# Crash Cushions

**Date last edited:** 4/27/2020

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>Bid Items</th>
<th>Test Levels</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuadGuard II</td>
<td>Energy Absorption, Inc./A Trinity Industries Inc. Company</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>QuadGuard CZ</td>
<td>Energy Absorption, Inc./A Trinity Industries Inc. Company</td>
<td>Y</td>
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</tr>
<tr>
<td>Quest</td>
<td>Energy Absorption, Inc./A Trinity Industries Inc. Company</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>REACT 350 II</td>
<td>Energy Absorption, Inc./A Trinity Industries Inc. Company</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Smart Cushion</td>
<td>Hill &amp; Smith</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>TAU II</td>
<td>Lindsay Transportation Solutions, LLC</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>TAU II-R</td>
<td>Lindsay Transportation Solutions, LLC</td>
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<td>Y</td>
<td>Y</td>
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<tr>
<td>X-Tenuator</td>
<td>Lindsay Transportation Solutions, LLC</td>
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<tr>
<td>TAU-M</td>
<td>Lindsay Transportation Solutions, LLC</td>
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<td>Y</td>
</tr>
</tbody>
</table>

**Manufacturer**

Lindsay Transportation Solutions, LLC  
180 River Road Rio Vista, CA 94571  
Energy Absorption, Inc./A Trinity Industries Inc. Company  
35 E. Wacker Drive Chicago, IL 60601 or 2525 N Stemmons Freeway, Dallas, TX 75207  
Hill & Smith  
987 Buckeye Park Road Columbus OH 43207

**Address (1)**

**Table Notes**

Y-indicates system may be used for that specific bid item and test level.  
(1)-Address provided is for main office. Distributor’s office not indicated.  
(2)-NCHRP 350 temporary crash cushions will not be allowed on projects let after December 1, 2023.

**Project LET after December 31, 2018 are required to use this approve products list.**  
**Project LET prior to December 31, 2018 may use this or an old approved products list.**

**Contact:**  
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Madison, WI 53707-7916  
E-mail:  
erik.emerson@dot.wi.gov

**General Notes:**

Immediately report any manufacturer’s modification to approved product to Department’s contact person listed above.  
Failure to report changes can cause hardware to be removed from Approved Product List.

The minimum amount of information the Department requires for review is: crash test videos, crash test reports, eligibility/approval letters, installation manuals, maintenance manuals, itemized repair cost (including labor time and material cost) for the various crash tests performed and Wisconsin P.E. stamped drawings that comply with the Department’s design guidance for crash cushions to determine if a product can be placed on the Approved Product List.

If a manufacturer submits a product without running the full crash test matrix one of the following documents is required:  
1. A document from a ISO/IEC 17025 (A2LA) accredited lab that provides a detailed justification for not running the full matrix of tests. This lab is to be independent of the manufacturer.  
2. A P.E. stamped document that provides a detailed justification for not running the full matrix of tests. This P.E. is to be licensed in the State of Wisconsin.

Manufacturer should review information provided in WisDOT’s Construction and Material Manuals Section 6-27, and 614 of WisDOT’s Standard Specifications for more information.

The Department reserves the right to request additional information at anytime.

Providing documentation to the Department for review does not automatically grant approval of product.