

July 18, 2024

IMPACT ATTENUATORS

Specification Reference: 601.08

SM Material Code: 910M00850

Standard Drawings: 601-GAIA-01, 01A, 02 and 03; 601-IAED-01

For construction zone energy absorbing terminals CZ, see INDOT standard specifications 801.10.1.

*Products denoted (MASH) are compliant with the AASHTO Manual for Assessing Safety Hardware. Products denoted (350) are compliant with NCHRP Report 350. The following products are applicable for Impact Attenuators for Types ED, R1, R2, SD, or CR for a width designation of W1. For a width designation of W2 or W3, products should be selected from the Impact Attenuators product list for W2 and W3 applications.*

Source Code	Manufacturer Product	Type (s)	Approval Number	Comments
4648 4649 4650 4651	Hill & Smith----- SMART CUSHION (SCIGM)	ED, R1, R2, SD and CR	W078992	Width limit of 36 in. or less
4597	PLASTIC SAFETY SYSTEMS, INC----- CRASHGARD SAND BARREL SYSTEM (MASH) ED		W088990	
4591	TRAFFIX DEVICES, INC----- BIG SANDY (MASH)	ED	W028994	
4646	VALTIR, LLC----- ENERGITE III MODULE (MASH) ED		W028990	
4646	VALTIR, LLC----- QUADGUARD M10 (MASH)	ED, R1, R2, LS and SD	W188990	Width limit of 36 in. or less
4646	VALTIR, LLC ----- REACT M (MASH)	ED, R1, R2, and CR	W218961	Width limit of 30 in. or less
4571 4525 8614	VALTIR, LLC ----- CAT-350 (350)	ED	W028995	Alternate with guardrail transition piece.

Contractor to determine required space for installation including transition piece.

*The following products are applicable for Impact Attenuators for types R1, R2, SD, or CR with a width designation of W2 or W3.*

Source Code	Manufacturer Product	Type (s)	Approval Number	Comments
4648 4649 4650 4651	Hill & Smith----- SMART CUSHION (SCIGM)	ED, R1, R2, SD and CR	W078992	

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Source Code	Manufacturer Product	Type (s)	Approval Number	Comments
4647	LINDSAY TRANSPORTATION SOLUTIONS, LLC TAU-II (350)	R1, R2, LS and SD	W048990	
4646	VALTIR, LLC QUADGUARD II (350)	R1, R2, LS and SD	W028991	
8614	VALTIR, LLC TRACC (350)	R1, R2, and SD	W078991	
4646	VALTIR, LLC REACT 350 or REACT 350 II MODELS (350)	R1, R2, and CR	W028993	

Type Descriptions

ED: Energy dissipation device without redirective capabilities.

R1: Energy dissipation device with redirective capability on one side.

R2: Energy dissipation device with redirective capability on two sides.

CR (Clearance Restriction): Energy dissipation device with redirective capability on two sides. Products noted as type CR are acceptable for both type CR1 and CR2.

SD (Vertical Sight Distance Limitation): Energy dissipation device with redirective capability on two sides.

LS (Low Speed): Low speed energy dissipation device with redirective capability on two sides. Design speed of 30 mph or lower.

Width Designations

W1: Required for an obstruction that is not more than 3 ft wide.

W2: Required for an obstruction that is more than 3 ft wide but less than or equal to 6 ft wide.

W3: Required for an obstruction that is more than 6 ft wide but less than or equal to 8 ft wide.