

Two Sided End Treatment and Crash Cushion (Types D,E,F,J) STD MD-605.12**List of Qualified Products**

Traffic Barrier End Treatments

MASH 2016 Products

| Product | Producer | Approval Date | Recertification Date | Permanent | Temporary | Model Number | Test Level | Type |
|----------------------------------|-------------------------------|---------------|----------------------|-----------|-----------|----------------------|------------|------|
| MAX-Tension Median End Treatment | Barrier Systems, Inc. | 01/09/2020 | 01/31/2025 | Yes | No | Median TL-3 | TL-3 | D, F |
| QUADGUARD M10 | Trinity Highway Products, LLC | 12/21/2018 | 12/31/2023 | Yes | Yes | MASH TL-3, 24IN WIDE | TL-3 | E |
| SCI SMART CUSHION | Work Area Protection, Corp. | 07/10/2017 | 07/31/2022 | Yes | Yes | SCI100GM | TL-3 | E, J |
| TAU-M | Barrier Systems, Inc. | 05/21/2019 | 05/31/2024 | Yes | Yes | Universal TAU-M | TL-3 | E, J |

NCHRP 350 Products

| Product | Producer | Approval Date | Recertification Date | Permanent | Temporary | Model Number | Test Level | Type |
|---|---------------------------------|---------------|----------------------|-----------|-----------|--------------|------------|------|
| FLARED ENERGY ABSORBING TERMINAL (FLEAT-MT) | Road Systems, Inc. | 08/24/2011 | 03/31/2025 | Yes | No | N/A | TL-3 | D |
| QUADGUARD | Energy Absorption Systems, Inc. | 06/21/1996 | 03/31/2025 | Yes | Yes | N/A | TL-3 | E |
| QUADGUARD CZ | Energy Absorption Systems, Inc. | 10/07/2014 | 03/31/2025 | No | Yes | N/A | TL-3 | E |
| QUADGUARD ELITE | Energy Absorption Systems, Inc. | 06/17/1999 | 03/31/2025 | Yes | No | N/A | TL-3 | E, J |
| QUADGUARD II | Energy Absorption Systems, Inc. | 03/20/2009 | 03/31/2025 | Yes | Yes | N/A | TL-3 | E |
| QUADGUARD LMC | Energy Absorption Systems, Inc. | 12/01/1997 | 03/31/2025 | Yes | Yes | N/A | TL-3 | E, J |
| QUEST | Energy Absorption Systems, Inc. | 02/17/2005 | 03/31/2025 | Yes | Yes | N/A | TL-3 | E |
| REACT-350 | Energy Absorption Systems, Inc. | 04/12/1995 | 03/31/2025 | Yes | Yes | N/A | TL-3 | E, J |

NOTE: Products listed under "NCHRP350 Products" section are applicable when there are no MASH 2016 products available that fit the project's context. Products may be used as approved by the Engineer of Record. The Engineer of Record refers to a Project's design Engineer or plan sheet approver who is a Licensed Engineer in the field of design and MASH implementation.

NCHRP 350 Products

| Product | Producer | Approval Date | Recertification Date | Permanent | Temporary | Model Number | Test Level | Type |
|---|-------------------------------|---------------|----------------------|-----------|-----------|-------------------|------------|------|
| TAU-II | Barrier Systems, Inc. | 09/14/2001 | 03/31/2025 | Yes | Yes | Universal II | TL-3 | E |
| TRAFFIX COMPRESSOR ATTENUATOR | TrafFix Devices, Inc. | 02/14/2013 | 03/31/2025 | No | Yes | 55000 Series | TL-3 | E, J |
| TRINITY ATTENUATOR CRASH CUSHION (TRACC) | Trinity Highway Products, LLC | 11/13/1998 | 03/31/2025 | Yes | Yes | TRACC | TL-3 | E |
| X-TEN | Barrier Systems, Inc. | 04/25/2012 | 03/31/2025 | Yes | No | X-TENuator System | TL-3 | E |
| X-TENSION GUARDRAIL END TERMINAL (MEDIAN) | Barrier Systems, Inc. | 11/05/2007 | 03/31/2025 | Yes | No | X-MAX System | TL-3 | D, F |

NOTE: Products listed under "NCHRP350 Products" section are applicable when there are no MASH 2016 products available that fit the project's context. Products may be used as approved by the Engineer of Record. The Engineer of Record refers to a Project's design Engineer or plan sheet approver who is a Licensed Engineer in the field of design and MASH implementation.