ARMCO INSTALLATION GUIDE

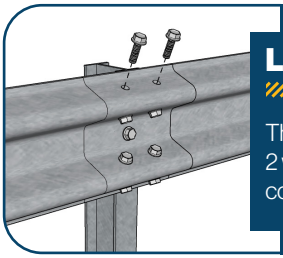
Armco-type crash barriers are the UK industry standard, used for off-highway protection at work premises across the country.

Renowned for it's unbeatable strength and resistance to impact, the modular design of this barrier makes it quick & easy to install.

Use this guide to learn the basic principles that are involved in assembling our crash barrier.

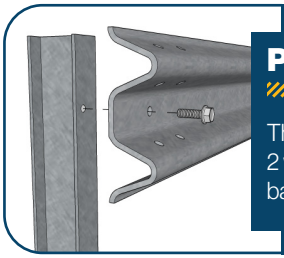
TOOLS REQUIRED

- 24mm Spanner for connection bolts
- Saw to cut metal beams to length. (if required)
- SDS drill if bolting post to floor.
- Digging tools & cement if concreting posts in.
- Combi drill to create additional fixing points.
- Tape measure
- Spirit level
- Clamps
- Mallet / Hammer



LAP BOLT

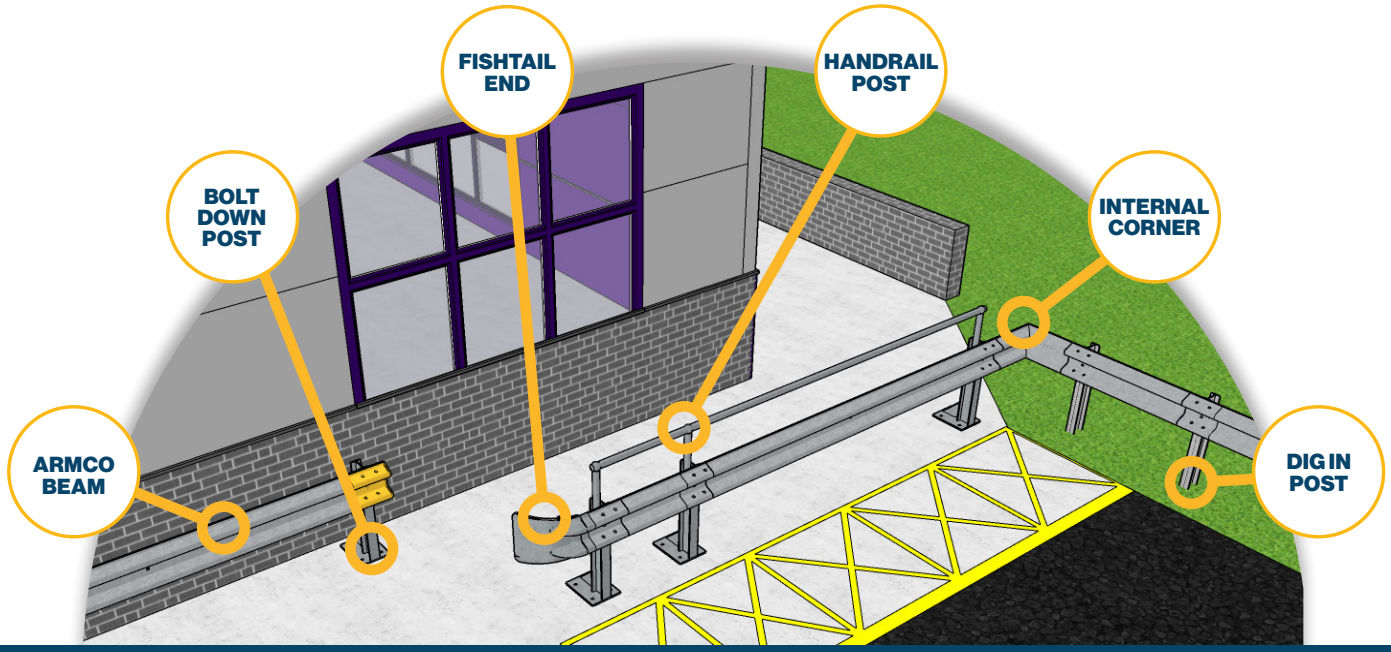
The Lap bolt is an M16 X 35mm bolt with 2 washers & nut. Used for joining beams, corners & end components together.



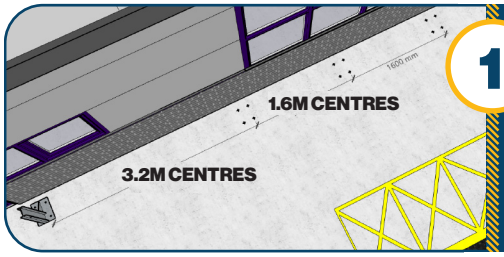
POST BOLT

The Post bolt is an M16 X 50mm bolt with 2 washers & nut. Used to fix the crash barrier sections to the posts.

