

1. Component and Material Specifications

The external dimensions of the barrier are illustrated in Figure 1. The deformable element is formed from two layers of aluminium honeycomb, with an overall depth of 300mm, a height of 1000mm and a width of 2000mm.

The first (front) layer of the deformable element has a crush strength of 0.342MPa and is 150mm deep, the second (rear) layer has a crush strength of 1.711MPa and is 150mm deep. The two layers are joined with a muslin interlayer and there is to be no cladding on any faces other than the mounting face. The mounting face is the rear face of the 1.711MPa layer. The mounting face is to be clad with a 0.5mm aluminium sheet which protrudes a set distance of 40mm from the upper and lower faces of the barrier to provide mounting flanges for attachment to the load cell wall.

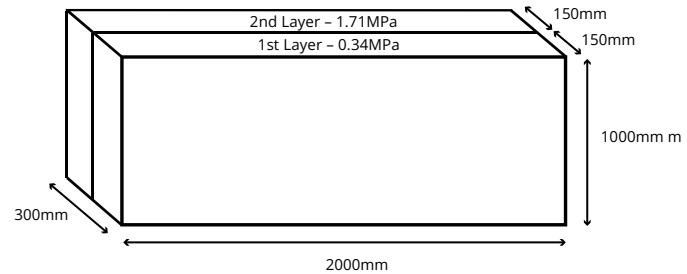


Figure 1: Full Width Deformable Barrier external dimensions

a. Front honeycomb layer

Dimensions

Height:	1000 mm -5mm / +15mm in direction of honeycomb ribbon axis (L)
Width:	2000 mm -5mm / +15mm (W)
Depth:	150 mm ± 1.0mm in direction of honeycomb cell axes (T)
Material:	Aluminium 3003
Cell size:	3/4 Inch
Crush strength:	0.342 MPa +0% -10%

b. Rear honeycomb layer

Dimensions

Height:	1000mm -5mm / +15mm in direction of honeycomb ribbon axis (L)
Width:	2000mm -5mm / +15mm (W)
Depth:	150mm ± 1.0mm in direction of honeycomb cell axes (T)
Material:	Aluminium 3003
Cell size:	1/4 Inch
Crush strength:	1.711MPa +0% -10%

c. Backing sheet

Dimensions

Height:	1080 mm ± 2.5 mm
Width:	2000 mm ± 2.5 mm
Thickness:	2.0mm ±0.1mm
Material:	Aluminium 5251/5052

d. Adhesive

The adhesive to be used throughout should be a two-part polyurethane.

2. Technical Specification

The ARGOSY FULLWIDTH barrier is manufactured according to EuroNCAP Full Width Deformable Barrier Face Specification and comply with Technical Bulletin 042, Version 1.0 July 2024 .

3. Quality

ARGOSY Honeycomb products are designed and manufactured according to the ISO 9001-2015 standard.

4. Delivery

Individual cardboard crate

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

Standard dimension: 2000 mm width / 1000 mm height
 other dimension width & heights to comply with specific vehicles tests on demand.

5. Certification

The ARGOSY FULLWIDTH barrier is manufactured according to EuroNCAP Full Width Deformable Barrier Face Specification and comply with Technical Bulletin 042, Version 1.0 July 2024.

