

# QuadGuard® II

CRASH CUSHIONS



# QuadGuard® II

The QuadGuard® II is a redirective, non-gating crash cushion that consists of an engineered steel nose and crushable, energy absorbing cartridges surrounded by a framework of steel Quad-Beam™ panels. The system is tested to NCHRP Report 350 Test Level 2 and Test Level 3. The Test Level 2 model is 25% shorter than the original QuadGuard® measuring less than 10' (3 m). The Test Level 3 model is nearly 3' (.9 m) shorter in length than its predecessor. The QuadGuard® II can be used to shield fixed objects 24" to 126" wide (610 mm to 3.2 m) while using less than 19' in length (22' for the 126").

The QuadGuard® II, as a member of the QuadGuard® family of crash cushions, consists of many of the same components as the QuadGuard.



## FEATURES

- Self-supporting steel nose, custom cut-out available.
- Monorail guide shims to stabilize the diaphragms.
- Footprint is 25% less for TL-2 and 3' less for TL-3 than the original QuadGuard®.
- High strength Quad-Beam™ panels.
- Does not use anchoring chains or tension cables.
- Compact, modular design tested to speeds from 25 mph (40 km/h) to 62 mph (100 km/h).

## ASSEMBLY AND MAINTENANCE

- Damaged cartridges are replaceable.
- Monorail base does not use anchoring chains or tension cables.
- Anchorage options include asphalt, concrete, and soil-drive pile.
- Potentially reusable after an impact within NCHRP Report 350 crash test standards.\*

## BACK-UP STRUCTURE AND ATTACHMENTS

- Simplified backups – Tension strut or concrete
- Bridge pier(s) and parapet(s)
- Square block(s)
- Temporary and permanent concrete barrier(s)
- Thrie-beam
- W-beam

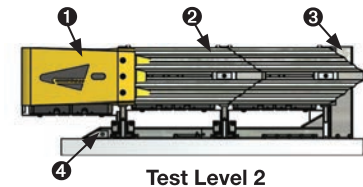
## SPECIFICATIONS

### Test Level 2 Two-Bay Unit

- (Available in widths of 24", 30", 36" & 48")
- 9' 11" Long (3.03 m)
  - 24" (610 mm) Min. Width and 48" (1.22 m) Max. Width at Backup Structure
  - 24" Wide Unit: 1,210 lbs. (549 kg)

### Test Level 2 Three-Bay Unit

- (Available in widths of 69" & 90")
- 69" & 90" Wide Units are 13' Long (3.96 m)
  - Max. Width for Three-Bay is 90" (2.29 m)

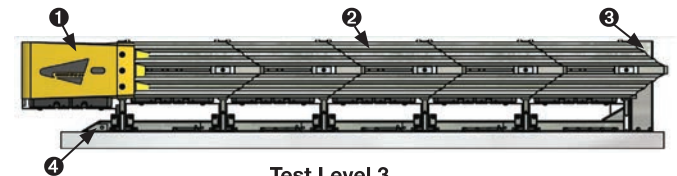


### Test Level 3 Five-Bay Unit

- (Available in widths of 24", 30", 36", 48", 69" & 90")
- 19' Long (5.8 m)
  - 24" (610 mm) Min. Width at Backup Structure
  - 24" Wide Unit: 2,455 lbs. (1,114 kg)

### Test Level 3 Six-Bay Unit

- (Available in width of 126")
- 22' Long (6.73 m)
  - 126" (3.2 m) Max. Width at Backup Structure



- ① Engineered Steel Nose
- ② Quad-Beam Panel
- ③ Steel Backup
- ④ Monorail Base

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