the Department.

Once approved, vendors will be required to perform the following to retain approval status:

- Approved products are required to continue to meet the requirements of the latest edition of DelDOT's Standard Specifications.
- Immediately inform the Department of any changes in the composition of the product. The Department will review the changes and may request samples or other support documentation like crash test reports or catalog cuts be submitted to assist in the Department's review.

- Vendors are required to recertify their products every 5 years to remain on the approved product list beginning January 2023. If the product has not changed, submit a certified letter on manufacturer's letterhead stating that the product has not changed.

The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list.

Hot Applied Joint and Crack Sealant Acceptance Program

The Department maintains an approved products list for hot applied joint and crack sealant materials to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department the material's AASHTO Product Evaluation and Audit Solutions (PEAS) code for the Department to verify its suitability. Products that have not been submitted to, tested by, and evaluated by AASHTO PEAS are to provide certified test results for the tests listed in Table 1 performed by an accredited laboratory for the material being submitted for approval. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis.

Table 1: Certificate of Analysis Submittal Information

TESTS	METHOD
Cone Penetration at 77° F	ASTM D5329
Cone Penetration at 40° F	ASTM D5329
Softening Point, °F	ASTM D36
Bond, Non-immersed, -20° F	ASTM D5329
Bond, Water immersed, -20° F	ASTM D5329
Resilience at 77° F	ASTM D5329
Asphalt Compatibility	ASTM D5329
Apparent Viscosity at Maximum heating Temperature, °F	AASHTO TP 85

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department as additional AASHTO PEAS testing data becomes available and when changes occur to the material formulation or manufacturing process.

Pavement Marking Material Acceptance Program

Pavement Markings

The Department maintains an approved products list for pavement marking to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department the material's AASHTO Product Evaluation and Audit Solutions (PEAS) code for the Department to verify its suitability. It is the Department's preference, that the submitted material have at least 3-years of test data available on a northern test track. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis.

If the Department determines that the material is acceptable, the Department will provisionally apply the material for a trial period that will include at least one winter. The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department as additional AASHTO PEAs testing data becomes available and when changes occur to the material formulation or manufacturing process.

Department quality assurance inspectors will test all newly placed pavement markings to assure contract compliance. The retroreflectometer readings will be taken within 1 to 3 weeks after striping is complete. The Materials and Research section will perform the retroreflectivity testing under dry conditions and typically during daytime hours; however, when required, the Materials and Research section will coordinate with the construction inspection staff for applications where nighttime testing is required because daytime testing is not feasible.

Snowplowable Recessed/ Raised Pavement Markers

The Department maintains an approved products list for snowplowable raised pavement markers to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department the material's AASHTO Product Evaluation and Audit Solutions (PEAS) code for the Department to verify its suitability. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional testing and verification.

If the Department determines that the material is acceptable, the Department will provisionally apply the material for a trial period that will include at least one winter. The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department as additional AASHTO PEAs testing data becomes available and when changes occur to the material formulation or manufacturing process.

Pavement Marking Glass Beads

The Department maintains an approved products list for pavement marking glass beads to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. Producers will be required to submit a product technical data sheet verifying compliance with the Department's specifications and signed certificate of analysis. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional testing and verification.

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department when changes occur to the material formulation or manufacturing process.

Preformed Flexible Joint Sealants Acceptance Program

The Department maintains an approved products list for preformed flexible joint sealants for precast concrete applications to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department certified test results for the tests listed in Table 1 performed by an accredited laboratory. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied with a producer signed certificate of analysis.

Table 1: Preformed Flexible Joint Sealants Certificate of Analysis Submittal Information

Test	Method
Bitumen Content (bitumen products)	ASTM D4
Rubber Product Chemical Analysis (butyl rubber products)	ASTM D297
Ash-Inert Mineral Matter	ASTM D6/ D6M
Specific Gravity	ASTM D71
Ductility	ASTM D113/ D113M
Softening Point	ASTM D36/ D36M
Penetration	ASTM D217
Flash Point and Fire Point	ASTM D92
Chemical Resistance	ASTM C990/ C990M
Compression-Recovery of Tape Sealant	ASTM C972
Joint Performance Requirements	ASTM C990/ C990M

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department of formulation or manufacturing process changes.

DeIDOT Sign Panel Acceptance Program

The Department maintains an approved suppliers list for all sign panel material to be used on all Department contracts and Department issued permits or agreements. Suppliers that wish to be added to the Department's approved suppliers list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The supplier must submit the following information to the Department to process the request:

- Location and address of each facility to be qualified,
- Contact information including name, phone number and e-mail address for a designated supplier point of contact,
- Material sources with certifications, and
- Fabrication methods.

