

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
<b>TEMPORARY IMPACT ATTENUATORS - GATING, NON-REDIRECTIVE</b>					
809002	Energy Absorption Systems, Inc.	N-E-A-T System	TL-2		<a href="#">CC-25</a>
809002			TL-2		<a href="#">B-26</a> <a href="#">CC-47B</a>
809003	Energy Absorption Systems, Inc.	Triton Barrier CET	TL-3		<a href="#">CC-47</a> <a href="#">CC-47A</a> <a href="#">CC-47B</a> <a href="#">CC-47C</a>
809003	Energy Absorption Systems, Inc.	Triton Barrier CET (ACZ-350)	TL-3		<a href="#">CC-47D</a>
<b>TEMPORARY IMPACT ATTENUATORS - NON-GATING, REDIRECTIVE</b>					
809005	Work Area Protection	SCI SmartCushion® TL-3 SCI100GM Impact Attenuator		TL-3	<a href="#">CC-128</a>
809004	Energy Absorption Systems, Inc.	Quadguard M10		TL-2 / TL-3	<a href="#">CC-112 (TL-3)</a> <a href="#">CC-112A (TL-2 &amp; TL-3)</a> <a href="#">CC-112B (TL-3)</a> <a href="#">CC-112C (TL-3)</a>
809005					
809004	Lindsay Transportation Solutions, Inc.	Universal TAU-M MASH Crash Cushion		TL-2	<a href="#">CC-146</a>
809005	Lindsay Transportation Solutions, Inc.	Universal TAU-M MASH Crash Cushion		TL-3	<a href="#">CC-147</a>
809005	Trinity Highway Products, LLC	ADIEM (Advanced Dynamic Impact)	TL-3		<a href="#">CC-38</a>
809005	Barrier Systems by Lindsay	X-TENuator	TL-3		<a href="#">CC-109</a>
809004	Barrier Systems by Lindsay	TAU-II Crash Cushion	TL-2 / TL-3		<a href="#">CC-75 (TL-2 &amp; TL-3)</a> <a href="#">CC-75A (TL-2 &amp; TL-3)</a> <a href="#">CC-75B (TL-2 &amp; TL-3)</a> <a href="#">CC-75C (TL-2 &amp; TL-3)</a>
809005					
809005	Barrier Systems by Lindsay	TAU-IIR Crash Cushion	TL-3		<a href="#">CC-75D</a>
809004	Energy Absorption Systems, Inc.	Quadguard / Quadguard II / Quadguard CZ	TL-2 / TL-3		<a href="#">CC-35 (TL-3)</a> <a href="#">CC-35A (TL-3)</a> <a href="#">CC-35B (TL-3)</a> <a href="#">CC-35C (TL-2)</a> <a href="#">CC-35D (TL-3)</a> <a href="#">CC-35E (TL-3)</a> <a href="#">CC-35F (TL-3)</a> <a href="#">CC-35G (TL-2 &amp; TL-3)</a> <a href="#">CC-35H (TL-2 &amp; TL-3)</a> <a href="#">CC-35I (TL-2 &amp; TL-3)</a> <a href="#">CC-35J (TL-2 &amp; TL-3)</a> <a href="#">CC-35L (TL-2 &amp; TL-3)</a> <a href="#">CC-35M (TL-2 &amp; TL-3)</a>
809005					

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809004	Trinity Highway Products, LLC	Trinity Attenuating Crash Cushion (TRACC)	TL-2		<a href="#">CC-54 (TL-3)</a>
					<a href="#">CC-54A (TL-2)</a>
					<a href="#">CC-54C (Transition)</a>
809005	Trinity Highway Products, LLC	Trinity Attenuating Crash Cushion (TRACC)	TL-3		<a href="#">CC-54E (Modular Base)</a>
					<a href="#">CC-54F (TL-2 &amp; TL-3)</a>
					<a href="#">CC-54G (TL-2 &amp; TL-3)</a>
809005	Trinity Highway Products, LLC	FASTRAC	TL-3		<a href="#">CC-54B (TL-3)</a>
809005	Trinity Highway Products, LLC	WIDETRACC	TL-3		<a href="#">CC-54H (TL-3)</a>
809004	Energy Absorption Systems, Inc.	REACT 350 / 350 II / 350 CZ	TL-2		<a href="#">CC-54D (TL-3)</a>
809005			TL-3		<a href="#">CC-26D (TL-2)</a>
809004	Work Area Protection	Smart Cushion SCI70GM / SCI100GM	TL-2		<a href="#">CC-26E (TL-3)</a>
809005			TL-3		<a href="#">CC-85A (TL-2)</a>
<b>SAND CRASH CUSHION ARRAYS</b>					
809007	TrafFix Devices, Inc.	Big Sandy MASH		TL-3	<a href="#">CC-85 (TL-3)</a>
809007	TrafFix Devices, Inc.	Big Sandy	TL-3		<a href="#">CC-139</a>
					<a href="#">CC-52</a>
809007	Plastic Safety Systems, Inc.	CrashGard	TL-3		<a href="#">CC-52A</a>
					<a href="#">CC-52B</a>
809007	Energy Absorption Systems, Inc.	Energite III System	TL-3		<a href="#">CC-97</a>
					<a href="#">CC-97A</a>
809007	Energy Absorption Systems, Inc.	Fitch Universal Barrel System	TL-3		<a href="#">CC-29</a>
809007	Energy Absorption Systems, Inc.	Fitch Universal Barrel System	TL-3		<a href="#">CC-28</a>

**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](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](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.

