Sentre®

Guardrail End Treatment

- Meets latest federal safety standards (NCHRP 230)
- Unique telescoping side panels
- Low initial cost
- High reusability
- Flared and straight treatments available

The safe solution for hazardous guardrail ends

Sentre® is a crashworthy guardrail end treatment designed to eliminate hazards inherent in most guardrail ends. Sentre protects motorists from that unforgiving "hard spot" on a guardrail, without the vaulting, ramping, and spearing experienced with other types of guardrail end treatments.

A Sentre unit consists of fender panels, support posts with slip bases, and sand-filled boxes, which help dissipate a portion of the collision energy. Connected to the end of a new or existing guardrail, Sentre provides a redirectional barrier between an errant vehicle and the beginning of the standard guardrail section. With a unique system of telescoping panels plus a redirecting cable that directs the panels sideways, Sentre gently guides an impacting vehicle away from the hard spot. When struck, the fender panels telescope longitudinally to safely redirect and decelerate the errant vehicle.

All major components are reusable after a typical hit. This reusability, plus Sentre's low initial cost, makes it a safe, economical solution for dangerous guardrail ends.

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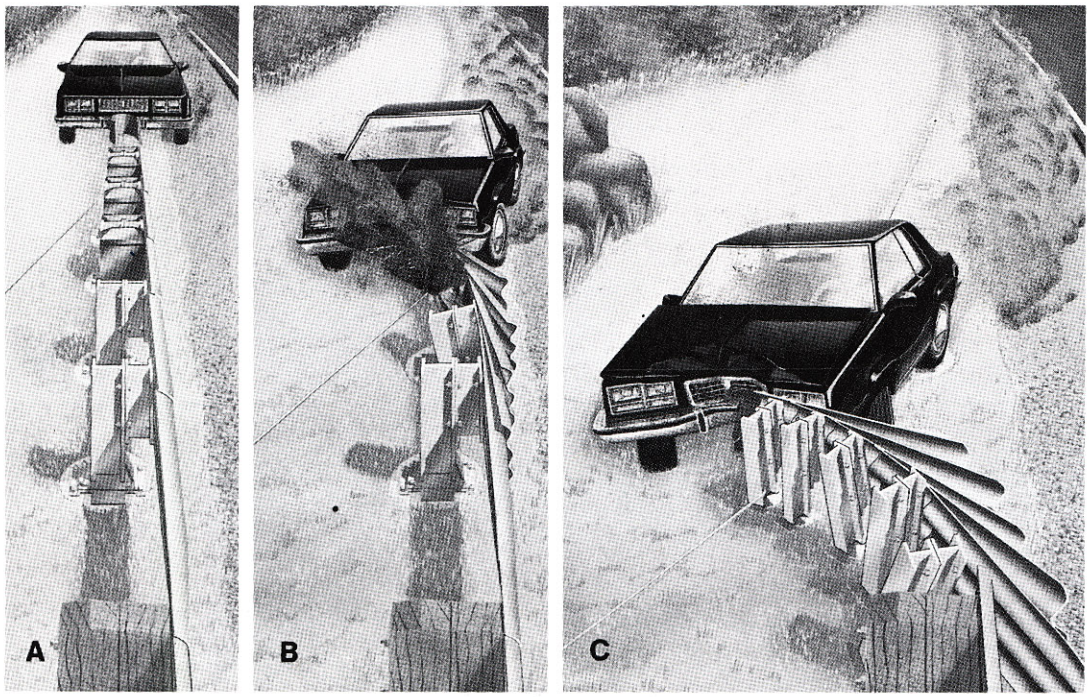
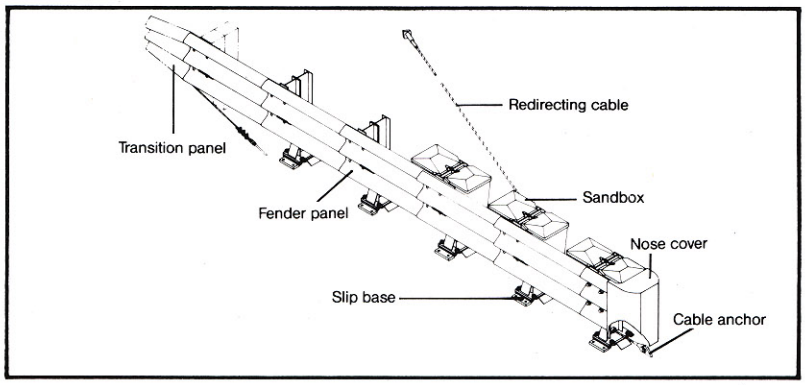
Sentre® Guardrail End



A Car impacts Sentre head-on.

B Redirecting cable helps direct the vehicle away from the guardrail end.

C Vehicle is safely stopped without vaulting, ramping, or spearing caused by other guardrail end treatments.

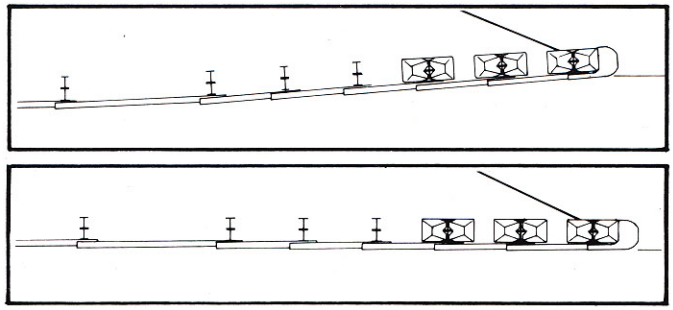


Design Advantages:

- Designed to fully meet NCHRP 230 criteria.
- Unique redirecting cable and telescoping panels pull the unit sideways, guiding an impacting vehicle away from the guardrail hard spot.
- All principal components can be repositioned and reused after most impacts.
- Sentre can be installed by a three-man crew in a few hours.
- A consistently safe deceleration G-load level is maintained by Sentre for 1,800-pound to 4,500-pound vehicles at speeds up to 60 mph within the limits of the design criteria.

System Characteristics:

Length	17 ft
Width	2 ft
Weight	930 lbs
Debris scatter	Sand and sandboxes
Repair time for 3-man crew	Less than 2 hours
Equipment needed for repair	Truck, wrenches, tow chains



Sentre can be installed as a straight or flared unit.

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