Once the Department has reviewed and accepted the information submitted by the fabricator, the Department will conduct an on-site plant inspection and quality control audit. Fabricators found to be in compliance with the requirements of the Department's specifications and with this acceptance program will be issued a letter of qualification to become a certified supplier and will be added to the Department's list of approved suppliers. The checklist that the Department will use to conduct the initial on-site inspection and future quality control audits can be found at [this location](#). The Department, at its sole discretion, will determine certification in cases where full compliance is not met during the on-site inspection.

All Department sign panel suppliers must utilize reflective sheeting material in accordance with Table 1 and as prescribed in the contract.

Table 1: Reflective Sheeting Requirements

Grade	Manufacturer	Product Name
Type IV	3M	High Intensity Prismatic Reflective Sheeting 3930 Series
	Nippon Carbide	Nikkalite High Intensity Micro-prismatic 94000 Series
	Avery Dennison	T-6000 HIP Series
	Orafol	5900 High Intensity Prismatic Grade
Type IX	3M	Diamond Grade VIP Reflective Sheeting 3990 Series
	3M	Diamond Grade VIP Fluorescent Reflective Sheeting 3980 Series
	Avery Dennison	Omniview T-9000 Series
	Orafol	Oralite 7900 Wide Observation Angle Prismatic
Type XI	3M	Diamond Grade DG ³ Reflective Sheeting 4090 Series
	3M	Diamond Grade DG ³ Fluorescent Reflective Sheeting Series 4080
	Orafol	Oralite 9900 Type XI Brilliant Grade Premium
	Avery Dennison	OmniCube T-11000 Series

All component materials (Reflective sheeting, Vinyl and UV protective sheeting when digitally printing) shall be matched to the manufacturer of the reflective sheeting. The sign fabricator of Digital Printed signs must be certified by the reflective sheeting manufacturer as required in *ATSSA Digitally Printed Traffic Sign Guide*.

The Department will perform audits of its approved suppliers on a periodic basis to assess an approved supplier's performance. Suppliers must maintain adequate field performance and remain in compliance

with the Department's specifications and with the requirements of this acceptance program to maintain status as an approved sign panel supplier.

DelDOT Silane-Based Concrete Sealer Acceptance Program

The Department maintains an approved products list for silane-based concrete sealers to be used on all Department contracts and Department issued permits or agreements. Producers that wish to be added to the Department's approved products list are to contact the Materials and Research section at DOT_APL@Delaware.gov. The producer will be required to provide the Department with certified test results for tests listed in Table 1 performed by an accredited laboratory. Producers are to furnish samples to the Department upon request when the Department determines that a sample is needed for additional material testing and verification. All samples submitted to the Department must be accompanied by a producer signed certificate of analysis.

Table 1: Silane-Based Concrete Sealer Certificate of Analysis Submittal Information

TEST	METHOD
Moisture Vapor Transmission	ASTM D1653
Absorbed Chloride	NCHRP 244 Series IV Southern Exposure
Water Absorption	NCHRP 244 Series II
Depth of Penetration	OHD L-40
Total Solids Content	ASTM D5095

The Department, at its sole discretion, will determine whether the material should be placed on the Department's approved products list. The Department will continuously evaluate the approved product list material field performance and will determine, at its sole discretion, whether products should be removed or temporarily suspended from the approved products list. Producers are to alert the Department of formulation or manufacturing process changes.

DelDOT Emulsified Asphalt Tack Coat Acceptance Program

The Department maintains both an approved tack coat manufacturers list and an approved tack coat suppliers list. For purposes of this document, a tack coat manufacturer is defined as the entity that produces the final tack coat material (i.e. a refinery or terminal), and a tack coat supplier is defined as the entity whose tank is used to fill up the tack truck that is used at the project site. Suppliers include but are not limited to hot-mix plants and manufacturer owned holding tanks which are used to fill up the tack truck that is used at the project site. All Department contracts and Department issued permits or agreements shall use material that is supplied through an approved tack coat supplier. All tack coat suppliers shall use material that is manufactured by a Department approved tack coat manufacturer.

The tack coat manufacturer and tack coat supplier are responsible for providing material that meets all necessary contract requirements and guidelines contained within this acceptance program. The Department will perform quality assurance inspection, testing, and oversight as specified in this program to ensure compliance with all Department requirements and specifications. The Department reserves the right to conduct additional quality assurance inspections and tests at its sole discretion when quality issues are discovered in the field. The Department will work with qualified manufacturers and suppliers to resolve discovered quality issues but reserves the right, at its sole discretion, to suspend any manufacturer's and/or supplier's approvals for non-compliance reasons.