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

**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
<b>DelDOT Standard Item No. 810001</b>					
SZ-460-2S SZ-484-2S	BONE SAFETY SIGNS	TL-3	NCHRP-350	Temporary	<a href="#">WZ-275</a>
TF60 TF84-7	DICKE TOOL COMPANY	TL-3	NCHRP-350	Temporary	<a href="#">WZ-141</a>
X-561	EASTERN METAL / USA SIGN	TL-3	NCHRP-350	Temporary	<a href="#">WZ-56</a>
X-602	EASTERN METAL / USA SIGN	TL-3	NCHRP-350	Temporary	<a href="#">WZ-78A</a>
SS548E; SS548AE; SS548AEE SS548CE; SS548CAE SS548EE SS560AE; SS560AEE SS560E; SS560EE	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-100</a>
SS560 SS560A	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-29</a>
4850RBK	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS		NCHRP-350	Temporary	<a href="#">WZ-28</a>
4860K	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS	TL-3	NCHRP-350	Temporary	<a href="#">WZ-69</a>
4884K 4884KET	MARKETING DISPLAYS INTERNATIONAL TRAFFIC CONTROL PRODUCTS	TL-3	NCHRP-350	Temporary	<a href="#">WZ-138</a>
BIG BUSTER PORTABLE SIGN STAND	TRAFFIX DEVICES, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-46</a>
SUPER BUSTER PORTABLE SIGN STAND	TRAFFIX DEVICES, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-234</a>
SS410A	Plasticade	TL-3	MASH16	Temporary Approved for Roll-Up Signs only	<a href="#">WZ-354</a>
SS520A		TL-3	MASH16	Temporary Approved for Roll-up Signs only	<a href="#">WZ-356</a>
SS620A		TL-3	MASH16	Temporary 60" mounting height Approved for Corrugated Plastic Signs only	<a href="#">WZ-424</a>
		TL-3	MASH16	Temporary 84" mounting height Approved for Corrugated Plastic Signs only	<a href="#">WZ-425</a>
		TL-3	MASH16	Temporary 84" mounting height Approved for Roll-up Signs only)	<a href="#">WZ-426</a>
		TL-3	MASH16	Temporary	<a href="#">WZ-342</a>
SSRB800 **		TL-3	MASH16	Temporary	<a href="#">WZ-351</a>
SS300/SS300A **		TL-3	MASH16	Temporary	<a href="#">WZ-352</a>
SS310/SS310A **		TL-3	MASH16	Temporary	<a href="#">WZ-353</a>
SS340A **		TL-3	MASH16	Temporary	<a href="#">WZ-355</a>
SS420A **	TL-3	MASH16	Temporary	<a href="#">WZ-357</a>	
MDI 4860M-LT	MDI Worldwide	TL-3	MASH16	Temporary	<a href="#">WZ-69</a>
4860K	MDI	TL-3	NCHRP-350	Temporary	<a href="#">WZ-69</a>

**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
<b>DelDOT Standard Item No. 813001</b>					
T3B TYPE III Barricade	DAVIDSON PLASTICS CORPORATION	TL-3	NCHRP-350	Temporary	<a href="#">WZ-39</a>
IRS TYPE III Barricade	IMPACT RECOVERY SYSTEMS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-110</a>
WBT3-BR TYPE III Barricade	KORMAN SIGNS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-100 # 3</a>
WBT3-BRH TYPE III Barricade					<a href="#">WZ-100</a>
WBT3-SW TYPE III Barricade					<a href="#">WZ-100 # 3</a>
WBT3-SWH TYPE III Barricade					
Portable TYPE III Barricade	PLASTICADE PRODUCTS	TL-3	NCHRP-350	Temporary	<a href="#">WZ-11</a>
Angle Iron Portable TYPE III Barricade					<a href="#">WZ-54</a>
Telespar Portable TYPE III Barricade					
PST-111 TYPE III Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-61</a>
ANCHOR BARRICADE PST-111 TYPE III Barricade					<a href="#">WZ-152</a>
Sentinel TYPE III Barricade	PMG LIMITED	TL-3	NCHRP-350	Temporary	<a href="#">WZ-104</a>
TD2400 TYPE III Barricade	THREE D TRAFFIC WORKS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-217</a>
TD2400 TYPE III Barricade					<a href="#">WZ-132</a>
TD2600 TYPE III Barricade	THREE D TRAFFIC WORKS, INC.	TL-3	NCHRP-350	Temporary	<a href="#">WZ-128</a>
TD2650 TYPE III Barricade					
Power Post Type III Barricade	PLASTICADE	TL-3	MASH	Temporary	<a href="#">WZ-327</a>
Anchor Mast Type III Barricade	PLASTIC SAFETY SYSTEMS, INC.	TL-3	MASH	Temporary	<a href="#">WZ-389</a>

