



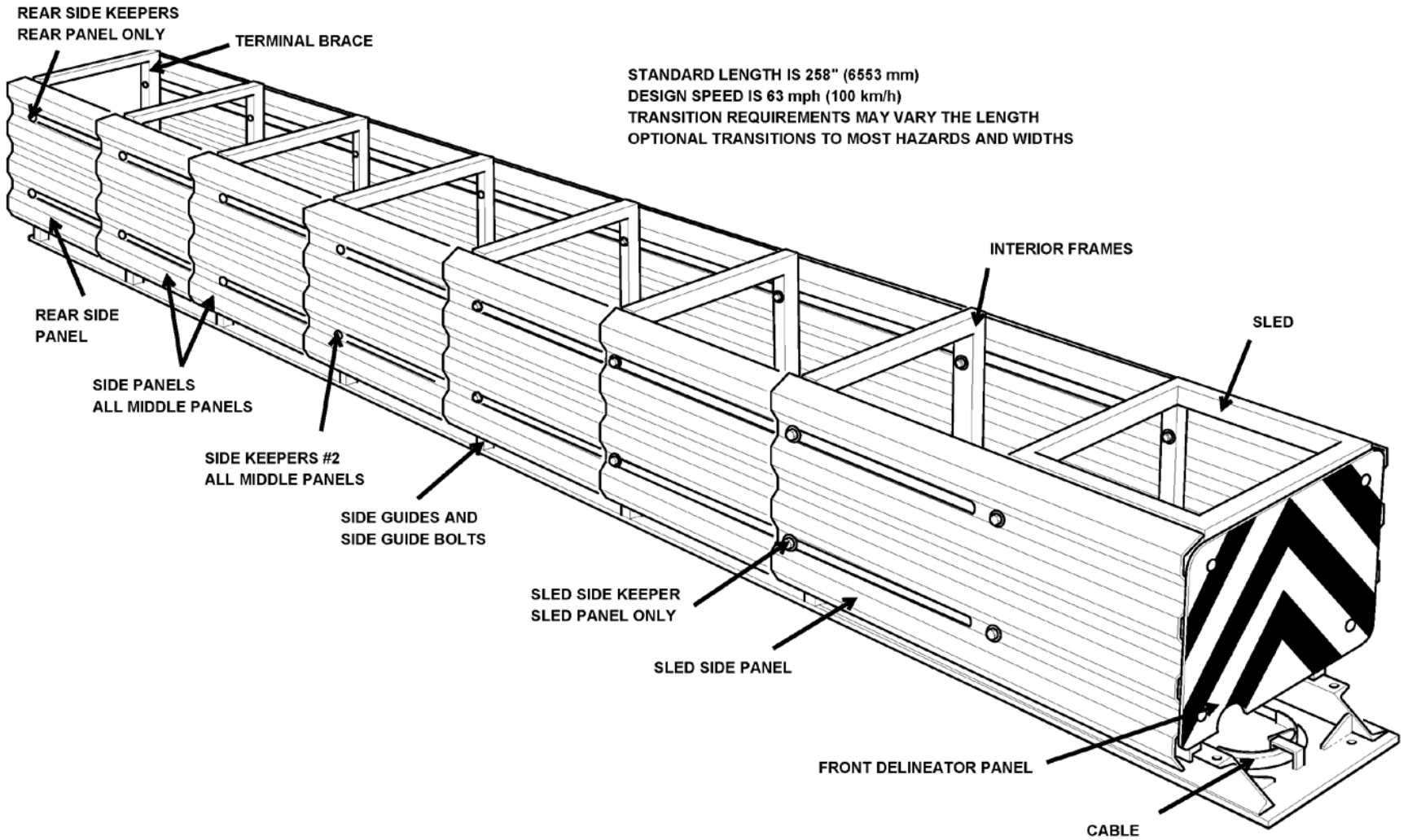
SCI Products Inc.
A Division of Stabler Companies Inc.

SCI100GM IMPACT ATTENUATOR

SCI17a

SHEET NO. DATE

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DESCRIPTION

The SCI100GM impact attenuator was designed to provide a variable stopping force based on speed to give a smooth ridedown for a wide variety of speeds and masses. The critical NCHRP350 Test #3-32 (15 degree frontal impact with the 820kg vehicle) reported a ridedown acceleration of -13.2 G's. The NCHRP350 side impact tests resulted in the vehicles exiting the SCI100GM post impact at an angle of <1 degree.

The SCI100GM uses a hydraulic shock-absorbing cylinder to give a smooth ridedown. The telescoping fender panels are slightly tapered to allow a smooth stress-free nesting during collapse. The SCI100GM uses a 1.125" (29mm) IWRC galvanized cable to control the front sled's rearward travel.

The SCI100GM only requires two 1/4" (6mm) x 1.75" (44mm) grade 8 shear bolts to be replaced after a frontal impact within NCHRP350 design criteria. Side impacts under NCHRP350 design criteria should not result in any damage due to the new side panel configuration. A reset can be performed in less than one (1) hour by an experienced repair crew.

The SCI100GM has transitions to 24" (610mm), 30" (762mm) and 36" (914mm) obstacles as well as gore area configurations. Wider width may affect the length of the system.

SPECIFICATIONS

Non-Gating	Length	21.5' (6.55m)
Redirectional	Width	24" (610mm)
Non-Pocketing	Height	2.75' (840mm)
Bidirectional	Weight	3450 lb (1,565kg)
Fully Reusable		

APPROVAL

The SCI100GM impact attenuator was tested to the NCHRP350 Test Level 3 criteria and was approved in the FHWA acceptance letter CC-85 at http://safety.fhwa.dot.gov/roadway_dept/road_hardware/barriers/pdf/cc85.pdf.

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