

Product Evaluation Coordinator Colorado Department of Transportation 4670 North Holly Street, Unit A Denver, Colorado 80216	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 2px;">Material Code <b>614.07.02.00</b></td> <td style="width:50%; padding: 2px; text-align: right;"><small>CDOT Use Only</small></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Material Code description full name <b>Impact Attenuator</b></td> </tr> </table>	Material Code <b>614.07.02.00</b>	<small>CDOT Use Only</small>	Material Code description full name <b>Impact Attenuator</b>	
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**Part 1**

Product name: <b>QuadGuard® M10 24in</b>	Product category: <b>Road. Safety\Crash Cushion\Impact Attenuator, Std., Perm.</b>
Product Representative (name & address): Attn: <b>Michael Madden</b>  <b>Valtir, LLC.</b> <b>15601 Dallas Parkway, Suite 525</b> <b>Addison, TX. 75001</b>	Manufacturer (name & address): Attn: <b>Michael Madden</b>  <b>Valtir, LLC.</b> <b>15601 Dallas Parkway, Suite 525</b> <b>Addison, TX. 75001</b>
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Web-site address: <b>www.valtir.com</b>	Web-site address: <b>www.valtir.com</b>

**Description of the product:** (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

The QuadGuard® M10 24in is a re-directive crash cushion, tested per MASH Test Level ("TL") 2 and TL-3 criteria. The system is non-gating and potentially reusable. The QuadGuard® M10 24in consists of a steel nose with energy-absorbing cartridges, surrounded by a framework of steel Quad-Beam panels, steel diaphragms and guides, monorail shims, monorail base and self-contained/tension-strut backup or concrete backup options. The QuadGuard® M10 24in designed to shield hazards up to 24in wide. The TL-2 system is a three-bay unit and is 11' 8" in length. The TL-3 system is a six-bay unit and is 20' 8" in length.

**Restrictions,** (installation and/or use):  
 In bi-directional applications, within the clear zone of opposing traffic, the proper transition panel is required for impact performance on a "reverse" hit.

**Use of the product,** (be specific to CDOT highway activities only):  
 QuadGuard® M10 24in is designed to be used to protect hazards, such as concrete barrier/wall/parapet, bridge piers, thrie-beam and w-beam guardrails.

**Benefits to CDOT,** (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):  
 Tested per MASH TL-2 and TL-3 test criteria for various design speeds. Utilizes many of the same components as the QuadGuard® family of impact attenuators.

- Specifications:** (listing those applicable is required)
- CDOT : 614.07
  - ASTM :
  - AASHTO: MASH 2016
  - FHWA : Eligibility Letters TL-3-CC112B &CC-112C; TL-2 - CC121 &CC-112C
  - other :

Certificate of Compliance (COC) provided       Certificate of Verification (COV) provided for select categories

**Product Testing:** (National/independent laboratories or universities with Report Date.) **Certified Test Report (CTR)** provided to validate all claims.

- NTPEP-AASHTO:
- FHWA :
- other :
- other :
- other :

**State DOT Approvals,** (current documentation required): 38 of 50 states      **Expiration Date** 5 Years CDOT u02/27/2029

Sample submitted:  yes     no     n/a      Safety Data Sheets (SDS):  yes     no     n/a

Alternate Product Category:

**CDOT Product Restrictions by CDOT Evaluator:**  
 The six (6) Bay QuadGuard® M10 is acceptable for use on CDOT facilities for which MASH TL-2 or TL-3 is appropriate. The three (3) Bay QuadGuard® M10 is acceptable for use on CDOT facilities only for which MASH TL-2 is appropriate. The latest QuadGuard® M10 product manual must be made available to and followed by workers overseeing and/or assembling the product at all times.

**Evaluators Signature:**  
**David L. Kosmiski**  
Digitally signed by David L. Kosmiski  
 Date: 2024.06.05 11:54:13 -06'00'