

**TECHNICAL  
BRIEF**

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## **Product Specification**

### **U-MAD<sup>®</sup> 100 K Truck Mounted Attenuator**

#### **I. General**

The U-MAD truck mounted attenuator (TMA) shall consist of the following basic components, manufactured by Barrier Systems Incorporated:

1. An under ride for attaching the U-MAD TMA to a truck.
2. A support structure that houses the hydraulic lift system.
3. An energy absorbing cartridge.

#### **II. Dimensional / Operational Requirements**

1. The U-MAD TMA is mounted on a truck chassis with a uniform clearance of 11 to 13 inches (28 to 33 cm) between the bottom of the cartridge and the roadway.
2. All welds on the U-MAD TMA have been made by certified welders.
3. All exposed steel and aluminum surfaces of the U-MAD TMA will be primed and painted.
4. The U-MAD TMA and support structure in the up position have a total height of 12' 6" (3.8 m).
5. A 12 volt or 24 volt preassembled and mounted hydraulic system will be provided to raise/lower the TMA from 0° to 90°. This comes standard with locking pins to manually lock the system when in the up position.
6. Optional support structures are available when clearance is required for truck salt spreading units, long truck decks, and other equipment.
7. All cartridges will be approximately 90" (229 cm) in width to protect the support vehicle and errant motorist.
8. The U-MAD TMA rests upon the support structure when in the up position to significantly reduce wear and tear from the riggers of travel.
9. All standard U-MAD TMAs shall have a complete cab control box for lifting and lowering of units.
10. All U-MAD TMAs are to be equipped with (2) jack units at the front and (2) detachable storage stands at the rear of the cushion.
11. The U-MAD TMA is subject to a full QC inspection by the manufacturer before being shipped.

### **III. U-MAD 100K Specific Specifications**

Cartridge:      Length: 129" (327 cm)  
                    Width: 90" (229 cm)  
                    Height: 28" (71 cm)

**Cartridge Construction:**

The energy absorbing cartridge consists of an aluminum box structure with a steel support base. The cartridge contains eight compartments of cellular velocity dissipating material.

Mounted Height (top of cartridge in down position): Approximately 40.5" (103 cm)

Total length with lift in down position (from back of truck): Approximately 13'8" (416 cm)

Weight:            Cartridge only: 910 lbs (413 kg)  
                    Support Structure only: 388 lbs (176 kg)

**ICC Lights on Cartridge:**

Standard trailer lighting system, including: Stop/Turn, tail lights and ID Bar in both the up and down positions.