

Description

Based on Aluminum Honeycomb technology, the NHTSA O-MDB barrier (Frontal Mobile Deformable Barrier Face v2013 - Research Moving Deformable Barrier RMDB v2015) is designed to be used in both Oblique and Small Overlap impacts. The barrier is a precision measurement tool to ensure repetitive and correlative results under similar test conditions and to reflect adequately the protective performance of a motor vehicle or item of motor vehicle equipment with respect to human occupants.

Technical Properties

The NHTSA Frontal Mobile Deformable Barrier Face v2013 deformable barrier is an assembly of two layers of deformable aluminium honeycomb core. Both deformable cores (300 mm thick in the impact direction T), designed to provide a constant load in depth, adhesively bonded together with different aluminium sheets forming a ready to use deformable barrier to be fixed on a moving trolley.

Rear Honeycomb Block Material - Aluminum 3003- cell size 6.35 mm
L950mm x W2200mm x T300mm
Crush strength of 1.711 MPa

Front Honeycomb Block Material - Aluminum 5052- cell size 6.35 mm
L950mm x W2200mm x T300mm
Crush strength of 0.724 MPa

Backing Sheet - aluminum 1050A H14
H1095 mm x W2400 mm x T3.0 mm

Intermediate Sheet - aluminum 5251 H24
H944 mm x W2196 mm x T0.5 mm

Contact Sheet - aluminum 1050A H14
H944 mm x W2196 mm x T1.5 mm

Upper cladding Sheet - aluminum 5754 H22
H1150 mm x W2200 mm x T0.8 mm

Lower cladding Sheet - aluminum 5754 H22
H1151 mm x W2200 mm x T0.8 mm

End Cap Sheet Left & Right - aluminum 5754 H22
H950 mm x W700 mm x T0.8 mm

Upper Strap Sheet Left & Right - aluminum 5251 H22
H1576 mm x W100 mm x T2.0 mm

Lower Strap Sheet Left & Right - aluminum 5251 H22
H11132 mm x W100 mm x T2.0 mm

Cover Sheet - aluminum 5754 H22
H872 mm x W630 mm x T0.8 mm

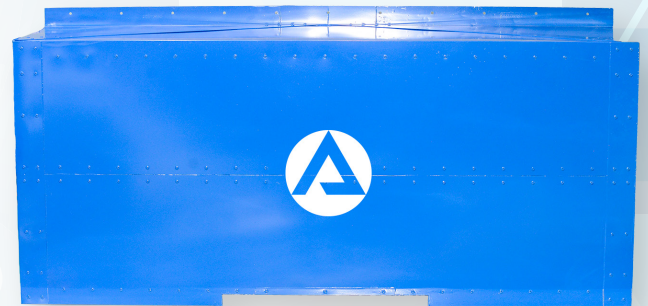
Blind Rivets
Aluminium Diameter 6.3mm

Adhesive
Two-part Polyurethane



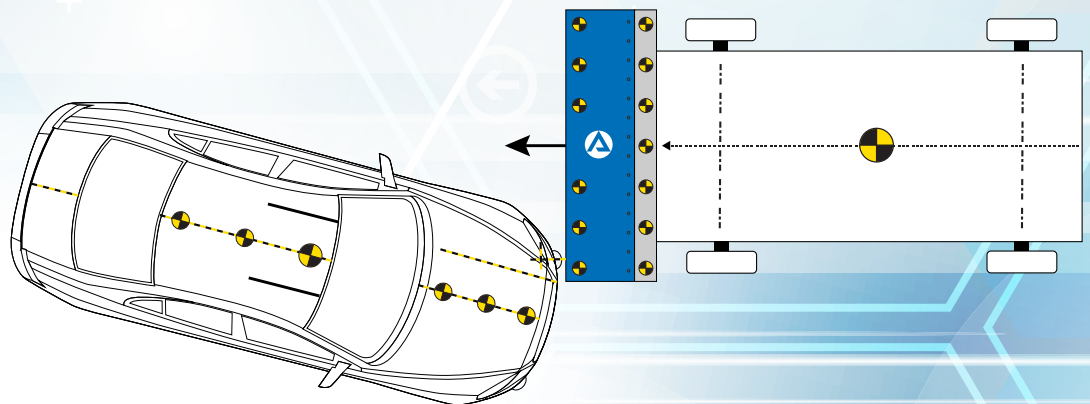
A complete testing procedure for certification of aluminum honeycomb is performed in-house according to Frontal Oblique and Small overlap Impact Crashworthiness Evaluation, NHTSA Test procedure, July 2015 and in accordance with the procedure defined in NHTSA TP-214D. The aluminum honeycomb blocks are processed such that the force deflection-curve when statically crushed is within the corridors defined for each of the 2 blocks.

NHTSA Oblique & Small Overlap Mobile Deformable Barrier



Certification

The NHTSA O-MDB barrier is designed for Frontal Oblique and Small overlap Impact Crashworthiness Evaluation, NHTSA Test procedure, July 2015.



Technical Specification

The AXAC O-MDB Frontal Mobile Deformable Barrier are manufactured according to NHTSA Frontal Mobile Deformable Barrier Face specification v2013 in compliance with Research Moving Deformable Barrier RMDB v2015 and Frontal Oblique and Small overlap Impact Crashworthiness Evaluation, NHTSA Test procedure, July 2015.

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
 - Light gray anti-reflective paint as standard
 - Blue anti-reflective paint or customized painting available