

Leading Supplier and Installer
of Armco and BoPlan



Armco Barrier products
always in stock



BoPlan—Ready for impact



ECY
HAULMARK

ECY Armco is a division of ECY Haulmark Limited



Bolt down Armco with flexi corner

Our History

ECY Holdings Limited was founded in 1961, by brothers Eric and Colin Yarwood.

Today, the business remains a family affair, being owned and run by the sons of the firm's founders, cousins Richard and Phillip Yarwood.

The Armco installation side of the business continues to grow, with some high-profile contracts, for example refurbishing NCP car parks, upgrading barriers and fencing at Manchester Airport and many retail parks, such as Tesco.



Column protection with bespoke box section posts



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VEHICLE RESTRAINT SYSTEMS



Design and installation

We can design and tailor make our products to fit your needs. Just ask our experts!



- Reduces impact of collision
- Inexpensive
- Quick to install
- Adaptive to most locations
- Hard-Wearing
- Sacrificial

Whether you need us to simply supply equipment or provide a comprehensive installation service in addition, the ECY Armco team of experts are on hand to help. Our experience spans car parks, commercial and industrial buildings plus warehouses, airports, delivery bays and private roads. We will guide you through the process from start to finish. Use our simple steps guide below for what to do if you require supply only services or supply and installation.

Supply Only Services—How to Enquire or order and What Happens Next



Supply & Installation Services—How to Enquire or order and What Happens Next



All our quotations are free of charge

VEHICLE RESTRAINT SYSTEMS

Popular configurations

Floor mounted systems

Double Sided Armco Barrier



The double sided Armco barrier can take an impact from both sides. It is closed off by bull nose terminal and is perfect for splitting car park spaces.

Barrier on C Section posts



With the C section posts having a minimal base plate it is perfect for handrail systems and walk ways as the trip hazard is reduced.

Barrier on RSJ Posts



This type of barrier is the easiest way to protect your property. It is a rigid system suited for structures that cannot accommodate any deflection in the barriers. The image shows posts at 3200mm centres but can house posts at 1600mm and 800mm centres for when heavier duty protection is required.

Barrier on Box section



Double height Armco barrier is perfect for protection against high sided vehicles, enabling drivers to see clearly segregated areas such as footpaths and obstructions. This system is mounted on bespoke box section posts but can be achieved with most other posts.



fixings and baseplates for shallow embedment available. Resin fixings can be supplied.

VEHICLE RESTRAINT SYSTEMS



Popular configurations

Root fixed system

Barrier on Z Section posts

Armco barrier mounted on Z section dig in posts. This system is designed for glancing blows and is not suitable for head on collision zones. It is an economical and effective post system. The system has been a standard motorway post and crash barrier configuration for many years.



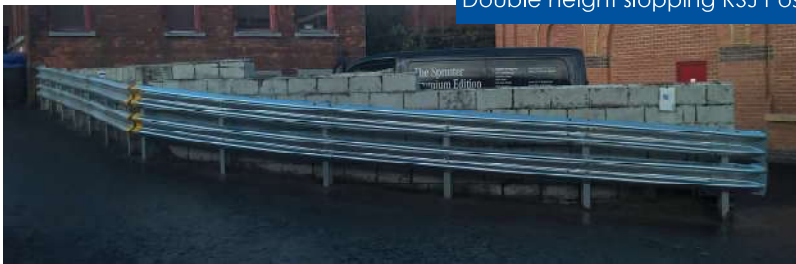
RSJ Posts with Handrail



RSJ posts are universal and can be made to fit any required sizes. The first image shows root fixed posts set at 1600mm centres with a added handrail system to protect against a fall from height.



Double height slopping RSJ Posts



This Double height rigid system protects the wall behind as it offers minimal deflection, it also easily adapts to the ramp without compromising on strength.

Diamond coring for tarmac and concrete available upon request.

VEHICLE RESTRAINT SYSTEMS

Popular configurations

Spring buffer systems

GH Spring Buffers



The simple GH system is designed for minimal 'bump' damage to vehicles and effectively absorbs impacts reducing the force that is directed to the anchor bolt, allowing them to be fitted to almost any concrete slab.

Barrier, Mesh and Handrail



Armco barrier, mesh and handrail is a perfect way to guard car park edges. Primarily used for multi storey car parks with drop levels the RB1X spring buffer system offers a anti-climb infill structure to prevent pedestrians gaining easy access over.

fixings and baseplates for shallow embedment available. Resin fixings can be supplied.

