

ABSORB 350 CRASH ATTENUATOR

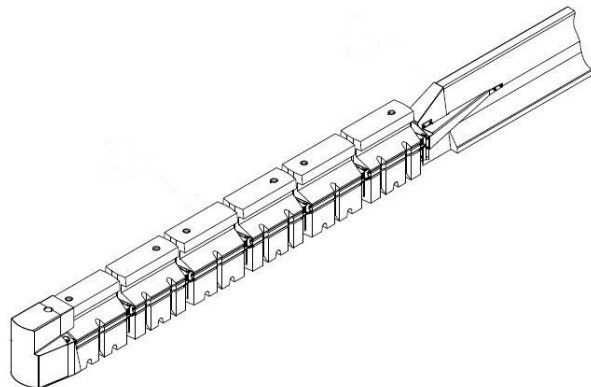
REVISION REGISTER

Issue & Revision	Description	Date
1	Issued for use.	23/02/2004
1 A	Minor editorial revisions and stipulation that system is not to be used in a permanent application.	3/03/2006
1 B	Supplier details amended.	12/06/2007
1 C	Approval for TL 3 version removed	23/11/2012
1 D	Updated Supplier Updated I&M details	23/02/2016
1 E	Hazard free area requirement clarified. Manual version updated.	29/10/2018
1 F	Absorb 350 no longer accepted for installations after phase out period.	9/08/2021
1 G	Supplier updated.	12/01/2024

Absorb 350 is a plastic water filled non-redirective, gating crash attenuator that attaches to temporary workzone barriers with a steel transition piece.

With the acceptance of the Absorb-M End Terminal by Main Roads on 9 August 2021, the Absorb 350 system will not be accepted for temporary installations on Main Roads WA contracts awarded after 1 January 2022.

Images:



Isometric View: Absorb 350 TL 2 (70km/h), Six Element System

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Elevation: Absorb 350 TL 2 (70km/h), Six Element System

Ownership: Lindsay Transport Solutions

Supplier: Safe Direction Pty Ltd
 5 Simpson Close, Smeaton Grange, NSW 2567
 Ph: (02) 4648 0394
 Website - <http://www.safedirection.com.au/>

Test Level: Accepted by Main RoadAs WA to NCHRP 350 test level TL 2.
 Accepted by Main Roads WA for use where design speed does not exceed 70km/h (i.e. posted speed up to 60km/h).

Design:

- Design to be in accordance with the Absorb 350® Installation and Maintenance Manual (July 2018) by ACP.

Note that Main Roads requires the speed stated in the Installation and Maintenance Manual (July 2018) to be taken as the design speed and not the posted speed.

Design Speed (km/h)	Number of Elements*	System Length (m)**
40	2	3.0
50	3	4.0
55	4	4.9
60	5	5.9
70-TL2	6	6.9

* Excluding nose piece

** From front of nose piece to front of barrier

- As the Absorb 350 is gating, a flat hazard free area of 22.5m long x 6m wide (measured from the front of the nose piece) should be provided.
- The system is comprised of two types of elements (Type A and Type B). The effective length of each element is 1000mm and the effective width is 610mm. The system is also comprised of a steel nose piece (PCB type) and a steel transition piece that connects to the barrier.
- All kerbs, islands and elevated objects greater than 100mm high that would be beneath, beside or less than 15m in front of the unit or along the length of the unit should be removed.

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Limitations:

- As the system is non-redirective if used to shield a hazard or a worksite under side impacts, a vehicle may penetrate the system.
- Shall not be used in a permanent application.
- Not to be used on longitudinal slopes or crossfalls greater than 10%

Installation and Maintenance Requirements:

The product shall be installed and repaired after impact in accordance with the Absorb 350®-Installation and Maintenance Manual (July 2018) by ACP.

Typical Parts to be Replaced After Impact:

Damaged cartridges (elements) and nose piece cover.

Parts Typically Re-Useable After Impact:

Some undamaged cartridges (elements), transition and steel nose piece.

References:

Relevant FHWA Approval Letters
Refer to website

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/listing.cfm

Code	Description
CC66	TL3 9 element when attached to permanent concrete barriers or to temporary concrete barriers with minimum length of segments of 6.1m.
CC66A	TL2 5 elements plus a nosepiece and reduction in minimum 6.1m length for temporary concrete barrier to 3m providing adapter shown on Drawing Number B000520 is used.