

This product complies to AS/NZS 3845:1999

# EAB | Energy Absorbing Bollards

Non Redirective Crash Attenuators



Outdoor Dining Protection



Workzone Protection



Asset Protection



Installation Services

Energy Absorbing Bollards are Non Redirective Crash Attenuators designed to SAVE LIVES.

TL0 rated - EAB's are engineered to arrest a 1600kg errant Motor Vehicle travelling at 60 kph and prevent it from entering a "no go" zone.

Protects Outdoor Diners, Pedestrians, Assets and Infrastructure.

A patented CARTRIDGE absorbs energy, safely decelerating the vehicle and thus protecting the occupants.

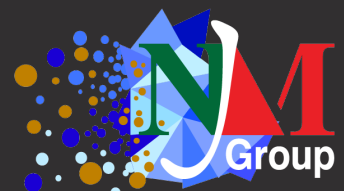
Provides a protective barrier without restricting pedestrian access.

Supplied & Managed by

**Australian Bollards  
Roadside Services Division**

Contact us

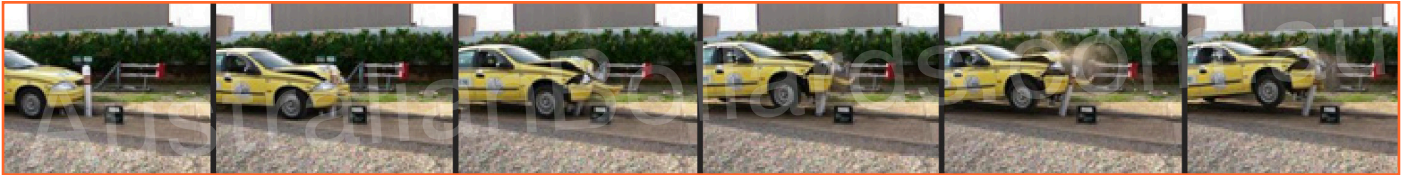
AustralianBollards.com.au  
+ 613 9459 3488



# EAB | Energy Absorbing Bollards

Non Redirective Crash Attenuators

## IMPACT ANALYSIS



### VEHICLE FRONTAL IMPACT INTO NON DEFORMING BARRIER/BOLLARD

Typical frontal impact kinematics of a vehicle involved in a collision with a solid object, like a Stobie Pole or Non Deforming Bollard the vehicle's rear axle lifts, while the front axle gets pushed down due to the inertial forces and position of the centre of gravity of the vehicle. Due to this rotation the front vehicle passengers get "pushed" towards the steering wheel and the dashboard, which often results in severe head and neck injuries or fatality.

### VEHICLE FRONTAL IMPACT INTO ENERGY ABSORBING BOLLARD (EAB)

The frontal impact kinematics into an energy absorbing bollard EAB is quite different from the kinematics of the vehicle impacting a solid barrier or another vehicle. The vehicle's front axle lifts up following the deformation of the EAB. Due to this rotation the front vehicle passengers get "lifted" up and get pushed away from the steering wheel and the dashboard. This will significantly reduce their injuries and risk of fatality.

AB-EAB - Installation Weights and Dimension				
	Bollard, Cartridge & Reo Cage	Bollard Only	Cartridge Only	Reo Cage Only
Diameter	460mm	153.5mm (15mm wall thickness)	355.6mm	460mm
Length	1870mm	1470mm	800mm	800mm
Weight	122.5kg	69.5kg	28.5kg	24.5kg

Supplied & Managed by

**Australian Bollards  
Roadside Services Division**

Contact us

AustralianBollards.com.au  
+ 613 9459 3488