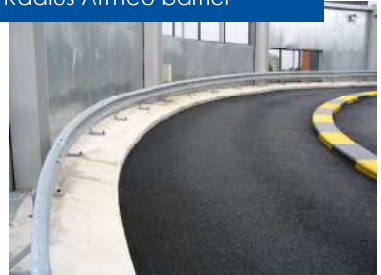


Double height on RB1X's



This is a simple cost effective way to protect tight spaced areas. The Armco barrier is cut to size and fitted to RB1X buffers with extensions on, to allow for double height to 1100mm. Push on end caps are then added to highlight the barrier ends.

Radius Armco barrier



We can radius our Armco barriers to curve down up to 6m if required. More than 50m is deemed to be straight.

Note page 19 explains what information we require to work out your radius.

VEHICLE RESTRAINT SYSTEMS



Armco products

Nuts & bolts	1600mm Beam	3200mm Beam	3200mm Flex Beam
			
45° External Mitre	45° Internal Mitre	90° External Mitre	90° Internal Mitre
			
Flexi Corner	Bull nose end	Convex 3200mm beam	Concave 3200mm beam
			
Fishtail end	Hi Vis Fishtail end	Pedestrian end	Hi Vis Pedestrian end
			
Push on end caps	Hi Vis Corner end	Handrail Extensions	Full height Mesh
			




VEHICLE RESTRAINT SYSTEMS





Most popular Posts

Below come in Surface mounted (Bolt down) and Root Fix (Dug into the ground)

C Section Post	RSJ Post	Z Section Post
 <p>These are our economy posts and are the cheapest in the range. The base plated version offers a small base plate that is perfect for handrail systems as the trip hazard is reduced.</p>	 <p>Our RSJ posts offer the most strength/support to barriers. The rigid design boasts reduced deflection when impacted.</p>	 <p>Z posts are the standard component for fixing Armco crash barrier into the ground. They offer a basic level of protection but likely won't withstand heavy impacts.</p>

RB1 Buffer	GH Buffers	RB1X Buffer
 <p>The Flexible spring buffer offers an economical footprint as only one anchor bolt is required. Sufficient free space must be available behind for barrier deflection.</p>	 <p>This buffer offers ideal protection where protecting building infrastructure as well as vehicles is important.</p>	 <p>The Flexible spring buffer offers an economical footprint as only one anchor bolt is required. The design also deflects the impact and spreads it out more evenly.</p>

Box Section	U Wall Bracket	Post Caps
 <p>Box section posts like the image are designed for corner protection or a change of direction. These are not standard posts and so all are made to measure to fit your requirements.</p>	 <p>This wall mounted bracket is perfect for areas where there is insufficient space to install surface/root fixed posts and can prevent extensive damage to walls adjacent to traffic areas.</p>	 <p>Rubber hi-visibility post caps offer a smooth, sharp edge free encasing that will provide you with a more resilient and versatile post.</p>

VEHICLE RESTRAINT SYSTEMS



Most popular Posts—Sizes

RB1X 100x14 Posts have been tested for public car parks at 1600mm centres to 150kn horizontal impact.

Not a certified system - As it is an off road system and with the variables involved e.g. vehicle size, vehicle speed, ground conditions, angle of impact etc. We cannot provide any impact figures for forces on our products.

