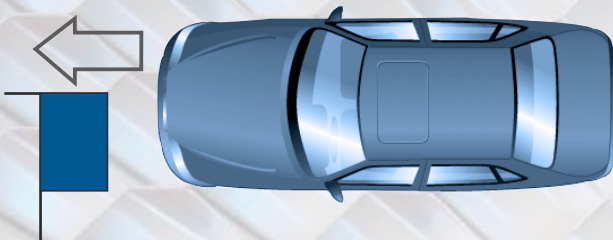


Description

The Frontal Offset Deformable Barrier (ODB) is a calibrated kinetic energy absorber used for full scale crash testing in automotive passive safety and crashworthiness field. This product is based on original works of the European Enhanced Vehicle-Safety Committee Working Group 11 (EEVC WG11).

Based on the Aluminium Honeycomb technology, this barrier is particularly used by car manufacturers and test laboratories worldwide for the assessment of motor vehicle passenger's protection in case of frontal offset collision according to following standards:

- UN ECE R94, European Directive 96/79/CE,
- European NCAP, Australian NCAP, Japanese NCAP,....



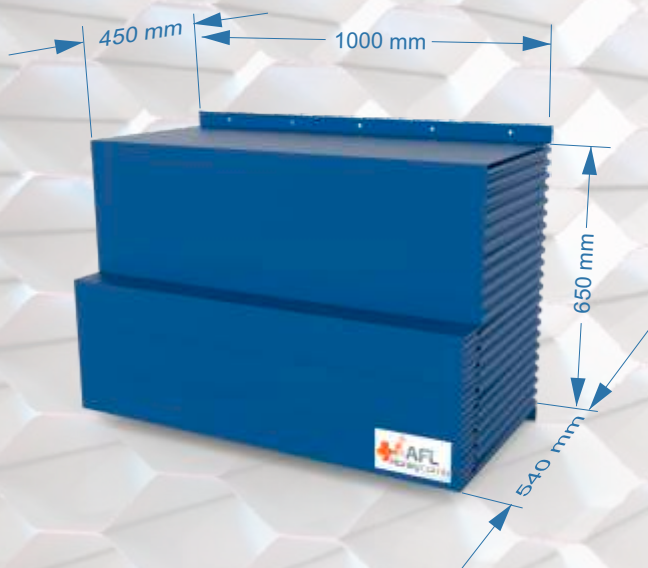
The offset frontal crash test simulates colliding with another vehicle. In this test, 40% of the test vehicle, on the driver's side, initially makes contact with a crushable aluminium barrier at the impact speed defined regarding standards requirements. A dummy measures the likely injuries in this type of crash.

The total quantity of kinetic energy to be absorbed by the barrier is between 108 and 120 kJ.

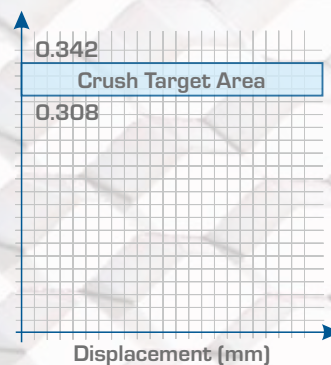
Technical properties

The barrier is composed of :

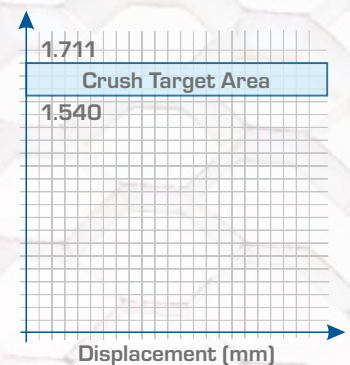
- Aluminium sheets,
- Honeycomb deformable core $\frac{3}{4}$ and $\frac{1}{4}$ cell size, 3003 alloy,
- Two-part polyurethane adhesive, painted blue,



Main Deformable Core



Bumper Deformable Core



The main deformable core crush strength is constant in depth and situated in the following target area : 0.342 MPa +0/-10%

The bumper deformable core is constant in depth and situated in the following target area : 1.711 MPa +0/-10%

Packaging and delivery

Packaging : Individual cardboard box : 1040 x 890 x 710 mm - 27,5 kg
Unit delivery under two weeks within European Union.
Blue anti reflective paint as standard , customized painting on-demand.
Certificate of conformity provided with the barrier.
Quality management : ISO 9001 : 2015 certified



Vehicles **Safety**, our daily **priority**

AFL Honeycomb STRUCTURES

22/24, route de Joigny
45320 Courtenay - France
Phone: +33(0)2 38 89 14 00
Fax: +33(0)2 38 89 12 30
www.afl-crashtestbarriers.com
Mail: contact@afl-honeycomb.com



World leader for technologies using
aluminium honeycomb structures

We have the solution that meets your passive
safety requirements... and if we don't, we'll create one!