MDT Crash Cushions

Updated 6/18/2019

MASH Implementation Date: 12/31/2018*

*The Department may substitute NCHRP 350 crash cushions when an equivalent MASH 16 compliant crash cushion doesn't exist per <u>FHWA Memo HSST-1</u>

Overview:

The Department is transitioning crash cushions from the Detailed Drawings (NCHRP 350 devices) to the QPL (MASH devices) in response to the AASHTO/FHWA Joint Implementation Agreement for MASH. Not every system listed below meets the requirements of MASH and the Department will continue to install those systems until an acceptable MASH system is approved.

System Name	Detailed Drawing	MDT Effective Date	Testing Status	FHWA Eligibility	Notes
MASH Crash Cushion –	Manufacturer	Apr. 2019	MASH	FHWA Listing	See table below for available
Sacrificial	Detail	A 0040	MAGU	Listing	systems.*
MASH Crash Cushion –	Manufacturer	Apr. 2019	MASH	FHWA	See table below for available
Reusable	Detail			<u>Listing</u>	systems.*
MASH Crash Cushion –	Manufacturer	Apr. 2019	MASH	<u>FHWA</u>	See table below for available
Low-Maintenance	Detail			Listing	systems.*
Impact Attenuator -	606-30A	Sept. 2014	350		Use this system if no MASH system
Quadguard					is available for site conditions.
Impact Attenuator -	606-30B	Sept. 2014	350		Use this system if no MASH system
TRACC					is available for site conditions.
Impact Attenuator -	606-30C	Sept. 2014	350		Use this system if no MASH system
QÚEST		-			is available for site conditions.
Impact Attenuator -	606-30D	Sept. 2014	350		Use this system if no MASH system
Quadguard II					is available for site conditions.

^{*}The use of any of the systems listed in the table below requires a project-specific Public Interest Finding and coordination with MDT Maintenance.

SYSTEM: (Links below access the Roadside Safety Pooled Fund website for MASH systems)	NCHRP 350 (350) or MASH	Posted Speed (mph)	Approximate Outside Width (ft)	Maximum Shielded Object Width (ft)	Approximate System Length (ft)				
LOW MAINTENANCE									
QuadGuard Elite M10 TL-3 (24"/30"/36" widths)	MASH	<u>≥</u> 60	2.5/3.0 /3.5	2.0/2.5/3.0	27.1				
QuadGuard Elite M10 Wide TL-3 (69"/90" widths)	MASH	<u>></u> 60	6.3/8.0	5.8/7.5	27.1				
SCI100GM	MASH	<u>></u> 60	3.1	2.0/2.5/3.0	21.5/24.4/25.9				
REUSABLE									
QuadGuard M10 TL-3 (24"/30"/36" widths)	MASH	<u>></u> 60	2.5/3.0 /3.5	2.0/2.5/3.0	22				
QuadGuard M10 Wide TL-3 (69"/90" widths)	MASH	<u>></u> 60	6.3/8.0	5.8/7.5	22				
SACRIFICIAL									
MAX-Tension - Median	MASH	≥ 60	2.5	2	55.5				