Part number	Type	Overall Length	Sizes	Concrete
RSJ1.2	Rigid posts Root fixed	1200mm	UB127x76	300(L)x300(W)x500(D) 760mm Above FFL
RSJ1.5	Rigid posts Root fixed	1500mm	UB127x76	300(L)x300(W)x800 - 560(D) 760mm - 1000mm Above FFL
RSJ1.8	Rigid posts Root fixed	1800mm	UB127x76	300(L)x300(W)x1040 - 700(D) 760mm - 1100mm Above FFL
P1 (RSJ)	Rigid posts Surface mounted	560mm	UB127x76 Base250x330x12	Slab should be 150mm from the edges of the base plate & 500mm deep
P2 (RSJ)	Rigid posts Surface mounted	760mm	UB127x76 Base250x330x12	Slab should be 150mm from the edges of the base plate & 500mm deep
P610 (RSJ)	Rigid posts Surface mounted	610mm	UB127x76 Base250x330x12	Slab should be 150mm from the edges of the base plate & 500mm deep
P3 (RSJ)	Rigid posts Surface mounted	1100mm	UB127x76 Base250x330x12	Slab should be 150mm from the edges of the base plate & 500mm deep
CHP1200D (C section)	Rigid posts Root fixed	1200mm	150x75x5	300(L)x300(W)x500(D) 760mm Above FFL
CHP1500D (C section)	Rigid posts Root fixed	1500mm	150x75x5	300(L)x300(W)x800 - 560(D) 760mm - 1000mm Above FFL
CHP760 (C section)	Rigid posts Surface mounted	760mm	150x75x5 Base200x200x10	Slab should be 150mm from the edges of the base plate & 500mm deep
CHP1100 (C section)	Rigid posts Surface mounted	1100mm	150x75x5 Base200x200x10	Slab should be 150mm from the edges of the base plate & 500mm deep
RB1X	Spring buffer surface mounted	610	12x75	For use in multi story car parks
RB1X100x14	Spring buffer surface mounted	610	100x14	For use in multi story car parks
RB1X100x14x1100	Spring buffer surface mounted	1100	100x14	For use in multi story car parks
RB1	Spring buffer surface mounted	610	12x75	For use in multi story car parks
RB1x100x14	Spring buffer surface mounted	610	100x14	For use in multi story car parks
RB1x100x14x1100	Spring buffer surface mounted	1100	100x14	For use in multi story car parks

We can adapt/modify posts to fit your needs to so don't worry if you cannot see the size or type you require.



VEHICLE RESTRAINT SYSTEMS

BoPlan (Polymer safety Barriers)

FLEX IMPACT® Traffic Barriers are a form of impact protection specifically designed to protect machines and buildings from collisions with forklifts or other heavy vehicles. These impact protection materials are meant for high-speed transport environments or locations where heavy loads are moved or transported.



BoPlan (Polymer column protection)



Polymer column protectors are ideal for warehouses or other areas where columns



are susceptible to vehicle impact. BoPlan column protectors use the patented FLEX IMPACT® technology that allows the protector to flex on vehicle impact and return to its original shape, minimising the damage to the vehicle whilst still providing protection.

Polymer bollards are a flexible protective post which provides protection from impacts with vehicles whilst minimising damage to vehicle and bollard. We supply and install BoPlan bollards which use the patent FLEX IMPACT® technology that allows the bollard to flex on vehicle impact and return to its original shape, minimising the damage to the vehicle and bollard whilst still providing protection.

BoPlan (Polymer Bollards)



BoPlan (Polymer handrail systems)



Polymer handrails are great for separating pedestrian zones from traffic areas where impact is likely, providing a highly visible and physical barrier. BoPlan Polymer Handrails use FLEX IMPACT® technology to resist damage on impact and return to the original form reducing the need for repair whilst protecting pedestrians

VEHICLE RESTRAINT SYSTEMS



Berry Beam



GH Spring Buffers



RB1X Spring Buffers with bespoke handrail extensions



RSJ posts with handrail

Berry Beams are perfect on private and public car parks. They provide a neat and slim line barrier (only 100mm wide), that offers the same levels of protection as our Armco

Barrier Rail. When Berry Beam barriers are mounted on spring steel buffers or Flexi-Posts, the Berry Beam provides a more flexible barrier, moving back on impact and reducing damage to vehicles.

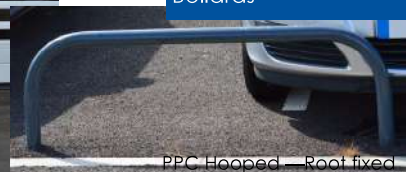
Bollards



PPC Bolt down bollard



Stainless steel—Root fixed



PPC Hooped — Root fixed



Root fixed & galvanized

All of our bollards come in a wide range of sizes and specifications with our steel and polymer bollards also available in various finishes. ECY Armco offer a cost effective solution to your

access and egress problems and will supply and fit any type of bollard you require. We offer bollards which are suitable for use in a variety of areas, such as around towns and city centres, warehouses, supermarkets, grassed/ landscaped areas, entrances and driveways.

