

# MDT Crash Cushions

Updated 1/21/2025

**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 [FHWA Memo HSST-1](#)

## 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 – Sacrificial	Manufacturer Detail	Apr. 2019	MASH	<a href="#">FHWA Listing</a>	See table below for available systems.*
MASH Crash Cushion – Reusable	Manufacturer Detail	Apr. 2019	MASH	<a href="#">FHWA Listing</a>	See table below for available systems.*
MASH Crash Cushion – Low-Maintenance	Manufacturer Detail	Apr. 2019	MASH	<a href="#">FHWA Listing</a>	See table below for available systems.*

\*The use of any of the systems listed in the table below requires 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					
<a href="#">QuadGuard Elite M10 TL-3 (24"/30"/36" widths)</a>	MASH	≥ 60	2.5/3.0 /3.5	2.0/2.5/3.0	27.1
<a href="#">QuadGuard Elite M10 Wide TL-3 (69"/90" widths)</a>	MASH	≥ 60	6.3/8.0	5.8/7.5	27.1
<a href="#">SCI100GM</a>	MASH	≥ 60	3.1	2.0/2.5/3.0	21.5/24.4/25.9
REUSABLE					
<a href="#">QuadGuard M10 TL-3 (24"/30"/36" widths)</a>	MASH	≥ 60	2.5/3.0 /3.5	2.0/2.5/3.0	22
<a href="#">QuadGuard M10 Wide TL-3 (69"/90" widths)</a>	MASH	≥ 60	6.3/8.0	5.8/7.5	22
SACRIFICIAL					
<a href="#">MAX-Tension - Median</a>	MASH	≥ 60	2.5	2	55.5