

Delaware Department of Transportation  
Approved Products List  
Temporary and Permanent Impact Attenuators

Product Name	Manufacturer	Test Level	Testing Criteria	Application	FHWA Eligibility Code
<b>2001 DeIDOT Standard Item No. 743026, 743027</b>					
<b>2016 DeIDOT Standard Item No. 809002, 809003</b>					
Absorb 350	<a href="#">Barrier Systems by Lindsay</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	CC-66, 66A, 66B
N-E-A-T System	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2	NCHRP-350	Temporary	CC-25
Triton Barrier CET	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-47, 47A, 47B, 47C
Triton Barrier CET (ACZ-350)	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-47D

Product Name	Manufacturer	Test Level	Testing Criteria	Application*	FHWA Eligibility Code
<b>2001 DeIDOT Standard Item No. 720517, 720554, 743028, 743029</b>					
<b>2016 DeIDOT Standard Item No. 724001-724006, 809004, 809005</b>					
ADIEM (Advanced Dynamic Impact)	<a href="#">Trinity Highway Products LLC</a>	TL-3	NCHRP-350	Temporary or Permanent	CC-38
CAT-350 (Crash Cushion Attenuating Terminal)	<a href="#">Trinity Highway Products LLC</a>	TL-3	NCHRP-350	Permanent	CC-33, 33A
X-TENUATOR	<a href="#">Barrier Systems by Lindsay</a>	TL-3	NCHRP-350	Temporary or Permanent	CC-109
TAU-II Crash Cushion	<a href="#">Barrier Systems by Lindsay</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	CC-75, 75A, 75B, 75C
TAU-IIR Crash Cushion	<a href="#">Barrier Systems by Lindsay</a>	TL-3	NCHRP-350	Temporary or Permanent	CC-75D
QUADGUARD / QUADGUARD II	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	CC-35 A-M
QUADGUARD M10	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	MASH	Temporary or Permanent	CC-112, 112A, 112B
QUADGUARD HIGH-SPEED (HS)	<a href="#">Energy Absorption Systems, Inc.</a>	TL-3	NCHRP-350	Permanent	CC-35E

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2016 DeIDOT Standard Item No. 724001-724006, 809004, 809005					
Trinity Attenuating Crash Cushion	<a href="#">Trinity Highway Products LLC</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	CC-54 A-H
FASTRACC	<a href="#">Trinity Highway Products LLC</a>	TL-3	NCHRP-350	Temporary or Permanent	CC-54 A-H
SHORTRACC	<a href="#">Trinity Highway Products LLC</a>	TL-2	NCHRP-350	Temporary or Permanent	
WIDETRACC	<a href="#">Trinity Highway Products LLC</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	
Compressor	<a href="#">Traffix Devices, Inc.</a>	TL-3	NCHRP-350	Permanent	CC-95 A-C
HEART	<a href="#">Trinity Highway Products LLC</a>	TL-3	NCHRP-350	Permanent	CC-89, 89A
QUADGUARD ELITE	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Permanent	CC-57 A-E
REACT 350 / 350 II / 350 CZ	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-26 A-I
Smart Cushion SCI70GM / SCI100GM	<a href="#">Work Area Protection, Corp.</a>	TL-2 or TL-3	NCHRP-350	Temporary or Permanent	CC-85, 85A, 85B

**\*Note: Designers shall confirm with product specifications to confirm appropriate application as temporary or permanent and identify product as sacrificial, reusable, or low maintenance.**

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<b>2001 DeIDOT Standard Item No. 743011</b>					
<b>2016 DeIDOT Standard Item No. 809007</b>					
Big Sandy	<a href="#">Traffix Devices, Inc.</a>	TL-3	NCHRP-350	Temporary	CC-52, 52A, 52B
CrashGard	<a href="#">Plastic Safety Systems, Inc</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-97, 97A
Energite III System	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-29
Fitch Universal Barrel System	<a href="#">Energy Absorption Systems, Inc.</a>	TL-2 or TL-3	NCHRP-350	Temporary	CC-28

**Test Level 2: Design Speed < 45 MPH**

**Test Level 3: All Design Speeds**

Impact attenuators not listed above shall not be used on any DeIDOT construction contracts without prior written approval from the DeIDOT Safety Programs Manager, who is responsible for the above Approved Products List (APL).

All manufacturers and distributors seeking approval for new products must submit a completed copy of the DeIDOT APL new product evaluation form, product materials technical data sheet, installation instructions, material safety data sheet, and copies of all related FHWA approval letters.

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The following tables list item descriptions in accordance with DeIDOT Standard Specifications.

DeIDOT Standard Items – 2001 Standard Specifications		
Item	UOM	Description
720517	EACH	IMPACT ATTENUATOR, TYPE I
720554	EACH	IMPACT ATTENUATOR, TYPE III
743011	EACH	CRASH CUSHIONS (SAND BARRELS)
743026	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - GATING NON-REDIRECTIVE, TEST-LEVEL 2
743027	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - GATING, NON-REDIRECTIVE, TEST-LEVEL 3
743028	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST-LEVEL 2
743029	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3

DeIDOT Standard Items - 2016 Standard Specifications		
Item	UOM	Description
809002	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - GATING, NON-REDIRECTIVE, TEST-LEVEL 2
809003	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR, GATING, NON- REDIRECTIVE, TEST LEVEL 3
809004	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 2
809005	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3
809007	EACH	FURNISH SAND CRASH CUSHION ARRAY
724001	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 1
724002	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 2
724003	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 3
724004	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 4
724005	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 5
724006	EACH	PERMANENT IMPACT ATTENUATOR, TYPE 6