



SCI SMART CUSHION - SCI100GM



Work Area Protection Corp.

SCI17a, d

SHEET NO.

DATE

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2/8/17

INTENDED USE

The SCI SMART CUSHION (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. It performed and passed all MASH tests including the optional mid-size vehicle test #3-38. This system was first tested to NCHRP 350 and passed all MASH tests with no changes.

The SCI100GM uses a hydraulic shock-absorbing cylinder to give a speed dependent, smooth ridedown. The telescoping fender panels are slightly tapered to allow a smooth stress-free nesting of the frames and side panels during collapse. The SCI100GM uses a 1.125" (29mm) IWRC galvanized cable to control the front sled's rearward travel. Galvanizing and Welding meet standards ASTM A123 and AWS D1.1, respectively.

The SCI100GM only requires the replacement of two 1/4" (6mm) x 1.75" (44mm) grade 8 shear bolts after a frontal impact within MASH design criteria. A reset can typically be performed in less than 30 minutes by an experienced repair crew.

The SCI100GM has transitions to 24" (610mm), 30" (762mm) and 36" (914mm) hazards as well as gore area configurations. Guardrail and other transitions are also available. Wider widths may affect the length of the system.

SPECIFICATIONS

Non-Gating	Length	21.5' (6.55m)
Redirectional	Width	24" (610mm)
Non-Pocketing	Height	33" (840mm)
Bidirectional	Weight	3450 lb (1,565kg)
Fully Reusable		

APPROVAL

The SCI SMART CUSHION (SCI100GM) impact attenuator was fully tested in conformance to MASH criteria as a test level 3 impact attenuator and is eligible for reimbursement by the FHWA.

FHWA Eligibility Letters:

CC-85 dated September 12, 2003 - SCI17a for NCHRP 350 Test Level 3

CC-128 dated August 16, 2016 - SCI17d for MASH Test Level 3

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