VEHICLE RESTRAINT SYSTEMS



Open Box Beam (OBB)

Box beam barriers are designed to prevent large fleet vehicles and HGVs from damaging property or plant machinery due to impact. The open-box beam is usually floor mounted onto HDB Spring Steel Buffers, a 5mm wall thickness on the beam ensures maximum strength whilst the profile design limits damage to vehicles. Box beam barriers are perfect for all warehouse and industrial situations where heavy machinery is used, open-box beam solutions are an absolute must to ensure vehicles and property are appropriately protected.



HDB Buffers



HDB Buffers with handrail and mesh

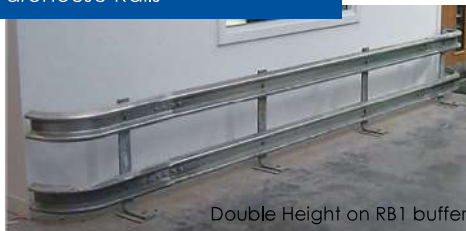


Square



Products

Warehouse Rails



Double Height on RB1 buffer

Double Height on RB1 buffer



ECY



Rail

Warehouse rails are ideal for use in warehouses and other areas where impact from light weight pallet movers/ trucks are likely. Warehouse rails are lighter duty than other safety barriers, such as Armco Barriers, but still provide protection for property.

Handrail and Keeklamp



Keeklamp handrail



GRP Handrail

Our handrails are tailor made to specification, come in various finishes and are available for supply only or supply and install. ECY Armco guardrails, handrails and keeklamp are perfect for when pedestrians need to be safely kept separate from vehicles or guided through areas with caution. Ideal for roadsides, crossings, warehouses and roof edge protection. For help in specifying your handrails please contact our technical team.

Note: Our Keeklamp has many fixings components. These are available to change/ modify existing handrails and are sold separately if required.



Roof edge protection



Armco barrier with handrail



Pedestrian Guardrail

VEHICLE RESTRAINT SYSTEMS



Fencing



High security

Paladin/mesh fencing



Palisade fencing



Wooden fencing

ECY Armco is a recognised commercial fence contractor, providing perimeter security fencing, gates and other access control products to business, industrial and government clients.

We furnish and install commercial fencing, gates and related products to fit all types of job requirements. From aesthetically pleasing wooden fencing and gates to maximum-security fencing projects.

Swing arm barrier



Access & Traffic control



Speed bumps and Wheel stops



Wheel guides

ECY Armco have a wide range of vehicle access and traffic control solutions, from Wheel stops and Speed Bumps to Barrier Gates and Vehicle height restriction barriers. Our dedicated team are on hand to help you get the traffic control solution you need, whether it is speed bumps or barriers we have the perfect solution for you.

VEHICLE RESTRAINT SYSTEMS



UK Wide deliveries and installations

Next day Delivery

We stock most Armco products and can have them delivered the very next day when ordered before 12pm with no order too big or too small!

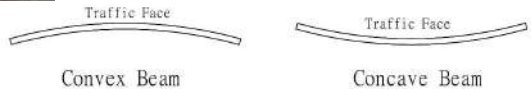


Collection

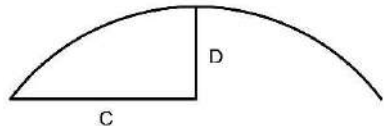
We are based in Warrington and welcome collections. Please advise our team on a pick up time and we can have your order all ready for when you arrive.

Manufacturing capabilities

Our dedicated fabrication team can tailor make our products or new products to suit your requirements. We are always eager to accommodate our clients needs.



We can work out your radius requirements from a drawing or measurements provided. We require:



C = Half the distance from end to end
D = Offset of the radius

Site assessments



We can advise on our Armco products from our office and, if required, visit your site to help assist with your Armco needs.



Polyester powder coating (PPC)

We can polyester powder coat (PPC) all of our steel products to almost any colour you want. Our Normal colour is a Highly visible Yellow (RAL1003). Having this done will also extend the life of our products and give a more quality feel and finish.





VEHICLE RESTRAINT SYSTEMS

Galvanised Coating information and maintenance

The galvanizing used on our products have been processed in accordance with the requirements specified in BS EN ISO 1461:2009.

Galvanizing is a hot dip chemical reaction of molten zinc onto steel substrate.

At the time of the process taking place the appearance will be one of the shiny silver, however, this will not last and over a period of several weeks this will dull off to a grey colour. This is the natural finish of the galvanized surface.

