

QuadGuard™ CEN System

Crash Cushion system for protection of fixed objects on road speeds of up to 110 Km/h.



Overview

The QuadGuard CEN System, the next generation of the QuadGuard Family, is designed to protect motorists in vehicles from 900 kg to 1500 kg from roadside hazards as narrow as 610 mm and as wide as 2285 mm. The QuadGuard CEN System, has been tested in Europe as a redirective crash cushion to the maximum 110 km/h using 1317-3 criteria. To fully comply with the definition of a System Type tested crash cushion, the QuadGuard CEN has been further tested at 100 km/h, 80 km/h, and 50 km/h.

The QuadGuard CEN family of crash cushions provides a broad range of impact protection for a variety of hazards and speeds, yet shares a number of common components. All members of the QuadGuard CEN family feature Energy's exclusive Quad-Beam™ fender panels, which provide 30 percent higher beam strength than conventional three-beam. The interchangeability of parts in the QuadGuard CEN family significantly reduces stock requirements.

Product features & Benefits

- Re-directive crash cushion tested to EN1317-3 at 110 km/h, 100 km/h, 80 km/h & 50 km/h.
- Protects hazards from 610mm to 2285mm wide.
- Durable nose can withstand nuisance impacts with no damage.
- Up to 95% reusability after design impacts
- Monorail base eliminates the need for anchoring chains and tension cable - easier installation



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QUICK & EASY REFURBISHMENT



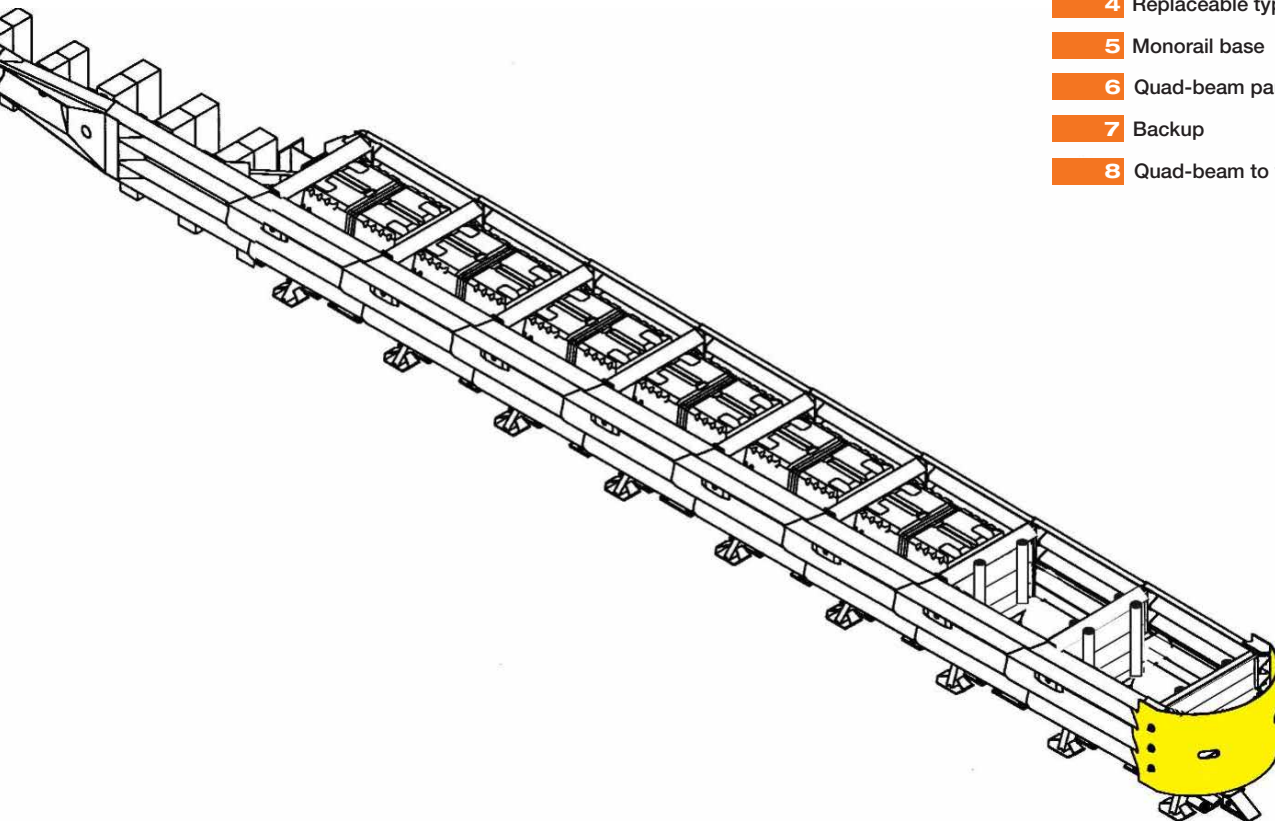
During head-on impacts at speeds up to 110 km/h, the QuadGuard CEN System telescopes rearward, crushing the cartridges and effectively dissipating the energy of both light cars (900kg) and large sedans (1500kg). During angle impacts at angles up to 15 degrees, the vehicles are safely redirected back into the original travel path.

After a design impact, the QuadGuard CEN System can be quickly and easily refurbished by a two man team. The majority of the components typically are reusable after a design impact.

SPECIFICATIONS

Minimum Width at Backup	610mm
Maximum Width at Backup	2248mm
Length	
110Km/h 8-Bay System	7.97m
100km/h 6-Bay System	6.13m
80km/h 5-Bay System	5.22m
50km/h 3-Bay System	3.40m

- 1 Self supporting nose
- 2 Energy absorbing diaphragms & bumpers
- 3 Quad-beam diaphragms
- 4 Replaceable type-e cartridge
- 5 Monorail base
- 6 Quad-beam panel
- 7 Backup
- 8 Quad-beam to w-beam transitions



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