**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
<b>DelDOT Standard Item No. 810001</b>					
HI-PRO 350	UNITED RENTALS	TL-3	NCHRP 350	Permanent	<a href="#">WZ-74 *</a>
H-BASED	PENNDOT	TL-2	NCHRP 350	Permanent	<a href="#">WZ-266 *</a>
X-BASED		TL-2			
U-Channel Posts	Marion Steel Co.	TL-3	NCHRP 350	Permanent	<a href="#">SS-57A</a>
	Chicago Heights Steel	TL-3	NCHRP 350	Permanent	<a href="#">SS-54</a>
	Franklin Industries	TL-3	NCHRP 350	Permanent	<a href="#">SS-67</a>
U-Channel Bar Spacer	Chicago Heights Steel	TL-3	NCHRP 350	Permanent	<a href="#">SS-59A</a>
	Marion Steel Co.	TL-3	NCHRP 350	Permanent	<a href="#">SS-56</a>
	Franklin Industries	TL-3	NCHRP 350	Permanent	<a href="#">SS-09</a>
PSST	Allied Tube and Conduit Corp	TL-3	NCHRP 350	Permanent	<a href="#">SS-03</a>

**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
<b>DeIDOT Standard Item No. 808002</b>						
Vorteq Trailer TMA with Integral Arrowboard	Energy Absorption Systems, Inc.	TL-3	NCHRP 350	Trailer	9,920 lbs. MIN	<a href="#">CC-104A</a>
Alpha 100K TMA @ TL-3		TL-3	NCHRP 350	Truck Mounted	16,090 lbs. MIN	<a href="#">CC-39</a>
TL-3 U-Mad TMA with Sign Board	Barrier Systems	TL-3	NCHRP 350	Truck Mounted	19,000 lbs. MIN 20,000 lbs. MAX	<a href="#">CC-103A</a>
U-MAD Trailer Mounted Attenuator	Impact Absorption	TL-3	NCHRP 350	Trailer	18,850 lbs. MIN 20,830 lbs. MAX	<a href="#">CC-99</a>
Trailer TMA-100	Gregory	TL-3	NCHRP 350	Trailer	19,840 lbs. MIN	<a href="#">CC-90A</a>
TTMA-200	Gregory	TL-3	MASH	Trailer	10,000 lbs. MIN	<a href="#">CC-152</a>
Safe-Stop 180 Trailer TMA	Trinity Highway	TL-3	NCHRP 350	Trailer	19,000 lbs. MIN	<a href="#">CC-78D</a>
Safe-Stop 180 TMA		TL-3	NCHRP 350	Truck Mounted	19,000 lbs. MIN	<a href="#">CC-78A</a>
MPS 350 TMA @ TL-3		TL-3		Truck Mounted	15,000 lbs. MIN	<a href="#">CC-34B</a>
SS180M TMA	Trinity Highway	TL-3	MASH	Truck Mounted	13,500 lbs. MIN	<a href="#">CC-159</a>
SMT		TL-3	MASH	Trailer	12,000 lbs. MIN	<a href="#">CC-160</a>
Scorpion Attenuator Trailer	Traffix Devices, Inc.	TL-3	NCHRP 350	Trailer	10,000 lbs. MIN	<a href="#">CC-65B</a>
TMA Scorpion C 10,000 Model C and Model C-90		TL-3	NCHRP 350	Truck Mounted	19,840 lbs. MIN	<a href="#">CC-65</a>
MASH Traffix Scorpion II		TL-3	MASH	Truck Mounted	15,000 lbs. MIN	<a href="#">CC-132</a>
Scorpion II Trailer Attenuator		TL-3	MASH	Trailer	12,000 lbs. MIN	<a href="#">CC-138</a>
U-MAD 100 K Truck Mounted Attenuator	Albert W. Unrath, Inc.	TL-3	NCHRP 350	Truck Mounted	18,988 lbs. MAX	<a href="#">CC-64</a>
Verdegro BLADE TMA	Verdegro Holding BV	TL-3	MASH	Truck Mounted	16,010 lbs. MIN	<a href="#">CC-136</a>

**NOTES:**

1. Truck/Trailer Mounted Attenuators 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).
2. DeIDOT'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.