

## Description

Based on Aluminum Honeycomb technology, the MDB-R95 barrier (EEVC WG13) is used by car manufacturers and test laboratories worldwide for the assessment of motor vehicle passenger protection in side impact collisions.

The side-impact test consists in a 950 kg trolley impact on the driver's side of the test vehicle. The trolley is equipped with MDB-R95 barrier, which aims at simulating the front of the impacting vehicle. The impact speed is defined according to the test specifications. ATD's dummies are used to evaluate the injuries in this type of crash.

## Certifications

The MDB-EEVC-R95 barrier is certified for occupant protections:

- + Europe – ECE-R95 am.3 & 96/27/EC
- + USA – FMVSS 214
- + Japan – TRIAS 47-3-2000
- + India – AIS-099/F
- + Australia – ADR 72/00
- + Korea – KMVSS 102

The MDB-EEVC-R95 barrier is certified for NCAP tests:

- + Euro-NCAP
- + USA-NCAP
- + Japan-NCAP
- + China-NCAP
- + Korea-NCAP
- + Australia-NCAP

## Technical Properties

The side barrier consists of 6 joined zones with total quantity of kinetic energy to be absorbed by the frontal barrier is between 42 and 48 kJ (EEVC-R95 amendment 3)

- + Blocks: W 500 x L 250
- + Lower blocks: D 500 after pre-crush
- + Upper blocks D 440 after pre-crush
- + Blocks are crushed by 10 +/- 2 mm
- + Cell Size: 19 mm +/- 10%
- + Alloy 3003 aluminum for the upper honeycomb
- + Alloy 5052 aluminum for the lower honeycomb

The MDB-EEVC-R95 barrier is certified for NCAP tests:

- + W 1500 x H 250 +/- 1 mm
- + Aluminum of series AlMg2 to AlMg3

Back Plate:

- + 3 mm aluminum sheet
- + Aluminum of series AlMg2 to AlMg3
- + Perforated

Adhesive:

- + Polyurethane

A complete testing procedure for certification of aluminum honeycomb is performed in-house according to EEVCC-R95 Amendment 3. The aluminum honeycomb blocks are processed such that the force deflection-curve when statically crushed is within the corridors defined for each of the six blocks.

# Mobile Deformable Barrier Side Impact ECE MDB-R95 Adv. 2000 - EEVC WG13



## Technical Specification

The AXAC MDB-R95 Advanced 2000 side impact deformable barrier are manufactured according to EEVC WG13's recommendation from Nov. 2001 in compliance with ECE R95 Amendment 3 and 96/27/EC

## Quality

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

## Delivery

- + Certificate of Conformity provided with the AXAC MDB-R95
- + Individual cardboard crate
- + Anti-reflective paint as standard
  - Blue anti-reflective paint as standard for Europe & Asia
  - Light gray anti-reflective paint standard for North America
  - Customized painting available