Note—Due to the nature of the galvanizing process some surface irregularities may occur on the surface of finished products. Although these will be finished flat, where possible, this will not be undertaken where it may breach the zinc coating. Some visual irregularities may therefore be present on galvanized products, including those with polyester powder coating—these do not compromise the durability and performance of either the product or the coatings in any way.

The cleaning of any exposed galvanized surfaces should be undertaken using:

1. A low pressure water wash e.g. hose pipe.
2. A soft brush, with warm soapy water, to remove any surface dirt.

Scourers, wire brushes and abrasive cleaners must not be used during cleaning as they may compromise the protective surface and result in premature rusting.

After cleaning ensure the product is rinsed thoroughly.

Galvanizing has the ability to “self-heal” any minor knocks or scratches.

However, there will be occasions whereby the coating has been damaged to base steel, a check should be made to establish if rusting has occurred. Based on this there are several repair paints on the market. In our experience, we have found two that give a satisfactory repair and finish for ongoing use. The two methods are either Galvafrid or Zinga with both being available in either a paste / brush application or an aerosol spray (please ask the supply only team if you require any).

Where rusting is present, then the area should be wire brushed / Sanded to bring back to a bright steel surface.

The system used for repair will state the required precautions that should be taken along with the application method, however, a build up of coating should be such that the thickness will be capable of giving ongoing protection as required. The coating thickness on renovated areas should be at least 100 microns.

Polyester powder coating maintenance

Pressure Cleaning. Pressure washing is likely the most efficient method of cleaning coated surfaces to remove dirt and grime. The pressure washer should be used on a low-pressure setting with filtered water. Don't use unfiltered tap water or groundwater.

If you use unfiltered groundwater for cleaning, it can leave stains on the metal surface. If the water contains fluoride, sulphur, iron oxide or chlorine, they can stain outdoor products.

Low pressure should be used for pressure-cleaning powder coated surfaces. If the pressure is strong enough to cause the metal surface to shift its position, it may also be strong enough to damage the finish.

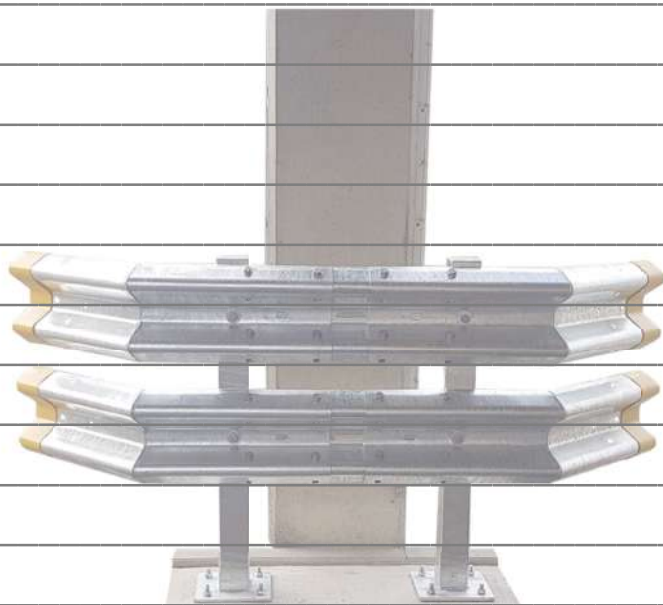
Use a Mild Soap and Water. All powder coated products should be cleaned with either a soft cloth or a brush, using a solution of mild soap and warm water. The best type of soap to use for this purpose is one that has emulsifiers that can break down the most common types of stains.

Exposed surfaces of powder coated products that are deemed the most critical should be cleaned regularly (on either a weekly or a bi-weekly schedule). These can be wiped down and rinsed with filtered water.

VEHICLE RESTRAINT SYSTEMS



Notes



Simple calculation: Length of barrier required (Meters) ÷ 3.2 = Quantity of barrier needed

VEHICLE RESTRAINT SYSTEMS



Our Armco Barrier is
perfect for:

- Pedestrian protection
- Car parks
- Warehouses
- Forklift truck areas
- Building Yards
- Drive thru's
- Embankments
- Traffic control

Key Benefits of ECY Armco

- Reduces impact of collision
- Inexpensive
- Quick to install
- Adaptive to most locations
- Hard-wearing
- Sacrificial
- Cost effective



Experience-Knowledge-Trust

- Walkways
- Work area segregation



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