

## Department of Transport and Main Roads

### Road Safety Barrier Systems and End Treatments: Product Information Sheet

This information sheet shall be, where relevant, read in conjunction with the manufacturer's latest manual.

## SMART Cushion

**Created:** Friday, 7 November 2014

10:00 AM

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**Status\*:** Accepted

\* TMR reserves the right to alter the Status and Status Expiry Date at any time. Always refer to latest version of TMR's Road Safety Barrier Systems and End Treatments document.

**Status Commencement Date:** Aug 2014

**Status Expiry Date\*:** Not Set

**Category:** End Treatment

**Gating/Non-Gating:** Non-Gating

**Sub Category:** Attenuator

**Redirective/Non-Redirective:** Redirective

**Main Material:** Steel

**Permanent/Temporary:** Permanent

**Ownership:**

LB Australia Pty Ltd  
www.lbaustralia.com.au

**Supplier:**

LB Australia Pty Ltd  
www.lbaustralia.com.au



**Introduction:**

SMART Cushion is a restorable/reusable crash cushion which can be transitioned to single slope and to Type F concrete road safety barrier.

**Test Level:**

Two variants are accepted:

SMART CUSHION SCI100GM tested to NCHRP report 350 test level TL-3

SMART CUSHION SCI70GM tested to NCHRP Report 350 test level TL-2

**Recommended End Treatments:**

Not Applicable.

## **SMART Cushion**

### **Design:**

The SMART Cushion must be installed and maintained in accordance with the SMART Product Manual.

In situations where traffic is approaching from the rear of the system the Designer must choose the appropriate transition (refer to Product Manual). Transition type must be specified by the Designer.

### **System Width**

100 km/h (SCI100GM)	0.96 m
70 km/h (SCI70GM)	0.88 m

### **Deflection:**

Not applicable.

### **Limitations:**

Cannot be used on crossfalls steeper than 10%.

Elevated kerbs, islands, drainage structures or any other item that can affect the height at which a vehicle could impact the unit should not be placed 15m prior to the unit or along the length of the unit. Refer RPDM Ch.8/8.2.2.2 for further discussion.

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### **References:**

- AS/NZS 3845:1999
- NCHRP Report 350
- Austroads Acceptance Conditions Document (30-Jun-2014)
- SMART Cushion Product Manual dated July 2012
- FHWA letter ref. CC-85 dated 12-Sep-2003
- FHWA letter ref. CC-85A dated 2-Feb-2005