

Acceptable Energy Attenuator Systems

TABLE 1 of OPSS 723 is deleted in its entirety and replaced with the following:

**TABLE 1
Energy Attenuator, Permanent (EAP)**

Energy Attenuator	NCHRP Report 350 or AASHTO MASH Crash Test Level		Permanent Installation					
	TL-2	TL-3	Narrow (NA)	Wide (WD)	Extra Wide (EW)	Super Wide (SW)	High Exposure (HE)	Single Sided (SS)
TAU-M System (Note 1)	Yes	Yes	Yes	No	No	No	No	No
TAU-II Wide System (Note 2)	Yes	Yes	No	Yes	No	No	No	No
TAU-II Extra Wide System	Yes	Yes	No	No	Yes	No	No	No
Quadguard M10 System (Note 1)	Yes	Yes	Yes	No	No	No	No	No
Quadguard M10 Wide System (Notes 1 and 2)	N/A	Yes	No	Yes	No	No	No	No
Quadguard Wide System (Note 2)	Yes	Yes	No	Yes	No	No	No	No
Quadguard Extra Wide System	Yes	Yes	No	No	Yes	No	No	No
Quadguard Super Wide System	No	Yes	No	No	No	Yes	No	No
<u>Delta System</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
QuadTrend	No	Yes	No	No	No	No	No	Yes
BB-Beat	No	Yes	No	No	No	No	No	Yes
Smart System (Note 1)	Yes	Yes	Yes	No	No	No	Yes	No
Hercules System (Note 1)	N/A	Yes	Yes	No	No	No	No	No

Note:

1. AASHTO MASH crash test compliant system.
2. The Quadguard M10 Wide (meeting AASHTO MASH TL-3) shall be used for Permanent Unidirectional configurations requiring a TL-3 crash test compliant system. For Permanent Unidirectional configurations requiring a TL-2 crash test compliant system and for all Bidirectional configurations of Energy Attenuator, Wide, systems listed on Table 1 and meeting NCHRP Report 350 shall be used.

TABLE 2 of OPSS 723 is deleted in its entirety and replaced with the following:

TABLE 2
Energy Attenuator, Temporary (EAT)

Energy Attenuator	NCHRP Report 350 or AASHTO MASH Crash Test Level		Temporary Installation					
	TL-2	TL-3	Reduced Exposure (RE) (Note 2)	Narrow (NA)	Wide (WI)	Extra Wide (EW)	Super Wide (SW)	Dual Duty (DD)
TAU-M System (Note 1)	Yes	Yes	No	Yes	No	No	No	No
TAU-II Wide System	Yes	Yes	No	No	Yes	No	No	No
TAU-II Extra Wide System	Yes	Yes	No	No	No	Yes	No	No
ABSORB 350 System	Yes	Yes	Yes	No	No	No	No	No
ABSORB-M System (Note 1)	Yes	Yes	Yes	No	No	No	No	No
Quadguard M10 System (Note 1)	Yes	Yes	No	Yes	No	No	No	No
Quadguard Wide System	Yes	Yes	No	No	Yes	No	No	No
Quadguard Extra Wide System	Yes	Yes	No	No	No	Yes	No	No
Quadguard Super Wide System	No	Yes	No	No	No	No	Yes	No
<u>Delta System</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>Yes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
ACZ 350 System	Yes	Yes	Yes	No	No	No	No	No
Smart System (Note 1)	Yes	Yes	No	Yes	No	No	No	Yes
SLED System	Yes	Yes	Yes	No	No	No	No	No
Hercules System (Note 1)	N/A	Yes	No	Yes	No	No	No	No
Notes:								
1. AASHTO MASH crash test compliant system.								
2. ABSORB 350 energy attenuator system shall be used when Movable Temporary Concrete Barrier is specified.								

WARRANT: Always with OPSS 723, Construction Specification for Energy Attenuators.