CRASH BARRIER EXAMPLE



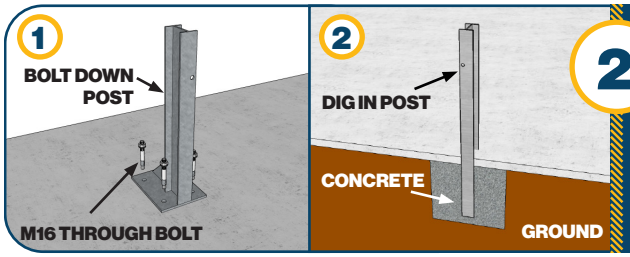
INSTALLATION PROCEDURE



1 MEASURE & MARK POST SPACINGS

Depending on traffic type, measure and mark locations for the posts to be fixed as below spacings -

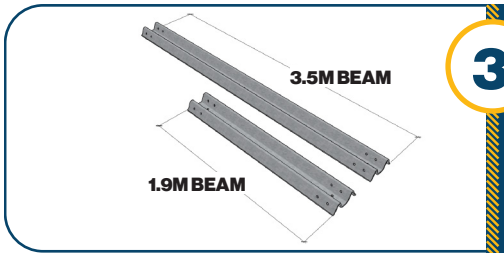
- **3.2m centres** - This is standard post spacing for providing standard level of protection.
- **1.6m centres** - Closer post spacing for locations where HGV operate, ensuring greater protection.



2 INSTALL POSTS

Next install the posts, there are 2 methods for post fixing.

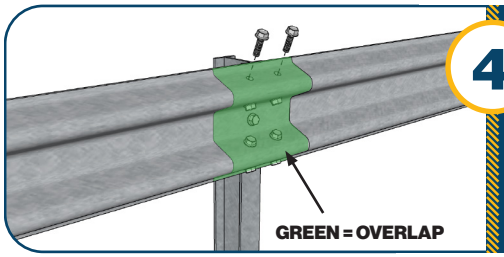
1. **Bolt Down Post** - Simply fasten to the floor with **M16 Throughbolts** or **M16 stud anchors** to ensure a secure, robust fix.
2. **Dig In Post** - Simply **concrete** the post **600mm into ground** for a secure fix.



3 FIT THE ARMCO BEAMS

Once the posts are installed, its time to fit the beams. There are 2 standard beam lengths (as shown) which are simply attached to the post with the **POST BOLT** (See diagram on page 1).

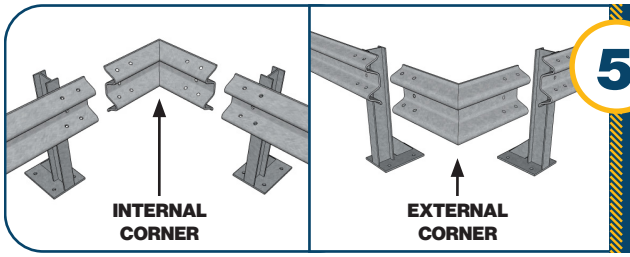
Simply bolt the **beam** onto the posts with the M16 **Post Bolt** fixing to hold the Crash Barrier securely in position.



4 CONNECTING THE BEAMS

Each beam is connected by overlapping the 8 fixing points at the end (as shown in green).

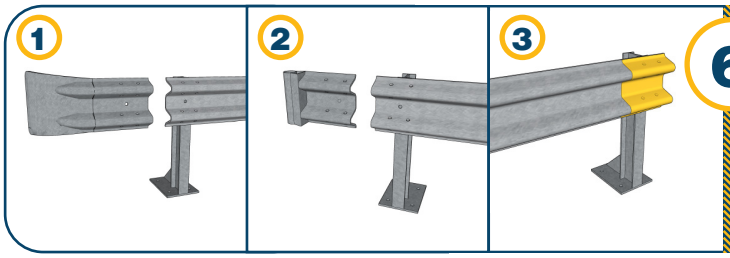
Insert the **8 x LAP Bolts** and tighten to create a strong, secure barrier. Make sure that there is a washer each side of the beam connection. It is best practice to have a post at each connection. Repeat for all connections



5 GOT A CORNER?

There are various corner options to suit your project, from standard 90° to flexible corners. These all follow the same procedure for fitting as shown in step 4 above.

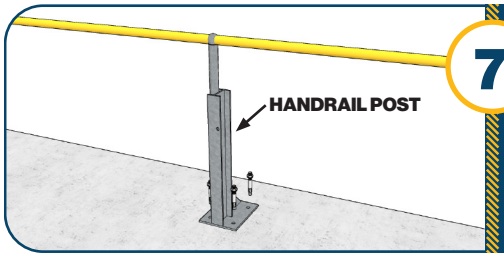
It is best practice, to have a post each side of a corner to make sure the barrier is strong.



6 FITTING THE ENDS

Installing your chosen Armco barrier end is quick & easy -

1. Fishtail End - Fit with **8 x LAP Bolts** as shown in step 4. Available in Galvanised Steel or Yellow plastic, both are fitted the same way.
2. Pedestrian End - Fit with **8 x LAP Bolts** as shown in step 4.
3. Plastic End - Fit by sliding the **yellow plastic end** over the beam.



7 FITTING ARMCO BARRIER WITH HANDRAIL

The Armco Handrail post is installed the same way as options shown in step 2, however this post version comes with a ball stanchion to allow for a 1100mm high handrail.

To Fit the handrail, slide the **48mm out diameter tube (Ezi Klamp Size 4 tube)** through the stanchion ball and secure by fastening the **grubscrew**. Use **179** collars & **149** joiners as required.