Tack Coat Manufacturer Acceptance Program

Qualification Requirements

Emulsified asphalt manufacturers that wish to become a Department approved manufacturer must submit a request to the Materials and Research section at DOT_APL@Delaware.gov for each facility in which qualification is requested. The requestor must submit the following information to the Department to process the request:

- Location and address of each facility to be qualified,
- Contact information for each facility's General Manager and each facility's assigned Quality Control contact person with phone numbers and e-mail addresses,
- Emulsified asphalt grades in which Department approval is requested,
- Initial series of test data for each emulsified asphalt grade in which Department approval is requested,
- Current DelDOT emergency contact information including phone number and e-mail address,
- Any pertinent industry certifications or accreditations, and
- Quality control plan that complies with this program for each facility in which qualification is requested.

Once the Department has reviewed and accepted the information submitted by the manufacturer, the Department may elect to conduct an on-site inspection and quality control audit. The Department may additionally collect samples during the on-site inspection and perform compliance testing. Facilities that are found to be in compliance with the requirements of this program will be issued a letter of qualification to become an approved manufacturer for specific grades of emulsified asphalts and will be added to the Department's approved manufacturers list. The Department, at its sole discretion, will determine certification in cases where full compliance is not met during the on-site inspection.

Quality Control Plan Requirements

Department approved emulsified asphalt manufacturers are required to maintain a quality control plan that meets the requirements of this section for each production facility. Quality control plans must be updated and submitted to the Department annually, and when quality control personnel or procedural changes in the facility occur. The quality control plan is to include the following information at minimum:

- Facility location;
- Name, telephone number, and email address of the person responsible for quality control at the facility;
- The quality control tests to be performed on each emulsified asphalt grade produced;
- Name and location of all qualified laboratories performing the quality control tests prescribed in the quality control plan;
- A description of the method and frequency for initial testing, quality control testing, and specification compliance testing;
- A statement indicating that a supplier will prepare a monthly summary report for all quality control and specification compliance tests performed and that the supplier will submit these statements as requested; and
- A diagram and/or aerial photo of the facility displaying the layout of tanks and their associated identification numbers.
- An outline of procedures to be followed for checking emulsified asphalt transport vehicles prior to loading to prevent contamination of shipments.

Operating Requirements

The following operating requirements must be met in order to maintain status as an approved tack coat manufacturer:

- A quality control plan must be submitted to the Department annually and when quality control personnel or procedural changes in the facility occur.
- A certification of analysis must be sent electronically to the Department for each product made and shipped to DelDOT projects for each tank and lot produced. The certificate of analysis must include the facility from where the material originated as well as the tank and lot/batch number for the product.
- All pertinent quality control records including equipment calibration records, shipping records, inspection reports, and testing results are to be retained and made available to the Department upon request.
- The manufacturer's approved quality control plan must be followed.

Non-compliance with this program, the manufacturer's quality control plan, or the Department's specifications is cause for revocation of approval.

DelDOT Quality Assurance

The Department will review an approved manufacturer's on-file information annually to verify compliance with the Department's acceptance program. The Department may request additional manufacturer information if the Department determines the on-file information is insufficient or if the on-file information is no longer current. The Department reserves the right to perform material sampling and testing as needed to ensure quality and material compliance. When requested, samples must be submitted with a certificate of analysis.

Tack Coat Supplier Acceptance Program

Qualification Requirements

Tack coat suppliers that wish to become Department approved suppliers must submit a request to the Materials and Research section at DOT_APL@Delaware.gov for qualification. The requestor must submit the following information to the Department to process the request:

- Location and address of each tack coat tank to be qualified.
- Contact information for the designated tank manager with phone number and e-mail address.
- Identification of the approved tack coat manufacturer providing the supplier's material and associated emulsified asphalt grade in which Department approval is requested.

Once the Department has reviewed and accepted the information submitted by the supplier, the Department may elect to conduct an on-site inspection and quality control audit. The Department may additionally collect samples during the on-site inspection and perform compliance testing. Facilities that are found to be in compliance with the requirements of this program will be issued a letter of qualification to become an approved supplier for specific grades of emulsified asphalts and will be added to the Department's approved suppliers list. The Department, at its sole discretion, will determine certification in cases where full compliance is not met during the on-site inspection.

Operating Requirements

The following operating requirements must be met in order to maintain status as an approved tack coat supplier:

- Make no modifications to the approved tack coat manufacturer's material. A supplier that makes a modification to the material will be considered a tack coat manufacturer and will be subject to the requirements within the Tack Coat Manufacturer Acceptance Program.
- Store the tack coat material according to the manufacturer's recommendations.
- Provide a bill of lading for each shipment which includes the facility from where the material originated as well as the tank and lot/batch number for the product.

Non-compliance with this program or the Department's specifications is cause for revocation of approval.

DelDOT Quality Assurance

The Department will collect a sample of the approved tack coat supplier's material once a month and will randomly test samples collected for specification compliance. The Department reserves the right to perform additional sampling and testing as material quality issues are discovered. Tested samples that fail to meet the Department's specifications will be resampled and retested with notification sent to the supplier. A second failing test will result in the revocation of the supplier's approval status until a passing test is obtained.