

**Delaware Department of Transportation
Approved Products List
Temporary Impact Attenuators / Sand Crash Cushion Arrays**

Pay Item Number	Manufacturer	Product Name	NCHRP-350 Test Level	MASH Test Level	FHWA Eligibility Letter
TEMPORARY IMPACT ATTENUATORS - GATING, NON-REDIRECTIVE					
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	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)
809005					CC-75B (TL-2 & TL-3)
					CC-75C (TL-2 & TL-3)
809005	Barrier Systems by Lindsay	TAU-IIR Crash Cushion	TL-3		CC-75D

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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)				
809005					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)				
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)								
809005	Valtir, Inc. (Trinity)	Trinity Attenuating Crash Cushion (TRACC)	TL-3		CC-54B (TL-3)				
809005					CC-54H (TL-3)				
809005					CC-54D (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)				

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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 DeIDOT construction or maintenance contract without prior written approval from the DeIDOT Safety Programs Manager, who is responsible for the above Approved Products List (APL).
4. DeIDOT'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.

Delaware Department of Transportation Approved Products List Temporary PCC Barriers					
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DelDOT Standard Item No. 807001					
J-J Hook F-Shape Temporary PCC Barrier 20'	EASI-SET Industries	TL-3	MASH 2016	Temporary	B-307
J-J Hook F-Shape Temporary PCC Barrier 12'	EASI-SET Industries	TL-3	MASH 2016	Temporary	B-300
DelDOT Standard Item No. 807002					
J-J Hook F-Shape Temporary PCC Barrier Bolt Down in Bituminous Pavement	EASI-SET Industries	TL-3	MASH 2016	Temporary	B-52C
Strongstown B&K JJ Hook Retrofit V4 Bituminous Pavement	Strongstown B&K	TL-3	MASH 2016	Temporary	B-344
DelDOT Standard Item No. 807003					
J-J Hook F-Shape Temporary PCC Barrier Bolt Down in PCC Pavement	EASI-SET Industries	TL-3	MASH 2016	Temporary	B-52B
Strongstown B&K JJ Hook Retrofit V3 Concrete Pavement	Strongstown B&K	TL-3	MASH 2016	Temporary	B-258

NOTES:

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

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					
SZ-460-25 SZ-484-25	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
SS410A	Plasticade	TL-3	MASH16	Temporary Approved for Roll-Up Signs only	WZ-354
SS520A	Plasticade	TL-3	MASH16	Temporary Approved for Roll-up Signs only	WZ-356
SS620A	Plasticade	TL-3	MASH16	Temporary 60" mounting height Approved for Corrugated Plastic Signs only	WZ-424
		TL-3	MASH16	Temporary 84" mounting height Approved for Corrugated Plastic Signs only	WZ-425
		TL-3	MASH16	Temporary 84" mounting height Approved for Roll-up Signs only	WZ-426
SS621A	Plasticade	TL-3	MASH16	Temporary 84" mounting height Approved for Aluminum Signs only	WZ-427
SSRB800 **	Plasticade	TL-3	MASH16	Temporary	WZ-342
SS300/SS300A **	Plasticade	TL-3	MASH16	Temporary	WZ-351
SS310/SS310A **	Plasticade	TL-3	MASH16	Temporary	WZ-352
SS340A **	Plasticade	TL-3	MASH16	Temporary	WZ-353
SS420A **	Plasticade	TL-3	MASH16	Temporary	WZ-355
MDI 4860M-LT	MDI Worldwide	TL-3	MASH16	Temporary Approved for Roll-Up Signs only	WZ-357
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.

** 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					
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					
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

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.

Delaware Department of Transportation Approved Products List TTC Permanent Sign Stands					
Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
DelDOT Standard Item No. 810001					
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.

**Delaware Department of Transportation
Approved Products List
Truck/Trailer Mounted Attenuators**

Product Name	Manufacturer	Test Level	Testing Criteria	Application	Support Vehicle Weight	FHWA Eligibility Code
DelDOT Standard Item No. 808002						
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
TTMA-200	Gregory	TL-3	MASH	Trailer	10,000 lbs. MIN	CC-152
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
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
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
MASH Traffix Scorpion II		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
U-MAD 100 K Truck Mounted Attenuator	Albert W. Unrath, Inc.	TL-3	NCHRP 350	Truck Mounted	18,988 lbs. MAX	CC-64
Verdegro BLADE TMA	Verdegro Holding BV	TL-3	MASH	Truck Mounted	16,010 lbs. MIN	CC-136

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.