

Energy Absorbing Bollards

Energy Absorbing Bollards (EABs) are designed to save lives. They are used to prevent vehicles entering into 'no go' zones without restricting pedestrian access. The EABs are ideal for outdoor dining areas, highly populated pedestrian areas, footpaths, shared paths and other public spaces.

EABs can be used to protect high value assets, government buildings, airports and other commercial premises by preventing unauthorised vehicular access and provide protection against ram raids or out of control vehicles.



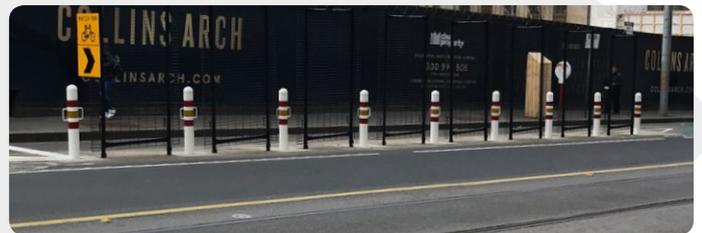
Pedestrian Safety



Outdoor Dining Protection



Asset Protection



Work zone Protection

Features & Benefits

- Significantly reduce injuries and risk of fatalities
- Protect and define valuable or high density areas
- Ideal for limited space applications
- Cost-effective compared to other crash rated solutions
- Coloured, removable & retractable options also available
- Simple and easy to install

How do EABs work?

Energy Absorbing Bollards comply to test criteria AS/NZS 3845:1999. They are classified as a non re-directive crash attenuator, engineered to arrest a 1600kg errant motor vehicle travelling at 60 kph. The patented CARTRIDGE absorbs energy, safely decelerating the vehicle and thus protecting the occupants, your asset or potentially your life.

For more information please call us now on 0800 785 744

(please turn over)

Impact Analysis

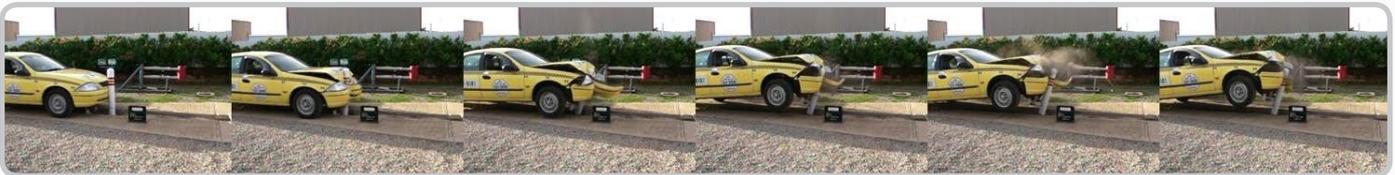
Vehicle Frontal Impact into a Non-Deforming Barrier/Bollard

When a vehicle is involved in a collision with a solid object, like a Power 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.



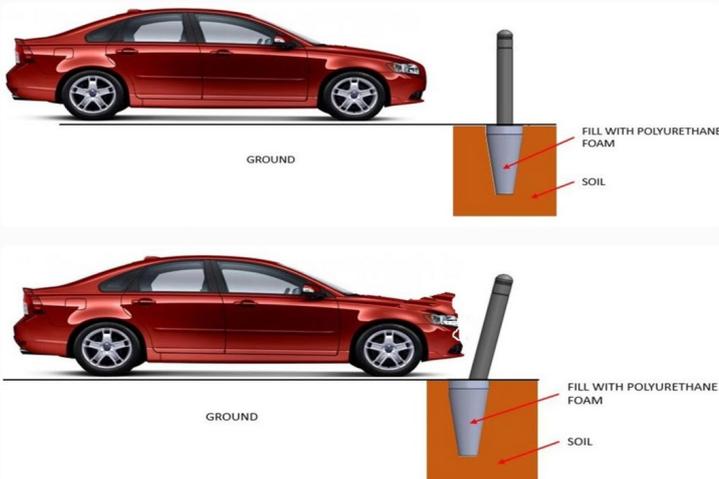
Vehicle Frontal Impact into a Energy Absorbing Bollard (EAB)

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 pushed away from the steering wheel and the dashboard. This will significantly reduce their injuries and risk of fatality.

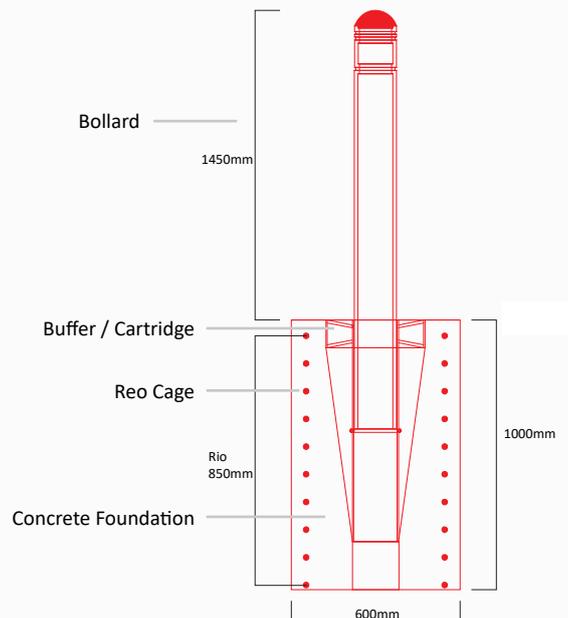


Visual Graphic: Car Schematics

The EAB has been designed to safely decelerate and arrest an out of control vehicle. EAB cartridge progressively deforms in impact and absorbs kinetic energy of the out of control vehicle.



Key Components & Measurements



A separate print out of the main components with dimensions is available upon request. Please call us on 0800 785 744 to request a copy.