

Description

Based on Aluminum Honeycomb technology, the SC-MDB-V2 barrier (Side Impact Moving Deformable Barrier) is a new development barrier to be used in the C-NCAP 2025 side impact crashworthiness evaluations.

SC-MDB-V2 barrier is designed by CATARC, developed jointly with Argosy XAC Composite Materials LTD., and produced by Argosy XAC Composite Materials LTD., which is suitable for China's road conditions.

Technical Properties

The SC-MDB-V2 barrier consists of two parts: a Main Honeycomb Block and a Bumper Honeycomb Block. The Main Honeycomb Block comprises Six elements: three Upper and three Lower Element. The Bumper Honeycomb Block comprises one element.

Upper Element Honeycomb Block 1 & 3 Material

Aluminum 3003 - cell size 1" Progressive Crush strength according to CATARC Tech. Spec.

Upper Element Honeycomb Block 2 Material

Aluminum 3003 - cell size 1" Crush strength according to CATARC Tech. Spec.

Lower Element Honeycomb Block 4 & 6 Material

Aluminum 3003 - cell size 1/2" Progressive Crush strength according to CATARC Tech. Spec.

Lower Element Honeycomb Block 5 Material

Aluminum 3003 - cell size 3/4" Crush strength according to CATARC Tech. Spec.

Bumper Element Honeycomb Block Material

Aluminum 3003 - cell size 3/4" Crush strength according to CATARC Tech. Spec.

Back plate Element - Aluminum 5754-O, T3.0mm

Front Plate Element - Aluminum 5754-O, T=0.5mm

Lower Front Plate Element - Aluminum 5754-O, T=0.5mm

Bottom Front Plate Element - Aluminum 5754-O, T=0.5mm

Bumper Front Plate Element - Aluminum 5251 H22 or 5052 H32/H34, T=3.0mm

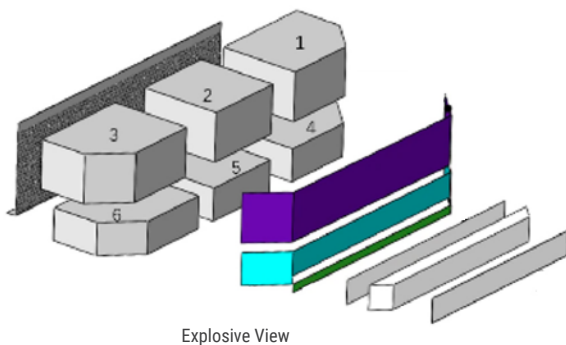
Bumper Rear Plate Element - Aluminum 5251 H22 or 5052 H32/H34, T=3.0mm

Adhesive

Two-part Polyurethane

A complete testing procedure for certification of aluminum honeycomb is performed in-house according to C-NCAP Side Impact Crashworthiness Evaluation, Moving Deformable Barrier Specification and in accordance with the procedure defined by CATARC.

The aluminum honeycomb blocks are processed such that the force deflection-curve when statically crushed is within the corridors defined for each block.



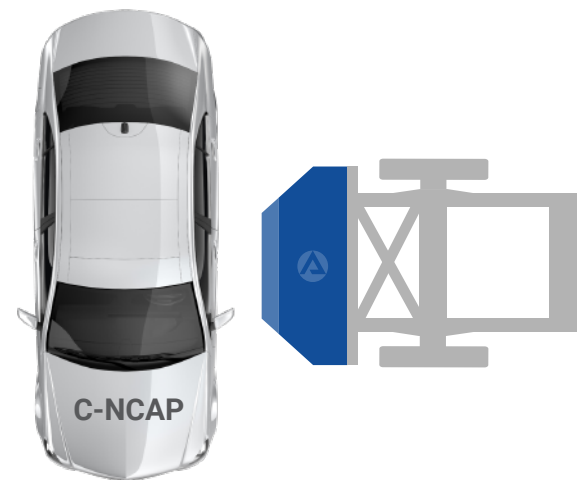
Certification

The SC-MDB-V2 CATARC barrier is developed for the C-NCAP 2025 Side Impact Crashworthiness Evaluation Crash Test Protocol - 2025.

Technical Specification

The AXAC SC-MDB-V2 CATARC side impact Moving deformable barrier are manufactured according to CATARC Moving Deformable Barrier Specification, in compliance with the C-NCAP 2025 Side Impact Crashworthiness Evaluation Crash Test Protocol - 2025

Side Barrier Impact Test



Quality

AXAC has an approved ISO9001-2015 Quality Management System, which demonstrates a commitment to supplying customers with the highest quality products and services.

Delivery

- + Individual cardboard crate
- + Anti-reflective paint as standard
 - Blue anti-reflective paint as standard
 - Light gray anti-reflective paint or customized painting available